Yahoo Group Archive: TS-520_820_530_830 (2006)

Yahoo Group summary: KENWOOD TS-520_820_530_830

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2006-01-01 through 2006-12-31

Source WARC: ts-520_820_530_830.d0kBnMS.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-04-17T04-04-28Z-8e1d1d

Messages included in this PDF: 5554

Messages omitted as spam from this PDF: 1

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

6264. Re: Hello All

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-01 00:23:53 UTC
From: james27613
Topic: 6255 Message: 6264

hi trace,

here are a few links to get you started
all no cost to use.

www.eham.net massive ham site
www.arrl.org ARRL Official site
www.cebik.com massive antenna info site

73 ke4drn james

Happy New Year and many new qso's to all

6265. Re: [TS-520_820_530_830] What About a TS-930?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-01 18:04:28 UTC
From: Bill K0ZL
Topic: 6262 Message: 6265

Hi again, Kevin! Happy New Year.

The 930 was the first all-solid-state, contest quality radio that Kenwood put out. It was in the same time arena as the TS-430.

It uses 29volt finals and drivers, the latter of which are getting rare and expensive. The AVR (power supply regulator) unit is another weak point, and it's rare to find a 930 that is relatively unscathed in that area. For these reasons I don't recommend the 930 even as a backup.

The 940 is a better choice; the AVR unit is easier to get to, and the circuit boards are much easier to remove and replace should the need arise. But again, it's hard to find one in near-mint condition these days; I would not buy one in any other condition than near-mint.

I would recommend that you look at a 12v radio as a backup, simply because we all need some capability to operate off batteries should the need arise. Take a look at the TS-430, or if you want a big format rig, look at the TS-850S. These are both quite repairable and parts are by and large still available.

If you find a TS-440SAT that is in really good shape and does not have the all-dots syndrome, that is also a good buy for the shack.

Vy 73!

Bill K0ZL

--- Kevin der Kinderen <kevin@...> wrote:

> I notice this group doesn't cover this radio but I
> think it's from the same
> timeframe. Is this radio different from the 520-830?
> I'm considering getting
> one to add to my 830-based shack as a backup.
>
>
>
> Does anyone have experience with the 930 that they
> can share? (off-list if

> it's not appropriate on this list)
>
>
>
> Is there another group that covers the 930?
>
>
>
> 73 and Happy New Year!
>
> Kevin - K4VD
>
>
>
> Kevin der Kinderen
>
> http://kj4qf.net/
>
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

When in doubt, MODIFY...

6266. Re: [TS-520_820_530_830] Funny goings on with TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-02 21:33:50 UTC
From: catboat15@aol.com
Topic: 6266 Message: 6266

What are the symptoms of blown finals?
When I tuned up my 520 this afternoon, got all the readings according to the manual OK. Except when I had the meter in RF reading I saw no response, but my antenna tuner meter said I was putting out. Afraid to keep it going in that manner so switched off. This was with both a dummy load and my random length wire (out in the rain).
Should I look for problem in the meter switch, ignore the problem???
This was on CW mode.

John Meacham
in the high desert of California
73
de k6suf

[Non-text portions of this message have been removed]

6267. Re: [TS-520_820_530_830] Funny goings on with TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-02 22:35:22 UTC
From: Bert Morton
Topic: 6266 Message: 6267

The sensitivity of the RF reading is adjustable via the RF voltage control on the side of the 520. See Section 3 of the operating manual.
----- Original Message -----
From: catboat15@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 02, 2006 4:33 PM
Subject: Re: [TS-520_820_530_830] Funny goings on with TS-520

What are the symptoms of blown finals?
When I tuned up my 520 this afternoon, got all the readings according to the manual OK. Except when I had the meter in RF reading I saw no response, but

a.. .

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.10/218 - Release Date: 1/2/2006

[Non-text portions of this message have been removed]

6268. Re: [TS-520_820_530_830] TS530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 12:55:18 UTC
From: Richard Harris
Topic: 6261 Message: 6268

John,

I apologise for mentioning what may be obvious, but sometimes things are only obvious with hindsight. Check that the narrow/wide filter button isn't in the narrow position. On SSB, if you don't have the narrow SSB filter fitted, then the IF path is open and the only signal feed-through is via the capacitance of the filter switching diodes. On my 530S, the calibration signal can be just heard down in the noise with the switch in the narrow position and SSB selected. You might also hear a local station, but the front end may then be overloaded hence the poor audio.

If you do not have a CW filter fitted then you will have the same symptoms on CW.

A failed filter switching diode is another possibility, or the filter switching voltage not getting to this part of the circuit.

Richard

At 19:11 31/12/2005 +0000, you wrote:
>Hello and Happy New Year to all. Nice to find out about this group,
>I have already spoken with a few people but just in case anyone has
>anything else to add it would be appreciated. I've had the 530S for
>probably 25 years now, it sat idle for quite a few years but in the
>last 4 years I became more active. To say this radio can take abuse
>is to say the least, for a few years I couldn't figure out why it
>wasn't tuning up right into the dummy load. I had built the
>Heathkit "Cantenna" back in the early 70's and have used it ever
>since but, it just sat down under the table and I never gave it a
>second thought until I started operating PSK and after one very long
>session I couldn't beleive the amount of heat coming out of the
>radio! To make it short, one side of the connection into the
>Cantenna was open, I have no idea what I was tuning up into. That
>being said, I operated in both SS-CW and phone, CQ-WW and the ARRL
>10m contest, CW was fine but I could never get a good audio report on
>phone. As of this week I turn the radio on and all I get on receive
>is the "hissing" noise, all bands. I tried 2 different antenna's
>with the same results. I can tune up fine, the ALC meter responds to
>the tune up but the meter doesn't move at all in rec. I put on the
>CAL and I can hear the tone but it is below the noise and the meter
>doesn't move. The only time I saw meter movement was when my next
>door neighbor, K2TV, came on the air, well really into his dummy
>load, and the meter responded but the audio was not good at all.
> I cleaned both relays with what we use to call in the phone
>company "switchman in a can" or Trichlorotrifluoroethane, it use to
>do a heck of a job cleaning out the relays in the old crossbar

>relays, but that didn't help.
> I spoke with Ken in Fla. and I will send the baby down to him,
>Drake use to offer the same thing, send the radio to them and they
>would install all the mods, clean and retube it and send it back.
>The XYL was actually going to let me buy another radio, I still might
>do it but I wasn't too happy with the reviews on the 570, but I did
>notice one comment that if you want a $10,000 radio, buy one! Like
>someone buying a Chevy and expecting a Caddy! I used one of the
>club's during field day and I was not too pleased with the results on
>CW, had to play around with the DSP filters too much and like others
>say, "you can't beat the quality of the old notch filters", and guess
>after over 25 years I'm addicted to the 530S. 73 John
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,

York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6269. Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 13:19:51 UTC
From: t millburne
Topic: 6249 Message: 6269

Hello Ken

i wanted to thank you for the mic wiring for the shure 444 to my 950.
maybe you can tell me if there is a better mic for this rig i have now tried a Heil pr-20 and people said its ok nothing great and the 444 they say is not at all good real weak audio reports.i was wondering if you might have any suggestions a couple operators said a D-104 but i heard they dont work well with kenwoods.

thanks and 73s
Tim

Ken Winterling <wa2lbi@...> wrote:
Tim,

Here is the 444 data sheet:
http://www.shure.com/pdf/discontinued/444.pdf

Here is the Kenwood 8 pin mic jack wiring (this info should be in the '950SD manual):
1- mic hi
2- PTT
3- frequency down
4- frequency up
5- +8VDC
6- n/c
7- mic lo (shield)
8- PTT ground

If your your 444 has the original factory 2 conductor cable with a black and white wire inside the shield then the black wire is the mic hi and the white wire is for PTT. The shield is common to both. If that is the case you would wire the connector as follows:

Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic lo) and 8 (PTT ground)

While you are at it you should remove the factory jumper inside the base of the 444 that shorts the mic element when the PTT bar is released (up). With the jumper in place you need to flip the VOX switch under the mic AND depress/lock the PTT bar to use VOX. If you remove the jumper you can leave the switch in the normal/PTT position and use VOX without moving the switch or the PTT bar. This also gives you the ability to over ride the VOX with the PTT if necessary.

Good luck. Let me know if I can be of further assistance.

Ken, WA2LBI

On 12/28/05, tmllbrn <tmllbrn@...> wrote:
> Hello can any one in the group give me the mic wiring for a shure 444
> to a kenwood ts-950SD.
>
> thanks and have a happy new year
> tim
> W3TDM
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Yahoo! Shopping
Find Great Deals on Holiday Gifts at Yahoo! Shopping

[Non-text portions of this message have been removed]

6270. Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 13:48:03 UTC
From: w3iz
Topic: 6249 Message: 6270

What kind of audio are you looking to achieve, Tim?

The PR 20 should provide some nice sound. A Heil gold line would be a good performer as well. The PR-20 may require some outboard processing.

An amplified D-104 may overdrive it. The D-104 has a response curve very similar to the Heil Gold Line. They have always sounded good on the right radio.

If you are looking for wide audio, the 950 may have some limitations.

Looking for Hi-Fi type audio? There is a group just for that and they will answer all Q's about the TS-950 and Hi-Fi.
73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "t millburne" <tmllbrn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 03, 2006 8:19 AM
Subject: Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

> Hello Ken
>
> i wanted to thank you for the mic wiring for the shure 444 to my 950.
> maybe you can tell me if there is a better mic for this rig i have now
> tried a Heil pr-20 and people said its ok nothing great and the 444 they
> say is not at all good real weak audio reports.i was wondering if you
> might have any suggestions a couple operators said a D-104 but i heard
> they dont work well with kenwoods.
>
> thanks and 73s
> Tim
>
> Ken Winterling <wa2lbi@...> wrote:
> Tim,
>
> Here is the 444 data sheet:
> http://www.shure.com/pdf/discontinued/444.pdf
>
> Here is the Kenwood 8 pin mic jack wiring (this info should be in the
> '950SD manual):
> 1- mic hi
> 2- PTT
> 3- frequency down
> 4- frequency up

> 5- +8VDC
> 6- n/c
> 7- mic lo (shield)
> 8- PTT ground
>
> If your your 444 has the original factory 2 conductor cable with a
> black and white wire inside the shield then the black wire is the mic
> hi and the white wire is for PTT. The shield is common to both. If
> that is the case you would wire the connector as follows:
>
> Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic lo) and
> 8 (PTT ground)
>
> While you are at it you should remove the factory jumper inside the
> base of the 444 that shorts the mic element when the PTT bar is
> released (up). With the jumper in place you need to flip the VOX
> switch under the mic AND depress/lock the PTT bar to use VOX. If you
> remove the jumper you can leave the switch in the normal/PTT position
> and use VOX without moving the switch or the PTT bar. This also gives
> you the ability to over ride the VOX with the PTT if necessary.
>
> Good luck. Let me know if I can be of further assistance.
>
> Ken, WA2LBI
>
>
> On 12/28/05, tmllbrn <tmllbrn@...> wrote:
>> Hello can any one in the group give me the mic wiring for a shure 444
>> to a kenwood ts-950SD.
>>
>> thanks and have a happy new year
>> tim
>> W3TDM
>>
>>
>>
>>
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>>
>>

>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft supply
>
> ---
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
>
>
>
> ---
> Yahoo! Shopping
> Find Great Deals on Holiday Gifts at Yahoo! Shopping
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

6271. Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 14:10:54 UTC
From: Ken Winterling
Topic: 6249 Message: 6271

Tim,

You are correct, the Astatic D-104 would not be a good choice. It needs to "see" a much higher impedance than the TS-950 presents. It will not sound very good.

I have never used a Heil mic so I can't offer any personal comments but many folks are using them. The Shure 444 is known as a decent mic. Have you tried it on other rigs and/or had another operator use it? Maybe the mic element is defective and/or your voice characteristics are not compatible with the frequency response of the mic. Some guys sound better on one mic compared to another. Does the '950 have any transmit audio tailoring? If so, did you try making any adjustments while speaking with another station?

I don't own a '950 but on my TS-940SAT I have used all of the following mics and have not received negative reports (that doesn't mean the audio was good, just that nobody complained!). They are listed in no particular order. I do not use any audio gear between the mic and the radio.

Astatic 10-DA
Astatic DN-500
Electro-Voice 664
Shure 404B (hand mic)
Shure 404C (hand mic)
Shure 444D
Shure 520SL
Kenwood MC-60

I'm sure there are TS-950s* users on this list who would be of more assistance as they could give you specifics on their stations.

Good luck & 73,

Ken, WA2LBI

On 1/3/06, t millburne <tmllbrn@...> wrote:
> Hello Ken
>
> i wanted to thank you for the mic wiring for the shure 444 to my 950.
> maybe you can tell me if there is a better mic for this rig i have now tried a Heil pr-20 and people said its ok nothing great and the 444 they say is not at all good real weak audio reports.i was wondering if you might have any suggestions a couple operators said a D-104 but i heard they dont work well with kenwoods.
>
> thanks and 73s

> Tim
>
> Ken Winterling <wa2lbi@frontiernet.net> wrote:
> Tim,
>
> Here is the 444 data sheet:
> http://www.shure.com/pdf/discontinued/444.pdf
>
> Here is the Kenwood 8 pin mic jack wiring (this info should be in the
> '950SD manual):
> 1- mic hi
> 2- PTT
> 3- frequency down
> 4- frequency up
> 5- +8VDC
> 6- n/c
> 7- mic lo (shield)
> 8- PTT ground
>
> If your your 444 has the original factory 2 conductor cable with a
> black and white wire inside the shield then the black wire is the mic
> hi and the white wire is for PTT. The shield is common to both. If
> that is the case you would wire the connector as follows:
>
> Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic lo) and
> 8 (PTT ground)
>
> While you are at it you should remove the factory jumper inside the
> base of the 444 that shorts the mic element when the PTT bar is
> released (up). With the jumper in place you need to flip the VOX
> switch under the mic AND depress/lock the PTT bar to use VOX. If you
> remove the jumper you can leave the switch in the normal/PTT position
> and use VOX without moving the switch or the PTT bar. This also gives
> you the ability to over ride the VOX with the PTT if necessary.
>
> Good luck. Let me know if I can be of further assistance.
>
> Ken, WA2LBI
>
>
> On 12/28/05, tmllbrn <tmllbrn@...> wrote:
> > Hello can any one in the group give me the mic wiring for a shure 444
> > to a kenwood ts-950SD.
> >
> > thanks and have a happy new year
> > tim
> > W3TDM
> >

> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft supply
>
> ---
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@...m
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
>
>
>
> ---
> Yahoo! Shopping
> Find Great Deals on Holiday Gifts at Yahoo! Shopping
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>

>
>
>
>
>

6272. R: [POSSIBILE SPAM]Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 14:17:35 UTC
From: P. Coppin
Topic: 6249 Message: 6272

I have a TS-940. I use it from 1994.

My voice has too many low tones and Shure444 has good sound but not so good for my voice during DX calls. For several years a tested lots of microphones: Shure444, MC-60, HC4 Heil Sound key element and HC5 key element. After long time tests I have chosen the HC5 element - I mounted it inside a MC-50 body. I love the 444 body so I use it with a Yaesu FT-902 mic cartridge (GREAT sound) connected to that rig.

73

Paolo i8ixo

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di t millburne
Inviato: martedì 3 gennaio 2006 14.20
A: TS-520_820_530_830@yahoogroups.com
Oggetto: [POSSIBILE SPAM]Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Hello Ken

i wanted to thank you for the mic wiring for the shure 444 to my 950. maybe you can tell me if there is a better mic for this rig i have now tried a Heil pr-20 and people said its ok nothing great and the 444 they say is not at all good real weak audio reports.i was wondering if you might have any suggestions a couple operators said a D-104 but i heard they dont work well with kenwoods.

thanks and 73s
Tim

[Non-text portions of this message have been removed]

6273. Re: [TS-520_820_530_830] Funny goings on with TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 16:45:50 UTC
From: Bill K0ZL
Topic: 6266 Message: 6273

There is a pot in the back of the rig, for the RF
meter setting. Simply rotating it back and forth
should bring the reading back. They do get dirty.

bill

--- catboat15@... wrote:

> What are the symptoms of blown finals?
> When I tuned up my 520 this afternoon, got all the
> readings according to the
> manual OK. Except when I had the meter in RF reading
> I saw no response, but
> my antenna tuner meter said I was putting out.
> Afraid to keep it going in that
> manner so switched off. This was with both a dummy
> load and my random length
> wire (out in the rain).
> Should I look for problem in the meter switch,
> ignore the problem???
> This was on CW mode.
>
>
> John Meacham
> in the high desert of California
> 73
> de k6suf
>
>
> [Non-text portions of this message have been
> removed]
>
>

When in doubt, MODIFY...

6274. Re: [TS-520_820_530_830] Funny goings on with TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 16:49:45 UTC
From: Bill K0ZL
Topic: 6266 Message: 6274

Bert is right; the 520 adjustment is on the left side.
530-820-830 is on the back panel, upper left, as you
face the back of the rig.

bill

--- Bert Morton <hamradioguy@...> wrote:

> The sensitivity of the RF reading is adjustable via
> the RF voltage control on the side of the 520. See
> Section 3 of the operating manual.
> ----- Original Message -----
> From: catboat15@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 02, 2006 4:33 PM
> Subject: Re: [TS-520_820_530_830] Funny goings on
> with TS-520
>
>
> What are the symptoms of blown finals?
> When I tuned up my 520 this afternoon, got all the
> readings according to the
> manual OK. Except when I had the meter in RF
> reading I saw no response, but
>
> a.. .
>
>
>

>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.10/218 -
> Release Date: 1/2/2006
>
>
> [Non-text portions of this message have been
> removed]

>
>

When in doubt, MODIFY...

6275. Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 17:08:56 UTC
From: Bill K0ZL
Topic: 6249 Message: 6275

Tim, the MC-50 and MC-60 work very well; the 50 will
require an 8 pin plug, it usually comes with a 4 pin.

I use an Astatic 10DA mic on my 850 and get very good
audio reports. That is the chrome bullet head mic that
also fits on the UG-8 stand. Generally you want to use
the 10DA for SSB and the D104 for AM work with the
older boat anchor rigs. The D104 to me sounds too
tinny for either however.

bill

--- t millburne <tmllbrn@...> wrote:

> Hello Ken
>
> i wanted to thank you for the mic wiring for the
> shure 444 to my 950.
> maybe you can tell me if there is a better mic for
> this rig i have now tried a Heil pr-20 and people
> said its ok nothing great and the 444 they say is
> not at all good real weak audio reports.i was
> wondering if you might have any suggestions a couple
> operators said a D-104 but i heard they dont work
> well with kenwoods.
>
> thanks and 73s
> Tim
>
> Ken Winterling <wa2lbi@...> wrote:
> Tim,
>
> Here is the 444 data sheet:
> http://www.shure.com/pdf/discontinued/444.pdf
>
> Here is the Kenwood 8 pin mic jack wiring (this info
> should be in the
> '950SD manual):
> 1- mic hi
> 2- PTT
> 3- frequency down
> 4- frequency up
> 5- +8VDC
> 6- n/c
> 7- mic lo (shield)
> 8- PTT ground

>
> If your your 444 has the original factory 2
> conductor cable with a
> black and white wire inside the shield then the
> black wire is the mic
> hi and the white wire is for PTT. The shield is
> common to both. If
> that is the case you would wire the connector as
> follows:
>
> Mic black wire (mic hi) to Kenwood plug pin 1 (mic
> hi)
> Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> Mic shield (mic lo and PTT ground) to Kenwood plug
> pins 7 (mic lo) and
> 8 (PTT ground)
>
> While you are at it you should remove the factory
> jumper inside the
> base of the 444 that shorts the mic element when the
> PTT bar is
> released (up). With the jumper in place you need to
> flip the VOX
> switch under the mic AND depress/lock the PTT bar to
> use VOX. If you
> remove the jumper you can leave the switch in the
> normal/PTT position
> and use VOX without moving the switch or the PTT
> bar. This also gives
> you the ability to over ride the VOX with the PTT if
> necessary.
>
> Good luck. Let me know if I can be of further
> assistance.
>
> Ken, WA2LBI
>
>
> On 12/28/05, tmllbrn <tmllbrn@...> wrote:
> > Hello can any one in the group give me the mic
> wiring for a shure 444
> > to a kenwood ts-950SD.
> >
> > thanks and have a happy new year
> > tim
> > W3TDM
> >
> >
> >
> >

> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft
> supply
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the
> web.
>
> To unsubscribe from this group, send an email
> to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
> ---------------------------------
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Shopping
> Find Great Deals on Holiday Gifts at Yahoo!
> Shopping
>
> [Non-text portions of this message have been
> removed]
>
>

When in doubt, MODIFY...

6276. 400 VOLTS ON HV....TS 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 17:16:25 UTC
From: Bob
Topic: 6276 Message: 6276

Yikkkkes....I only have 400 volts or so on the HV, I think this should be around 800 or so. Rcv's good , tunes up good but at half power out.....tube or cap gone ?
73 BOB

6277. Re: [TS-520_820_530_830] 400 VOLTS ON HV....TS 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 18:03:38 UTC
From: Walt Breining
Topic: 6276 Message: 6277

Cap. N9WB
----- Original Message -----
From: "Bob" <bob7255khz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 03, 2006 12:16 PM
Subject: [TS-520_820_530_830] 400 VOLTS ON HV....TS 830S

> Yikkkkes....I only have 400 volts or so on the HV, I think this should
> be around 800 or so. Rcv's good , tunes up good but at half power
> out.....tube or cap gone ?
> 73 BOB
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6278. Re: [TS-520_820_530_830] 400 VOLTS ON HV....TS 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 18:13:41 UTC
From: joe sloss
Topic: 6276 Message: 6278

Bob: I think you'll find one of the filter caps is bad. Would not be a bad idea to replace both,

Good luck, Joe k7mks
----- Original Message -----
From: "Bob" <bob7255khz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 03, 2006 9:16 AM
Subject: [TS-520_820_530_830] 400 VOLTS ON HV....TS 830S

> Yikkkkes....I only have 400 volts or so on the HV, I think this should
> be around 800 or so. Rcv's good , tunes up good but at half power
> out.....tube or cap gone ?
> 73 BOB
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6279. Re: [TS-520_820_530_830] 400 VOLTS ON HV....TS 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 20:48:30 UTC
From: Bill K0ZL
Topic: 6276 Message: 6279

HV filter cap gone; Beauty of this design is that one
cap goes bad, no sparks flames or blown fuses; you
just loose half your plate voltage!

Digikey P7453-ND, get two for you and two for a
friend.

They are much shorter than the original, but same
diameter so they will fit the clamps.

73!

Bill K0ZL

--- Bob <bob7255khz@...> wrote:

> Yikkkkes....I only have 400 volts or so on the HV, I
> think this should
> be around 800 or so. Rcv's good , tunes up good
> but at half power
> out.....tube or cap gone ?
> 73 BOB
>
>
>
>
>

When in doubt, MODIFY...

6280. 400 TO 500 VOLTS.....BUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 21:29:09 UTC
From: Bob
Topic: 6280 Message: 6280

But the thing is , when I turn on the 830 (heaters off) , I have 700 volts THEN when I put the heater switch on , with in 15 seconds or so it will slowly drop to 475 volts and stay there. Then if I turn the heater switch back off.....another 15 seconds it slowly goes back up to 700 volts....is one cap just breaking down with voltage?
Thanks for the help fellas.....BOB

6281. 820 ALC Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-03 22:35:47 UTC
From: Bill Hall
Topic: 6281 Message: 6281

Have no ALC meter reading on tune up or transmit. Also no "S" meter reading during receive.All other meter functions OK.
Tune up on 21 MHz readings as follows:
Bais- 60 ma
Plate Tuning- OK
IP- 250 ma peak
HV- 825 volts
Adjusted the drive by signal strength. Transmitter produces 98 W.

Any help will be appreciated.

73's
Bill KZ5CW

6282. Re: [TS-520_820_530_830] 400 TO 500 VOLTS.....BUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-04 04:09:31 UTC
From: Bill K0ZL
Topic: 6280 Message: 6282

You have a cap with real high ESR or "plate
resistance" due to breakdown of the electrolytic
solution. It's still a cap, but with insufficient
capacity to keep the voltage doubler circuit from
working properly under load.

bill

--- Bob <bob7255khz@...> wrote:

> But the thing is , when I turn on the 830 (heaters
> off) , I have 700
> volts THEN when I put the heater switch on , with
> in 15 seconds or so
> it will slowly drop to 475 volts and stay there.
> Then if I turn the
> heater switch back off.....another 15 seconds it
> slowly goes back up
> to 700 volts....is one cap just breaking down with
> voltage?
> Thanks for the help fellas.........BOB
>
>
>
>

When in doubt, MODIFY...

6283. Re: [TS-520_820_530_830] 820 ALC Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-04 04:12:32 UTC
From: Bill K0ZL
Topic: 6281 Message: 6283

It could just need an alignment of the RF stages for
each band. Check it on 80 meters into a dummy load.

As for the S meter, make sure that the AGC switch is
set to SLOW or FAST, not OFF, if your 820 has that
switch position.

73,

Bill K0ZL

--- Bill Hall <kz5cw@...> wrote:

> Have no ALC meter reading on tune up or transmit.
> Also no "S" meter
> reading during receive.All other meter functions OK.
> Tune up on 21 MHz readings as follows:
> Bais- 60 ma
> Plate Tuning- OK
> IP- 250 ma peak
> HV- 825 volts
> Adjusted the drive by signal strength.
> Transmitter produces 98 W.
>
> Any help will be appreciated.
>
> 73's
> Bill KZ5CW
>
>
>
>
>

When in doubt, MODIFY...

6284. Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-04 15:28:27 UTC
From: craig harris
Topic: 6249 Message: 6284

dear sir,
i have a ts-820 and a ts-520 and the best mic by far
is the yeasu yd-844 dynamic 50k ohms.i everyday get
some kind of report on how good my audio sounds.it is
the ft-101 series original mic.wb7anu

--- t millburne <tmllbrn@...> wrote:

> Hello Ken
>
> i wanted to thank you for the mic wiring for the
> shure 444 to my 950.
> maybe you can tell me if there is a better mic for
> this rig i have now tried a Heil pr-20 and people
> said its ok nothing great and the 444 they say is
> not at all good real weak audio reports.i was
> wondering if you might have any suggestions a couple
> operators said a D-104 but i heard they dont work
> well with kenwoods.
>
> thanks and 73s
> Tim
>
> Ken Winterling <wa2lbi@...> wrote:
> Tim,
>
> Here is the 444 data sheet:
> http://www.shure.com/pdf/discontinued/444.pdf
>
> Here is the Kenwood 8 pin mic jack wiring (this info
> should be in the
> '950SD manual):
> 1- mic hi
> 2- PTT
> 3- frequency down
> 4- frequency up
> 5- +8VDC
> 6- n/c
> 7- mic lo (shield)
> 8- PTT ground
>
> If your your 444 has the original factory 2
> conductor cable with a
> black and white wire inside the shield then the
> black wire is the mic

> hi and the white wire is for PTT. The shield is
> common to both. If
> that is the case you would wire the connector as
> follows:
>
> Mic black wire (mic hi) to Kenwood plug pin 1 (mic
> hi)
> Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> Mic shield (mic lo and PTT ground) to Kenwood plug
> pins 7 (mic lo) and
> 8 (PTT ground)
>
> While you are at it you should remove the factory
> jumper inside the
> base of the 444 that shorts the mic element when the
> PTT bar is
> released (up). With the jumper in place you need to
> flip the VOX
> switch under the mic AND depress/lock the PTT bar to
> use VOX. If you
> remove the jumper you can leave the switch in the
> normal/PTT position
> and use VOX without moving the switch or the PTT
> bar. This also gives
> you the ability to over ride the VOX with the PTT if
> necessary.
>
> Good luck. Let me know if I can be of further
> assistance.
>
> Ken, WA2LBI
>
>
> On 12/28/05, tmllbrn <tmllbrn@...> wrote:
> > Hello can any one in the group give me the mic
> wiring for a shure 444
> > to a kenwood ts-950SD.
> >
> > thanks and have a happy new year
> > tim
> > W3TDM
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >

> >
> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft
> supply
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the
> web.
>
> To unsubscribe from this group, send an email
> to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
> ---------------------------------
>
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Shopping
> Find Great Deals on Holiday Gifts at Yahoo!
> Shopping
>
> [Non-text portions of this message have been
> removed]
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 WB7ANU

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.

```
dsl.yahoo.com
```

6285. Might work , for a while

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-04 19:13:15 UTC
From: Bob
Topic: 6285 Message: 6285

Well , I changed out my HV caps....I had in my junk pile 2 pcs of
125 mfd @ 450 volts. The rig is working but now my hv is reading well
over 900 volts which surpasses the total of both caps.....I'm living
on the edge by doing this , right?

73 BOB

6286. Re: [TS-520_820_530_830] Might work , for a while

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-04 19:42:58 UTC
From: Walt Breining
Topic: 6285 Message: 6286

I wouldn't worry about it too much. The worst that could happen is that you will blow the transformer and/or burn the house down.

Some caps will handle twice their rating others will not handle 90% of their rating. One of two things will happen.

1. You will live happily ever after.
2. You will hear a loud pop and smell smoke.

Be sure that you have the right fuse installed.
Placing a 10 ohm 1/2 watt resistor in series with the transformer HV windings is not a bad idea.
Usually, if the caps or rectifiers shorts the resistors will open saving the transformer. In the mean time, look for better rated caps.

Oh, BTW, don't leave it on when you are not at home or asleep.

Good DX,
Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "Bob" <bob7255khz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 04, 2006 2:13 PM
Subject: [TS-520_820_530_830] Might work , for a while

> Well , I changed out my HV caps....I had in my junk pile 2 pcs of
> 125 mfd @ 450 volts. The rig is working but now my hv is reading well
> over 900 volts which surpasses the total of both caps.....I'm living
> on the edge by doing this , right?
>
> 73 BOB
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

>
>

6287. Re: [TS-520_820_530_830] Might work , for a while

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-04 22:04:35 UTC
From: Bill K0ZL
Topic: 6285 Message: 6287

They should be OK until you get the right ones in.
Just make sure your line fuse is right 5 amp fast blow
or AGC-5

b

--- Bob <bob7255khz@...> wrote:

> Well , I changed out my HV caps....I had in my
> junk pile 2 pcs of
> 125 mfd @ 450 volts. The rig is working but now my
> hv is reading well
> over 900 volts which surpasses the total of both
> caps.....I'm living
> on the edge by doing this , right?
>
> 73 BOB
>
>
>
>
>

When in doubt, MODIFY...

6288. R: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-05 08:08:11 UTC
From: P. Coppin
Topic: 6249 Message: 6288

I had the YD-844, it is a great mike but I sold it because it has low stand
so I had to bend over it, the Shure 444 is higher. Moreover the original
FT-101 hand microphone had a little bit louder audio than YD-844 therefore I
put that handy mic cartridge in my 444 so I have a GREAT cartridge in a
GREAT extendable microphone body for my FT-902DM.

73

i8ixo

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di craig harris
Inviato: mercoledì 4 gennaio 2006 16.28
A: TS-520_820_530_830@yahoogroups.com
Oggetto: Re: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

dear sir,
i have a ts-820 and a ts-520 and the best mic by far
is the yeasu yd-844 dynamic 50k ohms.i everyday get
some kind of report on how good my audio sounds.it is
the ft-101 series original mic.wb7anu

--- t millburne <tmllbrn@...> wrote:

> Hello Ken
>
> i wanted to thank you for the mic wiring for the
> shure 444 to my 950.
> maybe you can tell me if there is a better mic for
> this rig i have now tried a Heil pr-20 and people
> said its ok nothing great and the 444 they say is
> not at all good real weak audio reports.i was
> wondering if you might have any suggestions a couple
> operators said a D-104 but i heard they dont work
> well with kenwoods.
>
> thanks and 73s
> Tim
>

[Non-text portions of this message have been removed]

6289. as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-05 10:32:23 UTC
From: P. Coppin
Topic: 6249 Message: 6289

Did you hear about this modification ??

About 20 years ago several dxer suggested to cover the sides holes of mc-50
and 60 with rubber or scotch tape to have a higher audio quality (probably
to cut the room noise).

I did it on both microphones. They sound good.

I have sent a picture of my shack to the group's album.

I8ixo

[Non-text portions of this message have been removed]

6290. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-05 14:42:36 UTC
From: Walt Breining
Topic: 6249 Message: 6290

That is an olde trick. Actually, the MC-50 mike elements were lacking in articulation. Covering the side holes with scotch tape, electrical tape, rubber, or a toilet paper
tube puts back pressure on the element making it more middy and adding articulation.

The best way I found was to remove the top cover. On the sides of the element there is nylon cloth or sometimes felt. Putting one layer of masking tape over this material will increase back pressure. Use two pieces, one on each side between the wire connections. I found that if one on one side is about 1/4 inch short to not fully cover that side it is a bit better. Masking tape lets just the right amount of air still pass. Be careful.

The MC-60 has many other issues. Most of these mikes had the hot audio and the ground reversed inside the mike itself resulting in RF and response problems. These are detailed in the files section of KenwoodMics Yahoo group.

Now some history if I may reminiscence:

Many people think that if they purchase the factory matching mike they will get great sound. Actually during the 70's and somewhat today, this was not the case.
The manufactures would purchase generic elements and tailor a mike to cosmetically match
their gear. The mike was not necessary optimum electrically.
Another problem was that these mikes were designed by people who spoke Japanese.

In those days, lines of communications between the Japanese manufactures and American users was poor. The Japanese language uses many vowels, the a,e,i,o,u sounds. The American language uses more consonants, the c,k,s,t, sounds. Mikes tailored for Japanese users did not work well
for English speaking Americans. They muffled the English language.

The MC-50 uses a sound reinforcement element that is good for Paging applications and for the South East Asian languages. It is the same element that is some models of the muddy Diesel CB noise canceling mike with the screen front sold at truck stops.

In the mid 70's a group of us used to operate on 7240 late nights and started wondering why some
rigs and mikes sounded clearer and had more punch than others. Among the many was Bob Heil, K9EID. Bob, like myself always liked the TS-820. Bob built custom audio mixers for performers. We started using various circuits to enhance our audio including series capacitors, compressors, and

mechanical modifications such as the one above. We then started trying different mike elements in our MC-50s. Heil located a source of a square ceramic element that sounded much better than the MC-50 element. He called it the Heil HC-1, Heil ceramic 1.

Over the next couple of years, Heil did a lot of research and had the manufacture of these elements to custom make elements to his audio response specifications. So along came the HC-2 and the HC-3.

Finally he settled on the HC-4 and HC-5. The HC-4 was a element meant to be punchy with extreme mids but not natural sounding. It was for busting DX pile ups. The HC-5 was a more full dynamic element in the same package but had a subtle rise in the presence area to increase articulation. The HC-5 worked good in the MC-50.

Bob then built the EQ-100 which was based on the various active EQ projects that we were doing on 7240. He published this as a project in QST. This was followed by the EQ-200.

At Dayton engineers from Icom, Yaesu, and Kenwood attended his audio forums and the result was greatly improved sound of the Asian made rigs. Imagine how cool it was to have engineers from the major Amateur Radio manufactures come to your forum to learn how to make their gear better!

Bob started making mikes using the HC elements and perfected the enclosure design to enhance his elements. The enclosure has a lot to do with the sound.

Heil later contracted the manufacture of some dynamic elements that were physically more typical of normal dynamic elements but still had boosted articulation. Heil started marketing headsets that the broadcast sports industry picked up on. They typically used the HC-5 element.

Dynamic elements had not changed much for over 20 years, until the last couple of years.
Then Heil, with the help of Joe Walsh, and a guy that has an outstanding tool shop along with others came up with a new Dynamic design that used low mass (light weight) wire and a quilted element, among other features found in the $1000 mikes such as a hum bucking coil. Heil incorporated these new elements in his Pro 20, 30, and 40 as well as in his Classic microphone series.

The Pro 40 is really getting noticed by the broadcast industry. One of those now replaces the 77 DX on David Letterman's desk. It has many of the qualities of a condenser mike but does not require phantom power and does not pop and hiss as bad as condensers do.

As Bob says, "It all starts with the microphone." All of this started with efforts to improve the MC-50 microphone using tape and toilet paper tubes!

Now some notes:

BTW, ESSB (enhanced single side band) is not new. It started on 7240 in the mid 70's.

K0ZL pointed out that elements from microphones used with tape and cassette recorders made before the use of electret elements are often good sounding replacements in Kenwood mikes.

Please note that we have a Yahoo forum connected with this one called KenwoodMics. We probably should be discussing a lot of these mike issues there.

Want a Pro 40? The Fox Tango yahoo group is raffling off a Heil Pro-40 and a H.F. mobile rig.

http://foxtango.org/ft857d/FT-857D Club Contest.htm

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "P. Coppin" <copa054@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 5:32 AM
Subject: [TS-520_820_530_830] as for MC-50 and MC-60

> Did you hear about this modification ??
>
>
>
> About 20 years ago several dxer suggested to cover the sides holes of
mc-50
> and 60 with rubber or scotch tape to have a higher audio quality (probably
> to cut the room noise).
>
> I did it on both microphones. They sound good.
>
> I have sent a picture of my shack to the group's album.
>
>
>
> I8ixo
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>

> Yahoo! Groups Links
>
>
>
>
>
>
>

6291. R: [POSSIBILE SPAM]Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-05 14:57:15 UTC
From: P. Coppin
Topic: 6249 Message: 6291

Let me thank you Walt. I have appreciated very much your email.

Probably you remember the first article on CQ Magazine about the HC4 and HC5 elements.

Bob Heil was right. I appreciated very much his study.

After that CQ issue I bought immediately the HC-4 element. Then I got the HC-5 for wider range response.

I still use it with my TS-940.

Thanks Walt

Paul i8ixo

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di Walt Breining
Inviato: giovedì 5 gennaio 2006 15.43
A: TS-520_820_530_830@yahoogroups.com
Oggetto: [POSSIBILE SPAM]Re: [TS-520_820_530_830] as for MC-50 and MC-60

That is an olde trick. Actually, the MC-50 mike elements were lacking in articulation. Covering the side holes with scotch tape, electrical tape, rubber, or a toilet paper
tube puts back pressure on the element making it more middy and adding articulation.

The best way I found was to remove the top cover. On the sides of the element there is nylon cloth or sometimes felt. Putting one layer of masking tape over this material will increase back pressure. Use two pieces, one on each side between the wire connections. I found that if one on one side is about 1/4 inch short to not fully cover that side it is a bit better. Masking tape lets just the right amount of air still pass. Be careful.

The MC-60 has many other issues. Most of these mikes had the hot audio and the ground reversed inside the mike itself resulting in RF and response problems. These are detailed in the files section of KenwoodMics Yahoo group.

Now some history if I may reminiscence:

Many people think that if they purchase the factory matching mike they will get great sound. Actually during the 70's and somewhat today, this was not

the case.
The manufactures would purchase generic elements and tailor a mike to cosmetically match
their gear. The mike was not necessary optimum electrically.
Another problem was that these mikes were designed by people who spoke Japanese.

In those days, lines of communications between the Japanese manufactures and American users was poor. The Japanese language uses many vowels, the a,e,i,o,u sounds. The American language uses more consonants, the c,k,s,t, sounds. Mikes tailored for Japanese users did not work well
for English speaking Americans. They muffled the English language.

The MC-50 uses a sound reinforcement element that is good for Paging applications and for the South East Asian languages. It is the same element that is some models of the muddy Diesel CB noise canceling mike with the screen front sold at truck stops.

In the mid 70's a group of us used to operate on 7240 late nights and started wondering why some
rigs and mikes sounded clearer and had more punch than others. Among the many was Bob Heil, K9EID. Bob, like myself always liked the TS-820. Bob built custom audio mixers for performers. We started using various circuits to enhance our audio including series capacitors, compressors, and mechanical modifications such as the one above. We then started trying different mike elements in our MC-50s. Heil located a source of a square ceramic element that sounded much better than the MC-50 element. He called it the Heil HC-1, Heil ceramic 1.

Over the next couple of years, Heil did a lot of research and had the manufacture of these elements to custom make elements to his audio response specifications. So along came the HC-2 and the HC-3.

Finally he settled on the HC-4 and HC-5. The HC-4 was a element meant to be punchy with extreme mids but not natural sounding. It was for busting DX pile ups. The HC-5 was a more full dynamic element in the same package but had a subtle rise in the presence area to increase articulation. The HC-5 worked good in the MC-50.

Bob then built the EQ-100 which was based on the various active EQ projects that we were doing on 7240. He published this as a project in QST. This was followed by the EQ-200.

At Dayton engineers from Icom, Yaesu, and Kenwood attended his audio forums and the result was greatly improved sound of the Asian made rigs. Imagine how cool it was to have engineers from the major Amateur Radio manufactures come to your forum to learn how to make their gear better!

Bob started making mikes using the HC elements and perfected the enclosure design to enhance his elements. The enclosure has a lot to do with the sound.

Heil later contracted the manufacture of some dynamic elements that were physically more typical of normal dynamic elements but still had boosted articulation. Heil started marketing headsets that the broadcast sports industry picked up on. They typically used the HC-5 element.

Dynamic elements had not changed much for over 20 years, until the last couple of years.
Then Heil, with the help of Joe Walsh, and a guy that has an outstanding tool shop along with others came up with a new Dynamic design that used low mass (light weight) wire and a quilted element, among other features found in the $1000 mikes such as a hum bucking coil. Heil incorporated these new elements in his Pro 20, 30, and 40 as well as in his Classic microphone series.

The Pro 40 is really getting noticed by the broadcast industry. One of those now replaces the 77 DX on David Letterman's desk. It has many of the qualities of a condenser mike but does not require phantom power and does not pop and hiss as bad as condensers do.

As Bob says, "It all starts with the microphone." All of this started with efforts to improve the MC-50 microphone using tape and toilet paper tubes!

Now some notes:

BTW, ESSB (enhanced single side band) is not new. It started on 7240 in the mid 70's.

K0ZL pointed out that elements from microphones used with tape and cassette recorders made before the use of electret elements are often good sounding replacements in Kenwood mikes.

Please note that we have a Yahoo forum connected with this one called KenwoodMics. We probably should be discussing a lot of these mike issues there.

Want a Pro 40? The Fox Tango yahoo group is raffling off a Heil Pro-40 and a H.F. mobile rig.

http://foxtango.org/ft857d/FT-857D Club Contest.htm

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

[Non-text portions of this message have been removed]

6292. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-05 17:13:35 UTC
From: Peter A Markavage
Topic: 6249 Message: 6292

I've used a toilet paper roll(without the toilet paper) on my MC-50 for years. Gives you that added punch when conditions were poor or when working in a contest, and you didn't care your audio was restricted to telephone style audio.

Pete, wa2cwa

On Thu, 5 Jan 2006 09:42:36 -0500 "Walt Breining" <n9wb@...> writes:
That is an olde trick. Actually, the MC-50 mike elements were lacking in articulation. Covering the side holes with scotch tape, electrical tape, rubber, or a toilet paper
tube puts back pressure on the element making it more middy and adding articulation.

The best way I found was to remove the top cover. On the sides of the element there is nylon cloth or sometimes felt. Putting one layer of masking tape over this material will increase back pressure. Use two pieces,
one on each side between the wire connections. I found that if one on one
side is about 1/4 inch short to not fully cover that side it is a bit better. Masking tape lets just the right amount of air still pass. Be careful.

The MC-60 has many other issues. Most of these mikes had the hot audio and
the ground reversed inside the mike itself resulting in RF and response problems. These are detailed in the files section of KenwoodMics Yahoo group.

Now some history if I may reminiscence:

Many people think that if they purchase the factory matching mike they will
get great sound. Actually during the 70's and somewhat today, this was not
the case.
The manufactures would purchase generic elements and tailor a mike to cosmetically match
their gear. The mike was not necessary optimum electrically.
Another problem was that these mikes were designed by people who spoke Japanese.

In those days, lines of communications between the Japanese manufactures and
American users was poor. The Japanese language uses many vowels, the a,e,i,o,u sounds. The American language uses more consonants, the

c,k,s,t,
sounds. Mikes tailored for Japanese users did not work well
for English speaking Americans. They muffled the English language.

The MC-50 uses a sound reinforcement element that is good for Paging
applications and for the South East Asian languages. It is the same
element
that is some models of the muddy Diesel CB noise canceling mike with the
screen front sold at truck stops.

In the mid 70's a group of us used to operate on 7240 late nights and
started wondering why some
rigs and mikes sounded clearer and had more punch than others. Among the
many was Bob Heil, K9EID. Bob, like myself always liked the TS-820. Bob
built custom audio mixers for performers. We started using various
circuits
to enhance our audio including series capacitors, compressors, and
mechanical modifications such as the one above. We then started trying
different mike elements in our MC-50s. Heil located a source of a square
ceramic element that sounded much better than the MC-50 element. He
called
it the Heil HC-1, Heil ceramic 1.

Over the next couple of years, Heil did a lot of research and had the
manufacture of these elements to custom make elements to his audio
response
specifications. So along came the HC-2 and the HC-3.

Finally he settled on the HC-4 and HC-5. The HC-4 was a element meant to
be
punchy with extreme mids but not natural sounding. It was for busting DX
pile ups. The HC-5 was a more full dynamic element in the same package
but
had a subtle rise in the presence area to increase articulation. The
HC-5
worked good in the MC-50.

Bob then built the EQ-100 which was based on the various active EQ
projects
that we were doing on 7240. He published this as a project in QST. This
was
followed by the EQ-200.

At Dayton engineers from Icom, Yaesu, and Kenwood attended his audio
forums
and the result was greatly improved sound of the Asian made rigs. Imagine
how cool it was to have engineers from the major Amateur Radio
manufactures
come to your forum to learn how to make their gear better!

Bob started making mikes using the HC elements and perfected the
enclosure

design to enhance his elements. The enclosure has a lot to do with the sound.

Heil later contracted the manufacture of some dynamic elements that were physically more typical of normal dynamic elements but still had boosted articulation. Heil started marketing headsets that the broadcast sports industry picked up on. They typically used the HC-5 element.

Dynamic elements had not changed much for over 20 years, until the last couple of years.
Then Heil, with the help of Joe Walsh, and a guy that has an outstanding tool shop along with others came up with a new Dynamic design that used low
mass (light weight) wire and a quilted element, among other features found
in the $1000 mikes such as a hum bucking coil. Heil incorporated these new
elements in his Pro 20, 30, and 40 as well as in his Classic microphone series.

The Pro 40 is really getting noticed by the broadcast industry. One of those now replaces the 77 DX on David Letterman's desk. It has many of the
qualities of a condenser mike but does not require phantom power and does not pop and hiss as bad as condensers do.

As Bob says, "It all starts with the microphone." All of this started with
efforts to improve the MC-50 microphone using tape and toilet paper tubes!

Now some notes:

BTW, ESSB (enhanced single side band) is not new. It started on 7240 in the
mid 70's.

K0ZL pointed out that elements from microphones used with tape and cassette
recorders made before the use of electret elements are often good sounding
replacements in Kenwood mikes.

Please note that we have a Yahoo forum connected with this one called KenwoodMics. We probably should be discussing a lot of these mike issues there.

Want a Pro 40? The Fox Tango yahoo group is raffling off a Heil Pro-40 and a
H.F. mobile rig.

http://foxtango.org/ft857d/FT-857D Club Contest.htm

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "P. Coppin" <copa054@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 5:32 AM
Subject: [TS-520_820_530_830] as for MC-50 and MC-60

> Did you hear about this modification ??
>
>
>
> About 20 years ago several dxer suggested to cover the sides holes of
mc-50
> and 60 with rubber or scotch tape to have a higher audio quality
(probably
> to cut the room noise).
>
> I did it on both microphones. They sound good.
>
> I have sent a picture of my shack to the group's album.
>
>
>
> I8ixo

[Non-text portions of this message have been removed]

6293. ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-05 21:17:24 UTC
From: wb4mnk
Topic: 6293 Message: 6293

We have a TS-830S and the output would fall off to around 80 watts on 20 meters from around 105 watts so we order some new GE/JAN 6146W's and a new 12by7a driver. I installed the tubes today and turn the rig on and let warm up some and then turned the heater switch on and was going to let the tubes warm up for maybe 20 minutes before I would try and load the rig up on 20 meters. Band switch was set for 20 meters and the mode switch was in usb. Well maybe into warming up for around one minute the rig acted like something shorted out twice and we turn it off. WE replaced the new 6146W tubes with the old 6146W tubes and now when we checked the idle current it goes full scale. I pulled the final unit and checked r2-r5 which are 20ohm resistors. They all check installed in the board at 42.9ohms. Could someone please direct me into the correct area to check and help me get this rig back on the air. Thanks

73
Art
WB4MNK

6294. Re: [TS-520_820_530_830] Funny goings on with TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 00:57:07 UTC
From: Bert Morton
Topic: 6266 Message: 6294

Has anyone heard if this resolved John's problem ?
----- Original Message -----
From: Bill K0ZL
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 03, 2006 11:49 AM
Subject: Re: [TS-520_820_530_830] Funny goings on with TS-520

Bert is right; the 520 adjustment is on the left side.
530-820-830 is on the back panel, upper left, as you
face the back of the rig.

bill

--- Bert Morton <hamradioguy@...> wrote:

> The sensitivity of the RF reading is adjustable via
> the RF voltage control on the side of the 520. See
> Section 3 of the operating manual.
> ----- Original Message -----
> From: catboat15@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 02, 2006 4:33 PM
> Subject: Re: [TS-520_820_530_830] Funny goings on
> with TS-520
>
>
> What are the symptoms of blown finals?
> When I tuned up my 520 this afternoon, got all the
> readings according to the
> manual OK. Except when I had the meter in RF
> reading I saw no response, but
>
> a.. .

[Non-text portions of this message have been removed]

6295. RE: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 03:57:49 UTC
From: Hauser, Ron M.
Topic: 6249 Message: 6295

Walt, from a newcomer to ham radio (licensed just one year) I want to thank you for your trip down "memory lane." Your reminiscenses were very educational to one who has been hearing names like Heil, but not really knowing any of the back story. Very interesting!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Thursday, January 05, 2006 8:43 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] as for MC-50 and MC-60

That is an olde trick. Actually, the MC-50 mike elements were lacking in
articulation. Covering the side holes with scotch tape, electrical tape, rubber, or a toilet paper
tube puts back pressure on the element making it more middy and adding articulation.

The best way I found was to remove the top cover. On the sides of the element there is nylon cloth or sometimes felt. Putting one layer of masking tape over this material will increase back pressure. Use two pieces,
one on each side between the wire connections. I found that if one on one
side is about 1/4 inch short to not fully cover that side it is a bit better. Masking tape lets just the right amount of air still pass. Be careful.

The MC-60 has many other issues. Most of these mikes had the hot audio and
the ground reversed inside the mike itself resulting in RF and response problems. These are detailed in the files section of KenwoodMics Yahoo group.

Now some history if I may reminiscence:

Many people think that if they purchase the factory matching mike they will
get great sound. Actually during the 70's and somewhat today, this was not
the case.
The manufactures would purchase generic elements and tailor a mike to

cosmetically match
their gear. The mike was not necessary optimum electrically.
Another problem was that these mikes were designed by people who spoke
Japanese.

In those days, lines of communications between the Japanese manufactures
and
American users was poor. The Japanese language uses many vowels, the
a,e,i,o,u sounds. The American language uses more consonants, the
c,k,s,t,
sounds. Mikes tailored for Japanese users did not work well
for English speaking Americans. They muffled the English language.

The MC-50 uses a sound reinforcement element that is good for Paging
applications and for the South East Asian languages. It is the same
element
that is some models of the muddy Diesel CB noise canceling mike with the
screen front sold at truck stops.

In the mid 70's a group of us used to operate on 7240 late nights and
started wondering why some
rigs and mikes sounded clearer and had more punch than others. Among the
many was Bob Heil, K9EID. Bob, like myself always liked the TS-820. Bob
built custom audio mixers for performers. We started using various
circuits
to enhance our audio including series capacitors, compressors, and
mechanical modifications such as the one above. We then started trying
different mike elements in our MC-50s. Heil located a source of a
square
ceramic element that sounded much better than the MC-50 element. He
called
it the Heil HC-1, Heil ceramic 1.

Over the next couple of years, Heil did a lot of research and had the
manufacture of these elements to custom make elements to his audio
response
specifications. So along came the HC-2 and the HC-3.

Finally he settled on the HC-4 and HC-5. The HC-4 was a element meant
to be
punchy with extreme mids but not natural sounding. It was for busting DX
pile ups. The HC-5 was a more full dynamic element in the same package
but
had a subtle rise in the presence area to increase articulation. The
HC-5
worked good in the MC-50.

Bob then built the EQ-100 which was based on the various active EQ
projects
that we were doing on 7240. He published this as a project in QST. This
was
followed by the EQ-200.

At Dayton engineers from Icom, Yaesu, and Kenwood attended his audio forums
and the result was greatly improved sound of the Asian made rigs. Imagine
how cool it was to have engineers from the major Amateur Radio manufactures
come to your forum to learn how to make their gear better!

Bob started making mikes using the HC elements and perfected the enclosure
design to enhance his elements. The enclosure has a lot to do with the
sound.

Heil later contracted the manufacture of some dynamic elements that were physically more typical of normal dynamic elements but still had boosted articulation. Heil started marketing headsets that the broadcast sports industry picked up on. They typically used the HC-5 element.

Dynamic elements had not changed much for over 20 years, until the last couple of years.
Then Heil, with the help of Joe Walsh, and a guy that has an outstanding tool shop along with others came up with a new Dynamic design that used low
mass (light weight) wire and a quilted element, among other features found
in the $1000 mikes such as a hum bucking coil. Heil incorporated these new
elements in his Pro 20, 30, and 40 as well as in his Classic microphone series.

The Pro 40 is really getting noticed by the broadcast industry. One of those now replaces the 77 DX on David Letterman's desk. It has many of the
qualities of a condenser mike but does not require phantom power and does
not pop and hiss as bad as condensers do.

As Bob says, "It all starts with the microphone." All of this started with
efforts to improve the MC-50 microphone using tape and toilet paper tubes!

Now some notes:

BTW, ESSB (enhanced single side band) is not new. It started on 7240 in the
mid 70's.

K0ZL pointed out that elements from microphones used with tape and cassette
recorders made before the use of electret elements are often good sounding
replacements in Kenwood mikes.

Please note that we have a Yahoo forum connected with this one called KenwoodMics. We probably should be discussing a lot of these mike issues there.

Want a Pro 40? The Fox Tango yahoo group is raffling off a Heil Pro-40 and a
H.F. mobile rig.

http://foxtango.org/ft857d/FT-857D Club Contest.htm

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "P. Coppin" <copa054@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 5:32 AM
Subject: [TS-520_820_530_830] as for MC-50 and MC-60

> Did you hear about this modification ??
>
>
>
> About 20 years ago several dxer suggested to cover the sides holes of mc-50
> and 60 with rubber or scotch tape to have a higher audio quality (probably
> to cut the room noise).
>
> I did it on both microphones. They sound good.
>
> I have sent a picture of my shack to the group's album.
>
>
>
> I8ixo
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>

Yahoo! Groups Links

6296. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 05:22:08 UTC
From: Bill Scurlock
Topic: 6293 Message: 6296

Art, the total cathode resistance should measure 5 ohms for proper operation of the finals and for metering accuracy. Something has probably gone wrong with the 4-20 ohm resistors. By unsoldering one end of each resistor you can check their values. I just had to replace mine in my TS-830 because their values had increased. Good luck.

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 05, 2006 3:17 PM
Subject: [TS-520_820_530_830] ts-830s

We have a TS-830S and the output would fall off to around 80 watts
on 20 meters from around 105 watts so we order some new GE/JAN
6146W's and a new 12by7a driver. I installed the tubes today and
turn the rig on and let warm up some and then turned the heater
switch on and was going to let the tubes warm up for maybe 20
minutes before I would try and load the rig up on 20 meters. Band
switch was set for 20 meters and the mode switch was in usb. Well
maybe into warming up for around one minute the rig acted like
something shorted out twice and we turn it off. WE replaced the new
6146W tubes with the old 6146W tubes and now when we checked the
idle current it goes full scale. I pulled the final unit and
checked r2-r5 which are 20ohm resistors. They all check installed in
the board at 42.9ohms. Could someone please direct me into the
correct area to check and help me get this rig back on the air.
Thanks

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6297. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 05:49:12 UTC
From: Arthur Petteway
Topic: 6293 Message: 6297

Hi Bill, Thanks for the reply. You are correct about the 4-20 ohm resistors because that was what was wrong. I replaced all for and the total ohm is now 5.3 ohms. I put in some old 6146B tubes to try it out and things seemed to be ok but these tubes power falls off from 110 watts to around 85 watts. I was kinda afraid to put the new 6146W tubes back in the rig because that was maybe what caused the resisters to fail. These 6146W tubes are new and dated 1987 and we purchased them from Surplus Sales of Nebraska and received them today so I though I would replace the old 6146B tubes with these new 6146W tubes for the week end ARRL RTTY contest. These W tubes are GE/JAN BRAND and I am not sure if I should use them or try and find some B tubes which seem to cost much more than the W tube. Maybe you could help decide what to do because at this point I am not sure. Bill please give me your suggestions and what causes these resistors to fail?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:22 AM
Subject: Re: [TS-520_820_530_830] ts-830s

Art, the total cathode resistance should measure 5 ohms for proper operation of the finals and for metering accuracy. Something has probably gone wrong with the 4-20 ohm resistors. By unsoldering one end of each resistor you can check their values. I just had to replace mine in my TS-830 because their values had increased. Good luck.

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 05, 2006 3:17 PM
Subject: [TS-520_820_530_830] ts-830s

We have a TS-830S and the output would fall off to around 80 watts
on 20 meters from around 105 watts so we order some new GE/JAN
6146W's and a new 12by7a driver. I installed the tubes today and
turn the rig on and let warm up some and then turned the heater
switch on and was going to let the tubes warm up for maybe 20
minutes before I would try and load the rig up on 20 meters. Band
switch was set for 20 meters and the mode switch was in usb. Well
maybe into warming up for around one minute the rig acted like
something shorted out twice and we turn it off. WE replaced the new
6146W tubes with the old 6146W tubes and now when we checked the
idle current it goes full scale. I pulled the final unit and
checked r2-r5 which are 20ohm resistors. They all check installed in
the board at 42.9ohms. Could someone please direct me into the

correct area to check and help me get this rig back on the air.
Thanks

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.13/221 - Release Date: 1/4/2006

[Non-text portions of this message have been removed]

6298. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 10:16:52 UTC
From: amfone@sbcglobal.net
Topic: 6249 Message: 6298

Walt
That was very interesting and informative until I got to the part that (ESSB) started on 7.240 in the 1970's!!! That form of receiving has been used for years dating back much earlier than any hams getting together on 7.240 in the 70's.
73
Tim
WB8UHZ
----- Original Message -----
From: Hauser, Ron M.
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 05, 2006 10:57 PM
Subject: RE: [TS-520_820_530_830] as for MC-50 and MC-60

Walt, from a newcomer to ham radio (licensed just one year) I want to thank you for your trip down "memory lane." Your reminiscenses were very educational to one who has been hearing names like Heil, but not really knowing any of the back story. Very interesting!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Thursday, January 05, 2006 8:43 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] as for MC-50 and MC-60

That is an olde trick. Actually, the MC-50 mike elements were lacking in
articulation. Covering the side holes with scotch tape, electrical tape, rubber, or a toilet paper
tube puts back pressure on the element making it more middy and adding articulation.

The best way I found was to remove the top cover. On the sides of the element there is nylon cloth or sometimes felt. Putting one layer of masking tape over this material will increase back pressure. Use two pieces,
one on each side between the wire connections. I found that if one on one
side is about 1/4 inch short to not fully cover that side it is a bit better. Masking tape lets just the right amount of air still pass. Be careful.

The MC-60 has many other issues. Most of these mikes had the hot audio and
the ground reversed inside the mike itself resulting in RF and response
problems. These are detailed in the files section of KenwoodMics Yahoo
group.

Now some history if I may reminiscence:

Many people think that if they purchase the factory matching mike they will
get great sound. Actually during the 70's and somewhat today, this was not
the case.
The manufactures would purchase generic elements and tailor a mike to
cosmetically match
their gear. The mike was not necessary optimum electrically.
Another problem was that these mikes were designed by people who spoke
Japanese.

In those days, lines of communications between the Japanese manufactures and
American users was poor. The Japanese language uses many vowels, the
a,e,i,o,u sounds. The American language uses more consonants, the c,k,s,t,
sounds. Mikes tailored for Japanese users did not work well
for English speaking Americans. They muffled the English language.

The MC-50 uses a sound reinforcement element that is good for Paging
applications and for the South East Asian languages. It is the same element
that is some models of the muddy Diesel CB noise canceling mike with the
screen front sold at truck stops.

In the mid 70's a group of us used to operate on 7240 late nights and
started wondering why some
rigs and mikes sounded clearer and had more punch than others. Among the
many was Bob Heil, K9EID. Bob, like myself always liked the TS-820. Bob
built custom audio mixers for performers. We started using various circuits
to enhance our audio including series capacitors, compressors, and
mechanical modifications such as the one above. We then started trying
different mike elements in our MC-50s. Heil located a source of a square
ceramic element that sounded much better than the MC-50 element. He called
it the Heil HC-1, Heil ceramic 1.

Over the next couple of years, Heil did a lot of research and had the
manufacture of these elements to custom make elements to his audio response
specifications. So along came the HC-2 and the HC-3.

Finally he settled on the HC-4 and HC-5. The HC-4 was a element meant to be
punchy with extreme mids but not natural sounding. It was for busting DX
pile ups. The HC-5 was a more full dynamic element in the same package but
had a subtle rise in the presence area to increase articulation. The HC-5
worked good in the MC-50.

Bob then built the EQ-100 which was based on the various active EQ projects
that we were doing on 7240. He published this as a project in QST. This was
followed by the EQ-200.

At Dayton engineers from Icom, Yaesu, and Kenwood attended his audio forums
and the result was greatly improved sound of the Asian made rigs. Imagine
how cool it was to have engineers from the major Amateur Radio manufactures
come to your forum to learn how to make their gear better!

Bob started making mikes using the HC elements and perfected the enclosure
design to enhance his elements. The enclosure has a lot to do with the
sound.

Heil later contracted the manufacture of some dynamic elements that were
physically more typical of normal dynamic elements but still had boosted
articulation. Heil started marketing headsets that the broadcast sports
industry picked up on. They typically used the HC-5 element.

Dynamic elements had not changed much for over 20 years, until the last
couple of years.
Then Heil, with the help of Joe Walsh, and a guy that has an outstanding
tool shop along with others came up with a new Dynamic design that used low
mass (light weight) wire and a quilted element, among other features found
in the $1000 mikes such as a hum bucking coil. Heil incorporated these new
elements in his Pro 20, 30, and 40 as well as in his Classic microphone
series.

The Pro 40 is really getting noticed by the broadcast industry. One of
those now replaces the 77 DX on David Letterman's desk. It has many of the
qualities of a condenser mike but does not require phantom power and does
not pop and hiss as bad as condensers do.

As Bob says, "It all starts with the microphone." All of this started with
efforts to improve the MC-50 microphone using tape and toilet paper
tubes!

Now some notes:

BTW, ESSB (enhanced single side band) is not new. It started on 7240 in the
mid 70's.

K0ZL pointed out that elements from microphones used with tape and cassette
recorders made before the use of electret elements are often good sounding
replacements in Kenwood mikes.

Please note that we have a Yahoo forum connected with this one called
KenwoodMics. We probably should be discussing a lot of these mike issues
there.

Want a Pro 40? The Fox Tango yahoo group is raffling off a Heil Pro-40 and a
H.F. mobile rig.

http://foxtango.org/ft857d/FT-857D Club Contest.htm

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "P. Coppin" <copa054@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 5:32 AM
Subject: [TS-520_820_530_830] as for MC-50 and MC-60

> Did you hear about this modification ??
>
>
>
> About 20 years ago several dxer suggested to cover the sides holes of
mc-50
> and 60 with rubber or scotch tape to have a higher audio quality
(probably
> to cut the room noise).
>
> I did it on both microphones. They sound good.
>
> I have sent a picture of my shack to the group's album.
>
>
>
> I8ixo

>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

Yahoo! Groups Links

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6299. Re: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 12:25:46 UTC
From: Walt Breining
Topic: 6299 Message: 6299

Probably, one or more of your new tubes has a screen to control grid short. This
placed high screen voltage on the control grid that should be biased near cut off with negative voltage. When the filaments warmed, the tube started conducting violently causing excessive current through the cathode resistors R2, R3, R4, and R5.

These resistors serve as shunt resistors for the IP meter and also act as fuses
in the event of a short like the one that happened to you.

You should replace R2, R3, R4, and R5.
Do not use resistors except 1/2 watt, the same wattage as the originals. Do NOT use larger resistors because they will not blow if needed and do major damage if this were to happen again.

Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2 coil should check 0 ohms. If it checks open, it is fried. Also look closely for cracks or any indication that it is badly fried. If it looks like it has gotten hot, not just dirt on it, it could be shorted.

Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is checked the same way as L2. Observe PS 1 and PS 2. These are two parasitic chokes wound around a resistor. It is not likely that these were damaged and the wire or the resistor inside will look like it has been overheated if they are damaged. They may be covered. If so and the cover does not look burnt, don't
worry about them for now.

After doing the above put your ORIGINAL tubes in and try again. After the filaments warm up, key up in SSB with mike gain fully down and see if you can set your bias control for 60 ma IP.

Let us know what happens. Even if the rig is now back to it's original condition, get back with us.

I am interested as to why you concluded that the tubes were bad and what type and make the originals were. 6146 and S-2001 types do not go bad as often as the 6JS6 tubes in Yaesus do unless the rig has been hot rodded. I am not as familiar with the TS 830 as I am the 820, but screen supply problems can cause low output. I can help you check that.

Remember that the SG switch on the back has to be on. It often gets bumped while servicing.

To check the new tubes for shorts, check ohms between pin 3 and 5 with the tube removed. If it shows anything but an open, it is shorted. If it shows

a very high resistance, like 100k ohms or more, check to be sure that your fingers are not touching the probes. Likely you will be measuring yourself.

With the bottom of the tube facing you, you will see a pin with a key along the side. This lines up with the key hole in the socket to establish tube rotation.

Still with the bottom facing you count clockwise from the key. The first pin clockwise from the key is pin 1 the last pin clockwise is pin 8.

Pin 3 is the screen grid and pin 5 is the control grid. These are the pins where the short will be.

If the tubes show a short, they are shorted. If they show a open, they may still be shorted and should be checked in a Tube Tester for shorts before trying them again. Do not be too quick to have a public hanging of the person who sold you these tubes. These grids can often short during shipment and handling. Some makes and types tend to do this more than others.

BTW, does everybody understand how a tube works basically?

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "wb4mnk" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 4:17 PM
Subject: [TS-520_820_530_830] ts-830s

> We have a TS-830S and the output would fall off to around 80 watts
> on 20 meters from around 105 watts so we order some new GE/JAN
> 6146W's and a new 12by7a driver. I installed the tubes today and
> turn the rig on and let warm up some and then turned the heater
> switch on and was going to let the tubes warm up for maybe 20
> minutes before I would try and load the rig up on 20 meters. Band
> switch was set for 20 meters and the mode switch was in usb. Well
> maybe into warming up for around one minute the rig acted like
> something shorted out twice and we turn it off. WE replaced the new
> 6146W tubes with the old 6146W tubes and now when we checked the
> idle current it goes full scale. I pulled the final unit and
> checked r2-r5 which are 20ohm resistors. They all check installed in
> the board at 42.9ohms. Could someone please direct me into the
> correct area to check and help me get this rig back on the air.
> Thanks
>
> 73
> Art
> WB4MNK
>
>

>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6300. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 12:47:11 UTC
From: Walt Breining
Topic: 6249 Message: 6300

Please tell me what you mean by "that form of receiving"? I will comment.

You are right. Good sounding transmit audio was not new in the 70's. It was always a goal since the beginning of AM. However until the mid 70's most SSB signals sounded pretty bad. There very likely some other pioneers prior to that seriously trying to improve their SSB sound. Not just make it louder.

Where Heil is today regarding his microphone and Amateur endeavors did start in the mid 70's. One point I wanted to make is that Good audio is nothing new. And "Good audio is an Amateur Radio tradition, not a crime."

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

6301. Re: R: [TS-520_820_530_830] shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 13:00:22 UTC
From: Bill K0ZL
Topic: 6249 Message: 6301

Guys, look into a swing-arm stand such as that sold by
Heil, and also perhaps modifying one from a desk lamp.
That and a foot switch is the best thing I have ever
done for my station; REALLY came in handy during
Katrina comms.

73,

Bill K0ZL
5330.5 USB

--- "P. Coppin" <copa054@...> wrote:

> I had the YD-844, it is a great mike but I sold it
> because it has low stand
> so I had to bend over it, the Shure 444 is higher.
> Moreover the original
> FT-101 hand microphone had a little bit louder audio
> than YD-844 therefore I
> put that handy mic cartridge in my 444 so I have a
> GREAT cartridge in a
> GREAT extendable microphone body for my FT-902DM.
>
>
>
> 73
>
> i8ixo
>
>
>
> _____
>
> Da: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Per
> conto di craig harris
> Inviato: mercoled? 4 gennaio 2006 16.28
> A: TS-520_820_530_830@yahoogroups.com
> Oggetto: Re: [TS-520_820_530_830] shure 444 to
> kenwood ts-950SD
>
>
>
> dear sir,
> i have a ts-820 and a ts-520 and the best mic by far
> is the yeasu yd-844 dynamic 50k ohms.i everyday get

> some kind of report on how good my audio sounds.it
> is
> the ft-101 series original mic.wb7anu
>
> --- t millburne <tmllbrn@...> wrote:
>
> > Hello Ken
> >
> > i wanted to thank you for the mic wiring for the
> > shure 444 to my 950.
> > maybe you can tell me if there is a better mic
> for
> > this rig i have now tried a Heil pr-20 and people
> > said its ok nothing great and the 444 they say is
> > not at all good real weak audio reports.i was
> > wondering if you might have any suggestions a
> couple
> > operators said a D-104 but i heard they dont work
> > well with kenwoods.
> >
> > thanks and 73s
> > Tim
> >
>
>
>
> _____
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

When in doubt, MODIFY...

6302. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 13:01:43 UTC
From: Bill K0ZL
Topic: 6249 Message: 6302

without the paper? Darn, was hoping for a dual-use
mod.

bill

--- Peter A Markavage <pmarkavage@...> wrote:

> I've used a toilet paper roll(without the toilet
> paper) on my MC-50 for
> years. ...

When in doubt, MODIFY...

6303. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 14:26:37 UTC
From: Mike Thornton
Topic: 6293 Message: 6303

Does anyone have a source for 20 ohm resistors? I
can't seem to find them in any of the usual places. I
finally replaced my 4 20 ohm 1/2 watt units with 2 10
ohm 1 watt units until I can find the real thing.

Thanks,

Mike, WC0L

--- Bill Scurlock <k5gcw@...> wrote:

> Art, the total cathode resistance should measure 5
> ohms for proper operation of the finals and for
> metering accuracy. Something has probably gone
> wrong with the 4-20 ohm resistors. By unsoldering
> one end of each resistor you can check their values.
> I just had to replace mine in my TS-830 because
> their values had increased. Good luck.
>
> Bill, K5GCW
> ----- Original Message -----
> From: wb4mnk
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 05, 2006 3:17 PM
> Subject: [TS-520_820_530_830] ts-830s
>
>
> We have a TS-830S and the output would fall off to
> around 80 watts
> on 20 meters from around 105 watts so we order
> some new GE/JAN
> 6146W's and a new 12by7a driver. I installed the
> tubes today and
> turn the rig on and let warm up some and then
> turned the heater
> switch on and was going to let the tubes warm up
> for maybe 20
> minutes before I would try and load the rig up on
> 20 meters. Band
> switch was set for 20 meters and the mode switch
> was in usb. Well
> maybe into warming up for around one minute the
> rig acted like
> something shorted out twice and we turn it off. WE
> replaced the new
> 6146W tubes with the old 6146W tubes and now when

> we checked the
> idle current it goes full scale. I pulled the
> final unit and
> checked r2-r5 which are 20ohm resistors. They all
> check installed in
> the board at 42.9ohms. Could someone please direct
> me into the
> correct area to check and help me get this rig
> back on the air.
> Thanks
>
> 73
> Art
> WB4MNK
>
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on
> the web.
>
> b.. To unsubscribe from this group, send an
> email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
>

>
>
>
> [Non-text portions of this message have been
> removed]
>
>

Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

6304. TS-830S 8PIN Chassis Din Replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 16:54:32 UTC
From: Mark
Topic: 6304 Message: 6304

Hello All,

The plastic inside the chassis din connector has cracked on my TS-830 for the transverter connector. There is also a switch housing that is attached to the din chassis. I see that on Kenwoodparts.com that the part for it has been discontinued. It appears that if I remove the two screws and seperate the socket from the chassis of the radio, and then unsolder all of the wires, the center plastic piece should come out thre front of the connector. I am thinking of getting a standard 8 pin chassis din and using the center plastic piece and inserting it into the old din housing. Has anyone tried this or have a better way of replacing this din connector.

Thanks,

Mark, K9MQ

6305. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 17:07:49 UTC
From: Bill Scurlock
Topic: 6293 Message: 6305

Good Morning Art. I had just done the exact same thing (replaced 6146B's with 6146W's JAN type) a few hours before my cathode resistors blew. However, since I had performed all the neutralizing procedures and loaded up the radio several times with no problem, I think I had a "senior moment" type of thing that caused the resistors to blow. Users much more experienced with these radios than I, tell me there is no problem associated with using 6146W tubes. When I was in there changing out the cathode resistors, I also installed new screen resistors because one of them had changed value, but I don't think this was any part of my problem. Most resistors increase in value with age, so I imagine any you checked in these older radios would show more resistance than when they were new.

One thing I learned in the neutralizing process is that using a 2nd receiver to sense the output can lead to confusing results. I finally switched to my RF Probe and measured the output voltage across the dummy load, and this procedure seemed to give very consistent indications that were not affected by the movements of my body, etc. In my opinion, neutralization should be checked anytime something is moved or replaced on the Final Amp Board. I was told that improper neutralization could cause an oscillation that would produce excessive current that would blow the cathode resistors. These resistors in parallel are rated at 5 ohms at 2 watts power dissipation in order to provide protection for the tubes and power supply just in case someone like me has a "senior moment". I now watch Ip instead of ALC when transmitting so I at least have a chance of detecting if something goes wrong - but these things do happen very fast. Just make sure you know what type of Ip meter swing gives you proper ALC readings.

I was also told to set the idling current in the area of 45ma to 50ma instead of the 60ma specified to increase tube life without really affecting operation. The other caution I got was to limit final current when tuning up to about 225ma instead of the 265ma specified in my manual.

That's about all I know at this point because I just got my TS-830 about 3 weeks ago, and my experience is very limited so far. So maybe someone else with more experience will step in and provide more information as to what other things could cause the cathode resistors to burn up. I do plan to begin some of the alignment procedures after I operate the radio a while. The "go no-go" decision of "B" vs. "W" will have to be yours since I have been told that either one is fine.

Good luck in the contest, and don't let the RTTY duty cycle damage your radio Art.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 05, 2006 11:49 PM
Subject: Re: [TS-520_820_530_830] ts-830s

Hi Bill, Thanks for the reply. You are correct about the 4-20 ohm resistors because that was what was wrong. I replaced all for and the total ohm is now 5.3 ohms. I put in some old

6146B tubes to try it out and things seemed to be ok but these tubes power falls off from 110 watts to around 85 watts. I was kinda afraid to put the new 6146W tubes back in the rig because that was maybe what caused the resisters to fail. These 6146W tubes are new and dated 1987 and we purchased them from Surplus Sales of Nebraska and received them today so I though I would replace the old 6146B tubes with these new 6146W tubes for the week end ARRL RTTY contest. These W tubes are GE/JAN BRAND and I am not sure if I should use them or try and find some B tubes which seem to cost much more than the W tube. Maybe you could help decide what to do because at this point I am not sure. Bill please give me your suggestions and what causes these resistors to fail?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:22 AM
Subject: Re: [TS-520_820_530_830] ts-830s

Art, the total cathode resistance should measure 5 ohms for proper operation of the finals and for metering accuracy. Something has probably gone wrong with the 4-20 ohm resistors. By unsoldering one end of each resistor you can check their values. I just had to replace mine in my TS-830 because their values had increased. Good luck.

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, January 05, 2006 3:17 PM
Subject: [TS-520_820_530_830] ts-830s

We have a TS-830S and the output would fall off to around 80 watts
on 20 meters from around 105 watts so we order some new GE/JAN
6146W's and a new 12by7a driver. I installed the tubes today and
turn the rig on and let warm up some and then turned the heater
switch on and was going to let the tubes warm up for maybe 20
minutes before I would try and load the rig up on 20 meters. Band
switch was set for 20 meters and the mode switch was in usb. Well
maybe into warming up for around one minute the rig acted like
something shorted out twice and we turn it off. WE replaced the new
6146W tubes with the old 6146W tubes and now when we checked the
idle current it goes full scale. I pulled the final unit and
checked r2-r5 which are 20ohm resistors. They all check installed in
the board at 42.9ohms. Could someone please direct me into the
correct area to check and help me get this rig back on the air.
Thanks

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.13/221 - Release Date: 1/4/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6306. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 17:24:28 UTC
From: Bill Scurlock
Topic: 6293 Message: 6306

Hi Mike.

From all I could find out, using 2 - 10 ohm, 1 watt resistors is the common solution, and that is what I did. The first set blew up real fast when I messed up, so they must work ok! I did not check the big parts distributors, so the 20 ohm 1/2 watt resistors may be out there. I have 20 ohm 1 watt resistors in my junk box, but sure glad I didn't use them!

73, Bill, K5GCW
----- Original Message -----
From: Mike Thornton
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 8:26 AM
Subject: Re: [TS-520_820_530_830] ts-830s

Does anyone have a source for 20 ohm resistors? I
can't seem to find them in any of the usual places. I
finally replaced my 4 20 ohm 1/2 watt units with 2 10
ohm 1 watt units until I can find the real thing.

Thanks,

Mike, WC0L

--- Bill Scurlock <k5gcw@...> wrote:

> Art, the total cathode resistance should measure 5
> ohms for proper operation of the finals and for
> metering accuracy. Something has probably gone
> wrong with the 4-20 ohm resistors. By unsoldering
> one end of each resistor you can check their values.
> I just had to replace mine in my TS-830 because
> their values had increased. Good luck.
>
> Bill, K5GCW
> ----- Original Message -----
> From: wb4mnk
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 05, 2006 3:17 PM
> Subject: [TS-520_820_530_830] ts-830s
>
>
> We have a TS-830S and the output would fall off to
> around 80 watts
> on 20 meters from around 105 watts so we order
> some new GE/JAN
> 6146W's and a new 12by7a driver. I installed the
> tubes today and

> turn the rig on and let warm up some and then
> turned the heater
> switch on and was going to let the tubes warm up
> for maybe 20
> minutes before I would try and load the rig up on
> 20 meters. Band
> switch was set for 20 meters and the mode switch
> was in usb. Well
> maybe into warming up for around one minute the
> rig acted like
> something shorted out twice and we turn it off. WE
> replaced the new
> 6146W tubes with the old 6146W tubes and now when
> we checked the
> idle current it goes full scale. I pulled the
> final unit and
> checked r2-r5 which are 20ohm resistors. They all
> check installed in
> the board at 42.9ohms. Could someone please direct
> me into the
> correct area to check and help me get this rig
> back on the air.
> Thanks
>
> 73
> Art
> WB4MNK
>
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on
> the web.
>
> b.. To unsubscribe from this group, send an
> email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
>

>
>
>
> [Non-text portions of this message have been
> removed]
>
>

_____
Yahoo! DSL - Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6307. Re: [TS-520_820_530_830] TS-830S 8PIN Chassis Din Replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 17:50:35 UTC
From: Richard Harris
Topic: 6304 Message: 6307

Mark,

I assume that the connector in question is the 8-pin DIN external VFO connector. Be aware that there are two standards of 8-pin DIN connectors, although if you can change the inner then perhaps you can fit whichever type you have at hand.

I had to make up an external VFO cable for my TS-530 and found that most stockists of 8-pin DIN connectors didn't stock the version that I needed. Fortunately, I managed to track down a supplier, but not before damaging the chassis connector on the VFO through trying to insert the wrong type.

Richard G3OTK

At 16:54 06/01/2006 +0000, you wrote:
>Hello All,
>
>The plastic inside the chassis din connector has cracked on my TS-830
>for the transverter connector. There is also a switch housing that is
>attached to the din chassis. I see that on Kenwoodparts.com that the
>part for it has been discontinued. It appears that if I remove the two
>screws and seperate the socket from the chassis of the radio, and then
>unsolder all of the wires, the center plastic piece should come out
>thre front of the connector. I am thinking of getting a standard 8 pin
>chassis din and using the center plastic piece and inserting it into
>the old din housing. Has anyone tried this or have a better way of
>replacing this din connector.
>
>Thanks,
>
>Mark, K9MQ
>
>
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *

> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6308. R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 18:21:25 UTC
From: wb4mnk
Topic: 6308 Message: 6308

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

6309. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 18:40:23 UTC
From: Peter A Markavage
Topic: 6249 Message: 6309

There were several great sounding phasing type SSB transmitters/exciters
in the 50's. With the introduction of "filters" into the SSB audio chain,
audio quality started to deteriorate.

Pete, wa2cwa

On Fri, 6 Jan 2006 07:47:11 -0500 "Walt Breining" <n9wb@...> writes:
Please tell me what you mean by "that form of receiving"? I will
comment.

You are right. Good sounding transmit audio was not new in the 70's. It
was
always a goal since the beginning of AM. However until the mid 70's most
SSB signals sounded pretty bad. There very likely some other pioneers
prior
to that seriously trying to improve their SSB sound. Not just make it
louder.

Where Heil is today regarding his microphone and Amateur endeavors did
start
in the mid 70's. One point I wanted to make is that Good audio is
nothing
new. And "Good audio is an Amateur Radio tradition, not a crime."

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

[Non-text portions of this message have been removed]

6310. Re: [TS-520_820_530_830] as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 18:41:59 UTC
From: Peter A Markavage
Topic: 6249 Message: 6310

I only use 2-ply. A full roll kept weighing down the mike and the wife thought it looked dumb.

Pete, wa2cwa

On Fri, 6 Jan 2006 05:01:43 -0800 (PST) Bill K0ZL <coorsbill@...> writes:
without the paper? Darn, was hoping for a dual-use mod.

bill

--- Peter A Markavage <pmarkavage@...> wrote:

> I've used a toilet paper roll(without the toilet
> paper) on my MC-50 for
> years. ...

When in doubt, MODIFY...

[Non-text portions of this message have been removed]

6311. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 19:28:36 UTC
From: Bill Scurlock
Topic: 6308 Message: 6311

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6312. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 20:08:18 UTC
From: Arthur Petteway
Topic: 6308 Message: 6312

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

6313. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 20:41:25 UTC
From: Mike Thornton
Topic: 6293 Message: 6313

Bill, thanks. I will probably just stick with the 10
ohm resistors. They work fine.
73,
Mike, WC0L

--- Bill Scurlock <k5gcw@...> wrote:

> Hi Mike.
>
> From all I could find out, using 2 - 10 ohm, 1 watt
> resistors is the common solution, and that is what I
> did. The first set blew up real fast when I messed
> up, so they must work ok! I did not check the big
> parts distributors, so the 20 ohm 1/2 watt resistors
> may be out there. I have 20 ohm 1 watt resistors in
> my junk box, but sure glad I didn't use them!
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Mike Thornton
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, January 06, 2006 8:26 AM
> Subject: Re: [TS-520_820_530_830] ts-830s
>
>
> Does anyone have a source for 20 ohm resistors? I
> can't seem to find them in any of the usual
> places. I
> finally replaced my 4 20 ohm 1/2 watt units with 2
> 10
> ohm 1 watt units until I can find the real thing.
>
> Thanks,
>
> Mike, WC0L
>
> --- Bill Scurlock <k5gcw@...> wrote:
>
> > Art, the total cathode resistance should measure
> 5
> > ohms for proper operation of the finals and for
> > metering accuracy. Something has probably gone
> > wrong with the 4-20 ohm resistors. By
> unsoldering
> > one end of each resistor you can check their

> values.
> > I just had to replace mine in my TS-830 because
> > their values had increased. Good luck.
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: wb4mnk
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Thursday, January 05, 2006 3:17 PM
> > Subject: [TS-520_820_530_830] ts-830s
> >
> >
> > We have a TS-830S and the output would fall
> off to
> > around 80 watts
> > on 20 meters from around 105 watts so we order
> > some new GE/JAN
> > 6146W's and a new 12by7a driver. I installed
> the
> > tubes today and
> > turn the rig on and let warm up some and then
> > turned the heater
> > switch on and was going to let the tubes warm
> up
> > for maybe 20
> > minutes before I would try and load the rig up
> on
> > 20 meters. Band
> > switch was set for 20 meters and the mode
> switch
> > was in usb. Well
> > maybe into warming up for around one minute
> the
> > rig acted like
> > something shorted out twice and we turn it
> off. WE
> > replaced the new
> > 6146W tubes with the old 6146W tubes and now
> when
> > we checked the
> > idle current it goes full scale. I pulled the
> > final unit and
> > checked r2-r5 which are 20ohm resistors. They
> all
> > check installed in
> > the board at 42.9ohms. Could someone please
> direct
> > me into the
> > correct area to check and help me get this rig
> > back on the air.

> > Thanks
> >
> > 73
> > Art
> > WB4MNK
> >
> >
> >
> >
> >
> >
> >
> >
>
>

> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830"
> on
> > the web.
> >
> > b.. To unsubscribe from this group, send an
> > email to:
> >
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to
> the
> > Yahoo! Terms of Service.
> >
> >
> >
>
>

> >
> >
> >
> > [Non-text portions of this message have been
> > removed]
> >
> >
>
>
>
>
> _____
> Yahoo! DSL - Something to write home about.
> Just $16.99/mo. or less.

> dsl.yahoo.com
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on
> the web.
>
> b.. To unsubscribe from this group, send an
> email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
>

>
>
>
> [Non-text portions of this message have been
> removed]
>
>

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

6314. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 21:38:10 UTC
From: Bill Scurlock
Topic: 6308 Message: 6314

Art, the new 6146W tubes I used came as spares with the radio when I bought it. I do not remember for sure who manufactured them, and I can't find their boxes. I do remember that they had the JAN marking on them. I will try again to find their boxes. Thanks for the warning from RF Parts. I went to their website and found what you said, but they didn't give the reason why. My power output is still low, 50 - 80 watts, depending on the band - so my problem is not solved yet. Maybe I should just try 6146B's and see if that is the reason for my low power output problem. More later.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short
between pins 3 and 5 and there is NO short on either tube. Now this
check was done via an ohm meter because I do not have access to a tube
checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1

and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6315. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 23:03:37 UTC
From: Arthur Petteway
Topic: 6308 Message: 6315

Bill, It seems to me we are have the same problem. Before I went to pick up the grandson I tried GE 6146B's and was able to get about 75 watts out then we put in the sav 6146W's and the output was at 60 watts it is almost like the output of one tube instead of two. These checks were on 28.800 10 meters and after I neutralized them. What do you think?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 4:38 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the new 6146W tubes I used came as spares with the radio when I bought it. I do not remember for sure who manufactured them, and I can't find their boxes. I do remember that they had the JAN marking on them. I will try again to find their boxes. Thanks for the warning from RF Parts. I went to their website and found what you said, but they didn't give the reason why. My power output is still low, 50 - 80 watts, depending on the band - so my problem is not solved yet. Maybe I should just try 6146B's and see if that is the reason for my low power output problem. More later.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

6316. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-06 23:49:13 UTC
From: Bill Scurlock
Topic: 6308 Message: 6316

Well, it could be Art. I did find the tube boxes, but all they said was JAN 6146W with no reference to the manufacturer. So guess I will have to open up the radio again and pull the tubes to find out who made them. I have a couple of RCA 6146B's that were pull-outs from something years ago, one new Sylvania 6146B, and 3 matched RCA 6146B spares for my FT-102 (which I don't want to breakup by using any). So....., guess my next step will be to check my old tubes with my Heath Tube Checker and see if I find any shorts or other obvious problems. Wish I had a "real" tube checker.

It is hard for me to compare what good I have done by installing the new tubes because the cathode resistors had changed value (about 7.5 ohms) when the original tubes were installed. When I changed the tubes out was when I found the cathode resistor problem, and changed them to obtain 5 ohms. At least now Ip reads somewhere closer to actual current. As I recall, the tube change and resistor fix only gained about 15-20 watts output. I just had a QSO on 20M this afternoon and all the output I could get was about 55W. It is about 75W on 80M. The indicated HV at idling current is about 910V, and, at tuneup current, it is about 810V. Assuming reasonable meter accuracy, this gives about 160W+ input. Is this similar to what you are getting?

We will be very proficient at neutralizing before this is over! I probably won't have time to mess with all this anymore today Art. Let me know how you come out, and I will do the same. Maybe some expert will step forward and give us an obvious answer to something we are overlooking.

Have a good evening Art. I don't get to see my grandchildren until sunday.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 5:03 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, It seems to me we are have the same problem. Before I went to pick up the grandson I tried GE 6146B's and was able to get about 75 watts out then we put in the sav 6146W's and the output was at 60 watts it is almost like the output of one tube instead of two. These checks were on 28.800 10 meters and after I neutralized them. What do you think?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 4:38 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the new 6146W tubes I used came as spares with the radio when I bought it. I do not remember for sure who manufactured them, and I can't find their boxes. I do remember that they had the JAN marking on them. I will try again to find their boxes. Thanks for the warning from RF Parts. I went to their website and found what you said, but they didn't give the reason why. My power output is still low, 50 - 80 watts, depending on the band - so my problem is not solved yet. Maybe I should just try 6146B's and see if that is the reason for my low power output problem. More later.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6317. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 00:36:45 UTC
From: Arthur Petteway
Topic: 6308 Message: 6317

Bill, OK on the grandson ours is spending the night with grandma and grandpa till tomorrow morning. The high voltage I get from this rig is 890 volts unkeyed and 780 volts keyed. I think the cause is low voltage at the wall plug. I have been trying to find a voltage chart on the tubes pins so we could check that area but I though was in the Manuel but do not find it. If you know what the voltages should be on the pins of the 6146 please let me know. Have a great week end.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 6:49 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Well, it could be Art. I did find the tube boxes, but all they said was JAN 6146W with no reference to the manufacturer. So guess I will have to open up the radio again and pull the tubes to find out who made them. I have a couple of RCA 6146B's that were pull-outs from something years ago, one new Sylvania 6146B, and 3 matched RCA 6146B spares for my FT-102 (which I don't want to breakup by using any). So....., guess my next step will be to check my old tubes with my Heath Tube Checker and see if I find any shorts or other obvious problems. Wish I had a "real" tube checker.

It is hard for me to compare what good I have done by installing the new tubes because the cathode resistors had changed value (about 7.5 ohms) when the original tubes were installed. When I changed the tubes out was when I found the cathode resistor problem, and changed them to obtain 5 ohms. At least now Ip reads somewhere closer to actual current. As I recall, the tube change and resistor fix only gained about 15-20 watts output. I just had a QSO on 20M this afternoon and all the output I could get was about 55W. It is about 75W on 80M. The indicated HV at idling current is about 910V, and, at tuneup current, it is about 810V. Assuming reasonable meter accuracy, this gives about 160W+ input. Is this similar to what you are getting?

We will be very proficient at neutralizing before this is over! I probably won't have time to mess with all this anymore today Art. Let me know how you come out, and I will do the same. Maybe some expert will step forward and give us an obvious answer to something we are overlooking.

Have a good evening Art. I don't get to see my grandchildren until sunday.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 5:03 PM

Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, It seems to me we are have the same problem. Before I went to pick up the grandson I tried GE 6146B's and was able to get about 75 watts out then we put in the sav 6146W's and the output was at 60 watts it is almost like the output of one tube instead of two. These checks were on 28.800 10 meters and after I neutralized them. What do you think?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 4:38 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the new 6146W tubes I used came as spares with the radio when I bought it. I do not remember for sure who manufactured them, and I can't find their boxes. I do remember that they had the JAN marking on them. I will try again to find their boxes. Thanks for the warning from RF Parts. I went to their website and found what you said, but they didn't give the reason why. My power output is still low, 50 - 80 watts, depending on the band - so my problem is not solved yet. Maybe I should just try 6146B's and see if that is the reason for my low power output problem. More later.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----

From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

6318. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 13:01:04 UTC
From: Walt Breining
Topic: 6308 Message: 6318

Art:

Sorry, I've been away from the computer. If you have the rig back as before, I was thinking about screen voltage problems. Th have less output on 10 meters is normal but you are low everywhere.

I usually normally see over 100 watts on all bands to 15 meters. It is usually a bit down on 15 and at least 80 to 90 watts on 10 meters. That is fully peaked for max out into a flat load using a accurate meter. These are conservative readings as often normal is a bit higher.

Now that I know that the output seems to fade, I would think of weak tubes as you have, how since you don't have safe spares to try, It doesn't cost money to check the #2 most likely cause.

I am more familiar with the 820 than the 830 so I am going to look at my very poor copy of the 830 diagram and get back to you on the screen voltage problem.

Are you using the new 12BY7 ?

Probably your choke readings are normal. I should have said, Near Zero.

Vy 73, Walt N9WB

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 06, 2006 3:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

> Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Bill Scurlock
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, January 06, 2006 2:28 PM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure

>
>
> Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2
ohms is probably ok (or else I also have a problem!)
>
> Bill, K5GCW
> ----- Original Message -----
> From: wb4mnk
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, January 06, 2006 12:21 PM
> Subject: [TS-520_820_530_830] R2-R5 Failure
>
>
> Hi Walt,
> Thank you for helping me. OK we checked the new 6146W for a short
> between pins 3 and 5 and there is NO short on either tube. Now this
> check was done via an ohm meter because I do not have access to a tube
> checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1
> and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO
> OHMS it does not look like it has been fried. L1 on the board checks
> 1.8 OHMS. We tried the old tubes and they seem to work OK. These are
> 6146B's which lose power during transmit. Set idle current to 60ma
> with no problem. With the B tubes things seem to be like they were.
>
> Any other suggestions?
>
> 73
> Art
> WB4MNK
>
>
>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> --

>

>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date:
1/5/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>

6319. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 14:24:02 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 6319

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /Checking Finals
Uploaded by : n9wb <n9wb@...>
Description : Suggestions from K0ZL and comments from N9WB

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/Checking%20Finals

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

n9wb <n9wb@...>

6320. Testing Finals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 14:30:40 UTC
From: Walter A. Breining
Topic: 6320 Message: 6320

The following procedure is for checking for weak tubes. I do suggest a tube tester to check for shorts.

Caution: If you suspect that a tube is shorted, do NOT put it in your rig. Walt N9WB

I have also placed the following in the files section of this group for easier future access.

Testing Tubes, a previous post by Bill, K0ZL.

Tube testers cannot be trusted for transmitting tubes.

Here's how I do it.

Hook up to a dummy load, first. This is always the first step in testing a rig as it eliminates the antenna and feedline as a source of trouble, and keeps you legal.

Now locate the SG switch on the back panel and make sure it is ON. If it's OFF, that is the source of your trouble. The SG switch, when OFF, will bias your finals OFF for use with a transverter, or to prevent accidental transmissions (say, when kids are around).

Make sure your FILament switch is on (applies to all except early TS-520 and the TS-530 I think). Tubes should warm up for three minutes.

CHECKING THE FINAL TUBES
Put the rig in SSB mode and transmit. For the TS-820, 530 and 830 only, use the front panel meter to check the HV; should be above 800 volts (meter scale is 0-1000 volts, so needle should be way past mid-scale). Note, that the HV reading only works in TX mode. For all other tube rigs, you will need to use a bench meter to check plate voltage; put that off for now.

Next, locate the plate idle bias current control; on the 520/820 it's in the back of the rig, under the fan; on the 830, it's on the side. On the 530, I forget where it is (someone fill me in).

Go back into TX mode, SSB, and observe the plate idle current. Now, go to Ip and read the plate current. It should be your normal idle current, of 50-60 mA. If not, adjust the bias control until it is. If you

cannot reach 50-60mA, double-check the SG switch. If the SG switch is ON, you have other problems. Stop here.

If you were able to effect normal bias current, then turn the plate bias control ALL THE WAY CLOCKWISE (UP)! QUICKLY observe the new plate current reading, and whether it hangs there, or drops off rather quickly. JUST AS QUICKLY reduce the plate idle bias current back down to 50-60mA and go back to RX mode.

Idle bias should have reached above 200mA. If not, one or both final tubes could be bad, or there are other problems. If the idle bias current came up nice and high, and then dropped off RAPIDLY, you have one or more bad final tubes. Replace them. If the idle current came up and stayed up, or started to decrease very slowly, the finals are good.

Make sure you have attained normal idle bias current of 50-60mA before proceding.

CHECKING THE DRIVER TUBE
Switch the meter to ALC, put the rig in TUNE mode, and then transmit. Peak the ALC reading with the DRIVE tuning control. Adjust with the CAR control as needed to keep the meter between 1/2 and full scale. Go back into RX mode and let the driver tube cool for a few seconds. Now without touching the other controls, go into TX mode again, and observe the action of the ALC meter:

-If it comes up and stays up, the driver tube is fine.

- If it comes up and then drops off rapidly, you have a bad driver tube.

- If you cannot get any ALC reading at all, make sure your filament switch did not get bumped to the OFF position. If you still cannot get any ALC reading, you may have a bad driver or, more likely, something else is wrong; either you are on a WARC band (30, 17 or 12 meters) and the rig has not been enabled for WARC yet, or the RF deck needs alignment or there is a fault somewhere.

By now you should have a pretty good idea of whether your tubes are bad or not. Roughly 80 percent of the rigs that come through my shop for "finals" actually have other things wrong with them and the tubes are fine. 15 percent need a new driver tube, and 5 percent need finals.

Tubes are not cheap, and they are not all that plentiful. Let's try to check them before changing them and help to preserve our supply!

NOTE TO GROUP MEMBERS: THIS text will be part of a "tube condition FAQ" and I need corrections to be sent to me before I "PDF" it. Please keep the new subject line intact so I can pick up all related posts to include in the PDF.

73,

Bill K0ZL

6321. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 15:01:29 UTC
From: Walt Breining
Topic: 6308 Message: 6321

Al:
Either I am getting older or the lines on my poor diagram copy are getting closer. In any event:

After further investigation, the possible screen divider failure I mentioned earlier would only affect the tune mode so It is not the cause of your problem.

However I did find something that might be worth checking.

R-11 a 470 ohm resistor on the Rectifier Unit board. If it were high, it could cause low output.

Caution!
There are capacitors on this board that store high voltage. Follow the following procedure.

Before attempting to work on this take the following precautions.

Unplug the transceiver from AC mains and let it sit for about 5 minutes. Using a clip lead or a screwdriver, short the following terminals on the Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B, C-. The capacitors hold charges. Failure to follow the above procedure can result in injury or death.

It is looking more like the original tubes are weak and one of the new ones is shorted. I have posted a procedure by K0ZL for testing the olde ones. I'd be hesitant to try the new ones again.

6322. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 15:56:59 UTC
From: Bill K0ZL
Topic: 6293 Message: 6322

Hi Art,
Most likely the new final tubes are shorted, poss. due
to shipping damage.

The cathode resistors are blown, as they should read a
total of 5 ohms to ground if all four are good.

bill

--- wb4mnk <wb4mnk@...> wrote:

> We have a TS-830S and the output would fall off to
> around 80 watts
> on 20 meters from around 105 watts so we order some
> new GE/JAN
> 6146W's and a new 12by7a driver. I installed the
> tubes today and
> turn the rig on and let warm up some and then turned
> the heater
> switch on and was going to let the tubes warm up for
> maybe 20
> minutes before I would try and load the rig up on 20
> meters. Band
> switch was set for 20 meters and the mode switch was
> in usb. Well
> maybe into warming up for around one minute the rig
> acted like
> something shorted out twice and we turn it off. WE
> replaced the new
> 6146W tubes with the old 6146W tubes and now when we
> checked the
> idle current it goes full scale. I pulled the final
> unit and
> checked r2-r5 which are 20ohm resistors. They all
> check installed in
> the board at 42.9ohms. Could someone please direct
> me into the
> correct area to check and help me get this rig back
> on the air.
> Thanks
>
> 73
> Art
> WB4MNK
>
>

>
>
>
>

When in doubt, MODIFY...

6323. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 16:08:47 UTC
From: Bill Scurlock
Topic: 6308 Message: 6323

Good Morning Walt. I just installed new JAN 6146W's and a new 12BY7A and am generally experiencing the same low power output problem with my TS-830 as Art - and I have been following your comments.

Where is the best location to measure the screen voltage, and what is an acceptable range of values to expect? I assume this should be done under transmit load conditions. I am familiar with the safety issues in making these types of measurements.

At idle current of about 50ma, my HV is just a little over 900V, and at about 215ma the HV is a little over 800V. I've already changed out the cathode resistors to obtain the 5 ohm total resistance, and I changed out the two screen resistors on the final tube board so they have exactly the same resistance. My power output on 20M is about 55 watts, and on 80M it is about 75 watts.

Your comments would be appreciated. Thanks.

Bill, K5GCW
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 07, 2006 9:01 AM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Al:
Either I am getting older or the lines on my poor diagram copy are getting closer. In any event:

After further investigation, the possible screen divider failure I mentioned earlier would only affect the tune mode so It is not the cause of your problem.

However I did find something that might be worth checking.

R-11 a 470 ohm resistor on the Rectifier Unit board. If it were high, it could cause low output.

Caution!
There are capacitors on this board that store high voltage. Follow the following procedure.

Before attempting to work on this take the following precautions.

Unplug the transceiver from AC mains and let it sit for about 5 minutes. Using a clip lead or a screwdriver, short the following terminals on the Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B, C-. The capacitors hold charges. Failure to follow the above procedure can result in injury or death.

It is looking more like the original tubes are weak and one of the new ones
is shorted. I have posted a procedure by K0ZL for testing the olde ones.
I'd be hesitant to try the new ones again.

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6324. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 17:20:55 UTC
From: Arthur Petteway
Topic: 6308 Message: 6324

Hi Walt, Thanks for the information on R11. We will check it out and see if that could be a problem. On the new 6146W tubes I guess we will call the company I got them from and see if they will replace them.

73
Art
WB4MNK
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 07, 2006 10:01 AM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Al:
Either I am getting older or the lines on my poor diagram copy are getting closer. In any event:

After further investigation, the possible screen divider failure I mentioned earlier would only affect the tune mode so It is not the cause of your problem.

However I did find something that might be worth checking.

R-11 a 470 ohm resistor on the Rectifier Unit board. If it were high, it could cause low output.

Caution!
There are capacitors on this board that store high voltage. Follow the following procedure.

Before attempting to work on this take the following precautions.

Unplug the transceiver from AC mains and let it sit for about 5 minutes. Using a clip lead or a screwdriver, short the following terminals on the Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B, C-. The capacitors hold charges. Failure to follow the above procedure can result in injury or death.

It is looking more like the original tubes are weak and one of the new ones is shorted. I have posted a procedure by K0ZL for testing the olde ones. I'd be hesitant to try the new ones again.

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

6325. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 19:19:25 UTC
From: Stephen Goldberg
Topic: 6308 Message: 6325

I'm wondering if you are measuring CW output or peak SSB output. If you are measuring SSB on an averaging meter your output will be about 1/2 CW. I've been using 6146W tubes in my TS-530 and FT-901DM (Philips in one and GE in the other) for a number of years and get 100W+ output on CW.

Steve W4IMF

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 07, 2006 12:20 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

> Hi Walt, Thanks for the information on R11. We will check it out and see if that could be a problem. On the new 6146W tubes I guess we will call the company I got them from and see if they will replace them.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 10:01 AM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> Al:
> Either I am getting older or the lines on my poor diagram copy are getting
> closer. In any event:
>
> After further investigation, the possible screen divider failure I mentioned
> earlier would only affect the tune mode so It is not the cause of your
> problem.
>
> However I did find something that might be worth checking.
>
> R-11 a 470 ohm resistor on the Rectifier Unit board. If it were high, it
> could cause low output.
>
> Caution!
> There are capacitors on this board that store high voltage. Follow the
> following procedure.
>

> Before attempting to work on this take the following precautions.
>
> Unplug the transceiver from AC mains and let it sit for about 5 minutes.
> Using a clip lead or a screwdriver, short the following terminals on the
> Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B, C-.
The
> capacitors hold charges. Failure to follow the above procedure can
result in
> injury or death.
>
> It is looking more like the original tubes are weak and one of the new
ones
> is shorted. I have posted a procedure by K0ZL for testing the olde
ones.
> I'd be hesitant to try the new ones again.
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
1/6/2006

>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/06

6326. Shure 444 info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 21:09:17 UTC
From: Walter A. Breining
Topic: 6326 Message: 6326

For those who are seeking Shure 444 information. I finally have the datasheet for the Shure 444 D on KenwoodMics at the following link. This the dual impedance version.

http://groups.yahoo.com/group/KenwoodMics/files/Shure%20444/

I have the data sheet for the 444 high impedance only version but it is in PDF and I am unable to figure out to convert it to a format that Yahoo Groups will accept. If you need it e-mail me and I will send the PDF file to you.

Walt N9WB

6327. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 22:04:03 UTC
From: Arthur Petteway
Topic: 6308 Message: 6327

Hi Stephen, Have you tried the GE/JAN 6146W in your TS-530? The problem I had with these tubes is after putting them in the rig I turned the TS-830S on and then turned the Heater switch on and in around a minute then took out R2-R5 on the Final unit board. I assume the tubes are shorted to cause this. Have you ever had this problem ?

73
Art
WB4MNK
----- Original Message -----
From: Stephen Goldberg
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 07, 2006 2:19 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

I'm wondering if you are measuring CW output or peak SSB output. If you are measuring SSB on an averaging meter your output will be about 1/2 CW. I've been using 6146W tubes in my TS-530 and FT-901DM (Philips in one and GE in the other) for a number of years and get 100W+ output on CW.

Steve W4IMF

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 07, 2006 12:20 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

> Hi Walt, Thanks for the information on R11. We will check it out and see if that could be a problem. On the new 6146W tubes I guess we will call the company I got them from and see if they will replace them.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 10:01 AM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> Al:
> Either I am getting older or the lines on my poor diagram copy are getting
> closer. In any event:
>

> After further investigation, the possible screen divider failure I
mentioned
> earlier would only affect the tune mode so It is not the cause of your
> problem.
>
> However I did find something that might be worth checking.
>
> R-11 a 470 ohm resistor on the Rectifier Unit board. If it were high, it
> could cause low output.
>
> Caution!
> There are capacitors on this board that store high voltage. Follow the
> following procedure.
>
> Before attempting to work on this take the following precautions.
>
> Unplug the transceiver from AC mains and let it sit for about 5 minutes.
> Using a clip lead or a screwdriver, short the following terminals on the
> Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B, C-.
The
> capacitors hold charges. Failure to follow the above procedure can
result in
> injury or death.
>
> It is looking more like the original tubes are weak and one of the new
ones
> is shorted. I have posted a procedure by K0ZL for testing the olde
ones.
> I'd be hesitant to try the new ones again.
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>

> --

>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
1/6/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/06

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

6328. Re: [TS-520_820_530_830] Digest Number 970

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-07 22:19:58 UTC
From: catboat15@aol.com
Topic: 6328 Message: 6328

In a message dated 1/6/2006 3:25:11 P.M. Pacific Standard Time,
TS-520_820_530_830@yahoogroups.com writes:

Has anyone heard if this resolved John's problem ?

I got the answer from the list guru OK. Should have been "Look in the
manual, Stupid!"
I must have turned the trimmer on the side when I was adjusting the plate
current to the 60 ma called for. The two adjustments (as well as Vox
adjustments) are on the side under a plate and hard to see with the set on my table.
Now everything is working the way it is supposed to.
Still want to replace my random length wire to the tall cottonwood out in
the back yard with a proper dipole, but the XYL tells me no roof work since I
can and do fall in the living room. (Getting old is not for sissies, but it
beats the other choice)

John Meacham
in the high desert of California
73
de k6suf

[Non-text portions of this message have been removed]

6329. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 00:21:42 UTC
From: Stephen Goldberg
Topic: 6308 Message: 6329

Art,
Yes the 530 has been running with GE 6146W finals for almost 7 years with no problem. Tried a pair of Chinese 6146Bs first and they shorted as soon as I tried to tune up. Replaced them with the GEs from RF Parts. They had no warnings about them at that time. I burned them in for 24 hours with filaments on but no transmission and they've been going strong ever since.

Steve W4IMF

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 07, 2006 5:04 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

> Hi Stephen, Have you tried the GE/JAN 6146W in your TS-530? The problem I had with these tubes is after putting them in the rig I turned the TS-830S on and then turned the Heater switch on and in around a minute then took out R2-R5 on the Final unit board. I assume the tubes are shorted to cause this. Have you ever had this problem ?
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Stephen Goldberg
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 2:19 PM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> I'm wondering if you are measuring CW output or peak SSB output. If you are
> measuring SSB on an averaging meter your output will be about 1/2 CW. I've
> been using 6146W tubes in my TS-530 and FT-901DM (Philips in one and GE in
> the other) for a number of years and get 100W+ output on CW.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: "Arthur Petteway" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, January 07, 2006 12:20 PM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure

>
>
> > Hi Walt, Thanks for the information on R11. We will check it out and
see
> if that could be a problem. On the new 6146W tubes I guess we will call
the
> company I got them from and see if they will replace them.
> >
> > 73
> > Art
> > WB4MNK
> > ----- Original Message -----
> > From: Walt Breining
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, January 07, 2006 10:01 AM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> >
> >
> > Al:
> > Either I am getting older or the lines on my poor diagram copy are
> getting
> > closer. In any event:
> >
> > After further investigation, the possible screen divider failure I
> mentioned
> > earlier would only affect the tune mode so It is not the cause of
your
> > problem.
> >
> > However I did find something that might be worth checking.
> >
> > R-11 a 470 ohm resistor on the Rectifier Unit board. If it were
high, it
> > could cause low output.
> >
> > Caution!
> > There are capacitors on this board that store high voltage. Follow
the
> > following procedure.
> >
> > Before attempting to work on this take the following precautions.
> >
> > Unplug the transceiver from AC mains and let it sit for about 5
minutes.
> > Using a clip lead or a screwdriver, short the following terminals on
the
> > Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B,
C-.
> The
> > capacitors hold charges. Failure to follow the above procedure can

> result in
> > injury or death.
> >
> > It is looking more like the original tubes are weak and one of the
new
> ones
> > is shorted. I have posted a procedure by K0ZL for testing the olde
> ones.
> > I'd be hesitant to try the new ones again.
> >
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
>

> ---
> ----
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
>

> ---
> ----
> >
> >
> >
> >
>

> ---
> ----
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
> 1/6/2006
> >

> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> --
> Certified Virus Free.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/06
>
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
1/6/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/06

6330. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 00:33:48 UTC
From: Bill Scurlock
Topic: 6308 Message: 6330

Art, I spent the afternoon making a bunch of measurements, and have about concluded that my low power output is not tube related. I changed out the 6146W's for some old Sylvania 6146B's and got the same power output on 20M (55W) and on 80M (75W). I spent several hours measuring the 6146 HV, Screen voltage, and Grid bias under both receive and transmit conditions. Also the 210A and 300B voltages on the power board. All looked at least as high as shown on the schematic drawing, and very close to the values indicated. So I'm back to square one for now.

We're going to a movie. Probably be back on this next week. 73,

Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 07, 2006 11:20 AM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Hi Walt, Thanks for the information on R11. We will check it out and see if that could be a problem. On the new 6146W tubes I guess we will call the company I got them from and see if they will replace them.

73
Art
WB4MNK
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 07, 2006 10:01 AM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Al:
Either I am getting older or the lines on my poor diagram copy are getting closer. In any event:

After further investigation, the possible screen divider failure I mentioned earlier would only affect the tune mode so It is not the cause of your problem.

However I did find something that might be worth checking.

R-11 a 470 ohm resistor on the Rectifier Unit board. If it were high, it could cause low output.

Caution!
There are capacitors on this board that store high voltage. Follow the following procedure.

Before attempting to work on this take the following precautions.

Unplug the transceiver from AC mains and let it sit for about 5 minutes. Using a clip lead or a screwdriver, short the following terminals on the Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B, C-. The capacitors hold charges. Failure to follow the above procedure can result in injury or death.

It is looking more like the original tubes are weak and one of the new ones is shorted. I have posted a procedure by K0ZL for testing the olde ones. I'd be hesitant to try the new ones again.

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6331. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 00:40:18 UTC
From: pmertens
Topic: 6308 Message: 6331

How are you measuring the output power ? On a 50 watt dummy load ?

Patrick - ON4NY

Le Sun, 08 Jan 2006 01:33:48 +0100, Bill Scurlock <k5gcw@...> a
?crit:

> Art, I spent the afternoon making a bunch of measurements, and have
> about concluded that my low power output is not tube related. I changed
> out the 6146W's for some old Sylvania 6146B's and got the same power
> output on 20M (55W) and on 80M (75W). I spent several hours measuring
> the 6146 HV, Screen voltage, and Grid bias under both receive and
> transmit conditions. Also the 210A and 300B voltages on the power
> board. All looked at least as high as shown on the schematic drawing,
> and very close to the values indicated. So I'm back to square one for
> now.
>
> We're going to a movie. Probably be back on this next week. 73,
>
> Bill, K5GCW
> ----- Original Message -----
> From: Arthur Petteway
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 11:20 AM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> Hi Walt, Thanks for the information on R11. We will check it out and
> see if that could be a problem. On the new 6146W tubes I guess we will
> call the company I got them from and see if they will replace them.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 10:01 AM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> Al:
> Either I am getting older or the lines on my poor diagram copy are
> getting
> closer. In any event:
>

> After further investigation, the possible screen divider failure I
> mentioned
> earlier would only affect the tune mode so It is not the cause of
> your
> problem.
>
> However I did find something that might be worth checking.
>
> R-11 a 470 ohm resistor on the Rectifier Unit board. If it were
> high, it
> could cause low output.
>
> Caution!
> There are capacitors on this board that store high voltage. Follow
> the
> following procedure.
>
> Before attempting to work on this take the following precautions.
>
> Unplug the transceiver from AC mains and let it sit for about 5
> minutes.
> Using a clip lead or a screwdriver, short the following terminals on
> the
> Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B,
> C-. The
> capacitors hold charges. Failure to follow the above procedure can
> result in
> injury or death.
>
> It is looking more like the original tubes are weak and one of the
> new ones
> is shorted. I have posted a procedure by K0ZL for testing the olde
> ones.
> I'd be hesitant to try the new ones again.
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.

> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
> 1/6/2006
>
> [Non-text portions of this message have been removed]
>
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
> [Non-text portions of this message have been removed]
>
> Yahoo! Groups Links
>

--

Patrick MERTENS
Licenci? en Sciences - Master in Sciences

T?l.: 010 65 76 86 - pmertens@...

6332. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 00:47:24 UTC
From: pmertens
Topic: 6308 Message: 6332

Sorry: 50 ohm load...

PAtrick - ON4NY

Le Sun, 08 Jan 2006 01:40:18 +0100, pmertens <pmertens@...> a ?crit:

> How are you measuring the output power ? On a 50 watt dummy load ?
>
> Patrick - ON4NY
>
>
>
> Le Sun, 08 Jan 2006 01:33:48 +0100, Bill Scurlock <k5gcw@...> a
> ?crit:
>
>> Art, I spent the afternoon making a bunch of measurements, and have
>> about concluded that my low power output is not tube related. I changed
>> out the 6146W's for some old Sylvania 6146B's and got the same power
>> output on 20M (55W) and on 80M (75W). I spent several hours measuring
>> the 6146 HV, Screen voltage, and Grid bias under both receive and
>> transmit conditions. Also the 210A and 300B voltages on the power
>> board. All looked at least as high as shown on the schematic drawing,
>> and very close to the values indicated. So I'm back to square one for
>> now.
>>
>> We're going to a movie. Probably be back on this next week. 73,
>>
>> Bill, K5GCW
>> ----- Original Message -----
>> From: Arthur Petteway
>> To: TS-520_820_530_830@yahoogroups.com
>> Sent: Saturday, January 07, 2006 11:20 AM
>> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>>
>>
>> Hi Walt, Thanks for the information on R11. We will check it out and
>> see if that could be a problem. On the new 6146W tubes I guess we will
>> call the company I got them from and see if they will replace them.
>>
>> 73
>> Art
>> WB4MNK
>> ----- Original Message -----
>> From: Walt Breining
>> To: TS-520_820_530_830@yahoogroups.com
>> Sent: Saturday, January 07, 2006 10:01 AM

>> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>>
>>
>> Al:
>> Either I am getting older or the lines on my poor diagram copy are
>> getting
>> closer. In any event:
>>
>> After further investigation, the possible screen divider failure I
>> mentioned
>> earlier would only affect the tune mode so It is not the cause of
>> your
>> problem.
>>
>> However I did find something that might be worth checking.
>>
>> R-11 a 470 ohm resistor on the Rectifier Unit board. If it were
>> high, it
>> could cause low output.
>>
>> Caution!
>> There are capacitors on this board that store high voltage. Follow
>> the
>> following procedure.
>>
>> Before attempting to work on this take the following precautions.
>>
>> Unplug the transceiver from AC mains and let it sit for about 5
>> minutes.
>> Using a clip lead or a screwdriver, short the following terminals on
>> the
>> Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B,
>> C-. The
>> capacitors hold charges. Failure to follow the above procedure can
>> result in
>> injury or death.
>>
>> It is looking more like the original tubes are weak and one of the
>> new ones
>> is shorted. I have posted a procedure by K0ZL for testing the olde
>> ones.
>> I'd be hesitant to try the new ones again.
>>
>>
>>
>>
>> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>> Icom ham radio Yaesu ham radio
>>
>>

>> --
>> YAHOO! GROUPS LINKS
>>
>> a.. Visit your group "TS-520_820_530_830" on the web.
>> b.. To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service.
>>
>>
>> --
>>
>>
>>
>>
>> --
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG Free Edition.
>> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
>> 1/6/2006
>>
>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>> --
>> YAHOO! GROUPS LINKS
>>
>> a.. Visit your group "TS-520_820_530_830" on the web.
>> b.. To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service.
>>
>>
>> --
>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>

>>
>>
>>
>
>
>

--

_____
Patrick MERTENS
Licenci? en Sciences - Master in Sciences
T?l.: 010 65 76 86 - pmertens@...

6333. RE: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 01:46:46 UTC
From: Hauser, Ron M.
Topic: 6299 Message: 6333

Hi Art. I got a TS-830S recently and found that it had pretty soft
power. After good advice from this group, I checked r2-r5 and found
that they were all out of spec. Nothing was out and out fried, but they
were way out of tolerance. When pulling them out of the board, most of
them crumbled. I interpret this to be long term degradation due to heat
off of the tubes.

Anyway, in my case after replacing the resistors, I was back at a good
solid 100W with the same old same old tubes. I bring this up in the
context of Walt's question about how you decided your tubes were soft to
begin with... Might your "old" tubes have been solid and your r2-r5 have
been degraded? Perhaps also if your r2-r5 were degraded, then the hot
might have just pushed them over the edge. It will be very interesting
to see the results of your tests, please post them.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Friday, January 06, 2006 6:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] ts-830S

Probably, one or more of your new tubes has a screen to control grid
short.
This
placed high screen voltage on the control grid that should be biased
near
cut off with negative voltage. When the filaments warmed, the tube
started
conducting violently causing excessive current through the cathode
resistors
R2, R3, R4, and R5.

These resistors serve as shunt resistors for the IP meter and also act
as
fuses
in the event of a short like the one that happened to you.

You should replace R2, R3, R4, and R5.
Do not use resistors except 1/2 watt, the same wattage as the originals.
Do
NOT use larger resistors because they will not blow if needed and do

major
damage if this were to happen again.

Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2 coil should
check 0 ohms. If it checks open, it is fried. Also look closely for cracks
or any indication that it is badly fried. If it looks like it has gotten
hot, not just dirt on it, it could be shorted.

Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is checked
the same way as L2. Observe PS 1 and PS 2. These are two parasitic chokes
wound around a resistor. It is not likely that these were damaged and the
wire or the resistor inside will look like it has been overheated if they
are damaged. They may be covered. If so and the cover does not look burnt,
don't
worry about them for now.

After doing the above put your ORIGINAL tubes in and try again. After the
filaments warm up, key up in SSB with mike gain fully down and see if you
can set your bias control for 60 ma IP.

Let us know what happens. Even if the rig is now back to it's original
condition, get back with us.

I am interested as to why you concluded that the tubes were bad and what
type and make the originals were. 6146 and S-2001 types do not go bad as
often as the 6JS6 tubes in Yaesus do unless the rig has been hot rodded. I
am not as familiar with the TS 830 as I am the 820, but screen supply
problems can cause low output. I can help you check that.

Remember that the SG switch on the back has to be on. It often gets bumped
while servicing.

To check the new tubes for shorts, check ohms between pin 3 and 5 with the
tube removed. If it shows anything but an open, it is shorted. If it shows
a very high resistance, like 100k ohms or more, check to be sure that your
fingers are not touching the probes. Likely you will be measuring
yourself.

With the bottom of the tube facing you, you will see a pin with a key
along
the side. This lines up with the key hole in the socket to establish
tube
rotation.

Still with the bottom facing you count clockwise from the key. The first
pin
clockwise from the key is pin 1 the last pin clockwise is pin 8.

Pin 3 is the screen grid and pin 5 is the control grid. These are the
pins
where the short will be.

If the tubes show a short, they are shorted. If they show a open, they
may
still be shorted and should be checked in a Tube Tester for shorts
before
trying them again. Do not be too quick to have a public hanging of the
person who sold you these tubes. These grids can often short during
shipment and handling. Some makes and types tend to do this more than
others.

BTW, does everybody understand how a tube works basically?

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "wb4mnk" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 4:17 PM
Subject: [TS-520_820_530_830] ts-830s

> We have a TS-830S and the output would fall off to around 80 watts
> on 20 meters from around 105 watts so we order some new GE/JAN
> 6146W's and a new 12by7a driver. I installed the tubes today and
> turn the rig on and let warm up some and then turned the heater
> switch on and was going to let the tubes warm up for maybe 20
> minutes before I would try and load the rig up on 20 meters. Band
> switch was set for 20 meters and the mode switch was in usb. Well
> maybe into warming up for around one minute the rig acted like
> something shorted out twice and we turn it off. WE replaced the new
> 6146W tubes with the old 6146W tubes and now when we checked the
> idle current it goes full scale. I pulled the final unit and
> checked r2-r5 which are 20ohm resistors. They all check installed in
> the board at 42.9ohms. Could someone please direct me into the
> correct area to check and help me get this rig back on the air.
> Thanks
>
> 73
> Art
> WB4MNK

>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

Yahoo! Groups Links

6334. RE: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 01:46:49 UTC
From: Hauser, Ron M.
Topic: 6293 Message: 6334

Hi Mike. I had to do the R2-R5 replace, and when I counted up the price for four of them, plus four spares, it was basically cheaper to buy a hundred. I bought them from Mouser for something like six bucks. www.mouser.com

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Mike Thornton
Sent: Friday, January 06, 2006 8:27 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] ts-830s

Does anyone have a source for 20 ohm resistors? I
can't seem to find them in any of the usual places. I
finally replaced my 4 20 ohm 1/2 watt units with 2 10
ohm 1 watt units until I can find the real thing.

Thanks,

Mike, WC0L

--- Bill Scurlock <k5gcw@sbcglobal.net> wrote:

> Art, the total cathode resistance should measure 5
> ohms for proper operation of the finals and for
> metering accuracy. Something has probably gone
> wrong with the 4-20 ohm resistors. By unsoldering
> one end of each resistor you can check their values.
> I just had to replace mine in my TS-830 because
> their values had increased. Good luck.
>
> Bill, K5GCW
> ----- Original Message -----
> From: wb4mnk
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, January 05, 2006 3:17 PM
> Subject: [TS-520_820_530_830] ts-830s
>
>
> We have a TS-830S and the output would fall off to
> around 80 watts
> on 20 meters from around 105 watts so we order
> some new GE/JAN
> 6146W's and a new 12by7a driver. I installed the
> tubes today and
> turn the rig on and let warm up some and then

> turned the heater
> switch on and was going to let the tubes warm up
> for maybe 20
> minutes before I would try and load the rig up on
> 20 meters. Band
> switch was set for 20 meters and the mode switch
> was in usb. Well
> maybe into warming up for around one minute the
> rig acted like
> something shorted out twice and we turn it off. WE
> replaced the new
> 6146W tubes with the old 6146W tubes and now when
> we checked the
> idle current it goes full scale. I pulled the
> final unit and
> checked r2-r5 which are 20ohm resistors. They all
> check installed in
> the board at 42.9ohms. Could someone please direct
> me into the
> correct area to check and help me get this rig
> back on the air.
> Thanks
>
> 73
> Art
> WB4MNK
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on
> the web.
>
> b.. To unsubscribe from this group, send an
> email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
>

>
>
>
> [Non-text portions of this message have been
> removed]
>
>

_____
Yahoo! DSL - Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

Yahoo! Groups Links

6335. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 01:55:24 UTC
From: carboyhat@juno.com
Topic: 6293 Message: 6335

Allelectronics carries these resistors, 10 for .50 USD. They give good
service. They are on the web at: allelectronics.com

73 de Bob, AA4AI, Watkinsville, GA

On Fri, 6 Jan 2006 06:26:37 -0800 (PST) Mike Thornton <wc0l@...>
writes:
> Does anyone have a source for 20 ohm resistors? I
> can't seem to find them in any of the usual places. I
> finally replaced my 4 20 ohm 1/2 watt units with 2 10
> ohm 1 watt units until I can find the real thing.
>
> Thanks,
>
> Mike, WC0L
>

6336. RE: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 02:11:27 UTC
From: Walter Milton
Topic: 6308 Message: 6336

Bill,

I also have one NOB Sylvania 6146B. Are you willing to sell the one you have? If so contact me off list at wmilton@....

Thanks,
Walt KA2NJF
-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Bill Scurlock
Sent: Friday, January 06, 2006 6:49 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Well, it could be Art. I did find the tube boxes, but all they said was JAN 6146W with no reference to the manufacturer. So guess I will have to open up the radio again and pull the tubes to find out who made them. I have a couple of RCA 6146B's that were pull-outs from something years ago, one new Sylvania 6146B, and 3 matched RCA 6146B spares for my FT-102 (which I don't want to breakup by using any). So....., guess my next step will be to check my old tubes with my Heath Tube Checker and see if I find any shorts or other obvious problems. Wish I had a "real" tube checker.

It is hard for me to compare what good I have done by installing the new tubes because the cathode resistors had changed value (about 7.5 ohms) when the original tubes were installed. When I changed the tubes out was when I found the cathode resistor problem, and changed them to obtain 5 ohms. At least now Ip reads somewhere closer to actual current. As I recall, the tube change and resistor fix only gained about 15-20 watts output. I just had a QSO on 20M this afternoon and all the output I could get was about 55W. It is about 75W on 80M. The indicated HV at idling current is about 910V, and, at tuneup current, it is about 810V. Assuming reasonable meter accuracy, this gives about 160W+ input. Is this similar to what you are getting?

We will be very proficient at neutralizing before this is over! I probably won't have time to mess with all this anymore today Art. Let me know how you come out, and I will do the same. Maybe some expert will step forward and give us an obvious answer to something we are overlooking.

Have a good evening Art. I don't get to see my grandchildren until sunday.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com

Sent: Friday, January 06, 2006 5:03 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, It seems to me we are have the same problem. Before I went to pick up the grandson I tried GE 6146B's and was able to get about 75 watts out then we put in the sav 6146W's and the output was at 60 watts it is almost like the output of one tube instead of two. These checks were on 28.800 10 meters and after I neutralized them. What do you think?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 4:38 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the new 6146W tubes I used came as spares with the radio when I bought it. I do not remember for sure who manufactured them, and I can't find their boxes. I do remember that they had the JAN marking on them. I will try again to find their boxes. Thanks for the warning from RF Parts. I went to their website and found what you said, but they didn't give the reason why. My power output is still low, 50 - 80 watts, depending on the band - so my problem is not solved yet. Maybe I should just try 6146B's and see if that is the reason for my low power output problem. More later.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short
between pins 3 and 5 and there is NO short on either tube. Now this
check was done via an ohm meter because I do not have access to a tube
checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1
and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO
OHMS it does not look like it has been fried. L1 on the board checks
1.8 OHMS. We tried the old tubes and they seem to work OK. These are
6146B's which lose power during transmit. Set idle current to 60ma
with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date:
1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date:
1/5/2006

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

6337. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 05:26:19 UTC
From: Bill Scurlock
Topic: 6308 Message: 6337

Hi Patrick.

Thanks for the un-intended humor - I needed that. It's a nice old 500 watt 50 ohm dummy load that works with my wattmeter to indicate accurate power output from my other radios such as Icom 751A and Collins KWS-1, so I'm not suspect of it right now. But knowing that "Murphy" is always around, I had already decided to rig up another metering arrangement next week just to make absolutely sure. I've also loaded up into a well matched antenna on 75M and I get virtually the same indicated output from the TS-830. Have a good weekend Patrick.

73, Bill, K5GCW
----- Original Message -----
From: "pmertens" <pmertens@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 07, 2006 6:47 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

> Sorry: 50 ohm load...
>
> PAtrick - ON4NY
>
> Le Sun, 08 Jan 2006 01:40:18 +0100, pmertens <pmertens@...> a ?crit:
>
>> How are you measuring the output power ? On a 50 watt dummy load ?
>>
>> Patrick - ON4NY
>>
>>
>>
>> Le Sun, 08 Jan 2006 01:33:48 +0100, Bill Scurlock <k5gcw@...> a
>> ?crit:
>>
>>> Art, I spent the afternoon making a bunch of measurements, and have
>>> about concluded that my low power output is not tube related. I changed
>>> out the 6146W's for some old Sylvania 6146B's and got the same power
>>> output on 20M (55W) and on 80M (75W). I spent several hours measuring
>>> the 6146 HV, Screen voltage, and Grid bias under both receive and
>>> transmit conditions. Also the 210A and 300B voltages on the power
>>> board. All looked at least as high as shown on the schematic drawing,
>>> and very close to the values indicated. So I'm back to square one for
>>> now.
>>>
>>> We're going to a movie. Probably be back on this next week. 73,
>>>
>>> Bill, K5GCW

>>> ----- Original Message -----
>>> From: Arthur Petteway
>>> To: TS-520_820_530_830@yahoogroups.com
>>> Sent: Saturday, January 07, 2006 11:20 AM
>>> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>>>
>>>
>>> Hi Walt, Thanks for the information on R11. We will check it out and
>>> see if that could be a problem. On the new 6146W tubes I guess we will
>>> call the company I got them from and see if they will replace them.
>>>
>>> 73
>>> Art
>>> WB4MNK
>>> ----- Original Message -----
>>> From: Walt Breining
>>> To: TS-520_820_530_830@yahoogroups.com
>>> Sent: Saturday, January 07, 2006 10:01 AM
>>> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>>>
>>>
>>> Al:
>>> Either I am getting older or the lines on my poor diagram copy are
>>> getting
>>> closer. In any event:
>>>
>>> After further investigation, the possible screen divider failure I
>>> mentioned
>>> earlier would only affect the tune mode so It is not the cause of
>>> your
>>> problem.
>>>
>>> However I did find something that might be worth checking.
>>>
>>> R-11 a 470 ohm resistor on the Rectifier Unit board. If it were
>>> high, it
>>> could cause low output.
>>>
>>> Caution!
>>> There are capacitors on this board that store high voltage. Follow
>>> the
>>> following procedure.
>>>
>>> Before attempting to work on this take the following precautions.
>>>
>>> Unplug the transceiver from AC mains and let it sit for about 5
>>> minutes.
>>> Using a clip lead or a screwdriver, short the following terminals on
>>> the
>>> Rectifier unit board to chassis ground. HV, 800, 300, 210A, 210B,

>>> C-. The
>>> capacitors hold charges. Failure to follow the above procedure can
>>> result in
>>> injury or death.
>>>
>>> It is looking more like the original tubes are weak and one of the
>>> new ones
>>> is shorted. I have posted a procedure by K0ZL for testing the olde
>>> ones.
>>> I'd be hesitant to try the new ones again.
>>>
>>>
>>>
>>>
>>> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>>> Icom ham radio Yaesu ham radio
>>>
>>>
>>> ---
>>> YAHOO! GROUPS LINKS
>>>
>>> a.. Visit your group "TS-520_820_530_830" on the web.
>>> b.. To unsubscribe from this group, send an email to:
>>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>>> Service.
>>>
>>>
>>> ---
>>>
>>>
>>>
>>>
>>> ---
>>>
>>>
>>> No virus found in this incoming message.
>>> Checked by AVG Free Edition.
>>> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
>>> 1/6/2006
>>>
>>>
>>> [Non-text portions of this message have been removed]
>>>
>>>
>>>
>>> ---
>>> YAHOO! GROUPS LINKS
>>>
>>> a.. Visit your group "TS-520_820_530_830" on the web.

>>> b.. To unsubscribe from this group, send an email to:
>>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>>> Service.
>>>
>>>
>>> ---
>>>
>>>
>>>
>>> [Non-text portions of this message have been removed]
>>>
>>>
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>
>>>
>>
>>
>>
>
>
>
> --
> _____
> Patrick MERTENS
> Licenci? en Sciences - Master in Sciences
> T?l.: 010 65 76 86 - pmertens@...
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6338. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 05:37:31 UTC
From: Bill Scurlock
Topic: 6308 Message: 6338

Art, in searching for the voltage info today, I looked at the schematic and that info is on there. If you have not downloaded the schematic yet, let me know and I will try to send it to you as an email attachment. Please respond to my email address k5gcw@... and be sure to give me your direct email address so we can do this off the reflector.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 6:36 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, OK on the grandson ours is spending the night with grandma and grandpa till tomorrow morning. The high voltage I get from this rig is 890 volts unkeyed and 780 volts keyed. I think the cause is low voltage at the wall plug. I have been trying to find a voltage chart on the tubes pins so we could check that area but I though was in the Manuel but do not find it. If you know what the voltages should be on the pins of the 6146 please let me know. Have a great week end.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 6:49 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Well, it could be Art. I did find the tube boxes, but all they said was JAN 6146W with no reference to the manufacturer. So guess I will have to open up the radio again and pull the tubes to find out who made them. I have a couple of RCA 6146B's that were pull-outs from something years ago, one new Sylvania 6146B, and 3 matched RCA 6146B spares for my FT-102 (which I don't want to breakup by using any). So....., guess my next step will be to check my old tubes with my Heath Tube Checker and see if I find any shorts or other obvious problems. Wish I had a "real" tube checker.

It is hard for me to compare what good I have done by installing the new tubes because the cathode resistors had changed value (about 7.5 ohms) when the original tubes were installed. When I changed the tubes out was when I found the cathode resistor problem, and changed them to obtain 5 ohms. At least now Ip reads somewhere closer to actual current. As I recall, the tube change and resistor fix only gained about 15-20 watts output. I just had a QSO on 20M this afternoon and all the output I could get was about 55W. It is about 75W on 80M. The indicated HV at idling current is about 910V, and, at tuneup current, it is about 810V. Assuming reasonable meter accuracy, this gives about 160W+ input. Is this similar to what you are getting?

We will be very proficient at neutralizing before this is over! I probably won't have time to mess with all this anymore today Art. Let me know how you come out, and I will do the same. Maybe some expert will step forward and give us an obvious answer to something we are overlooking.

Have a good evening Art. I don't get to see my grandchildren until sunday.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 5:03 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, It seems to me we are have the same problem. Before I went to pick up the grandson I tried GE 6146B's and was able to get about 75 watts out then we put in the sav 6146W's and the output was at 60 watts it is almost like the output of one tube instead of two. These checks were on 28.800 10 meters and after I neutralized them. What do you think?

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 4:38 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the new 6146W tubes I used came as spares with the radio when I bought it. I do not remember for sure who manufactured them, and I can't find their boxes. I do remember that they had the JAN marking on them. I will try again to find their boxes. Thanks for the warning from RF Parts. I went to their website and found what you said, but they didn't give the reason why. My power output is still low, 50 - 80 watts, depending on the band - so my problem is not solved yet. Maybe I should just try 6146B's and see if that is the reason for my low power output problem. More later.

73, Bill, K5GCW
----- Original Message -----
From: Arthur Petteway
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:08 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Bill, Thanks for the info on L2. The meter I use is kinda cheap so not sure how accurate but probably pretty close from what reading I get to what it should be. Did you say you were also using GE/Jan 6146W tubes? There has to be some problem I am missing so right now we are waiting on Walt to see what the next step will be. I was looking at the 6146W tubes at RF PARTS and saw a recommendation that the 6146W GE tube was not recommended for the Kenwood transceivers. So this might be why I am have the problem.

73
Art
WB4MNK

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 2:28 PM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

Art, the L2 resistance reading on my TS-830 is 3.8 ohms, so your 4.2 ohms is probably ok (or else I also have a problem!)

Bill, K5GCW
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 06, 2006 12:21 PM
Subject: [TS-520_820_530_830] R2-R5 Failure

Hi Walt,
Thank you for helping me. OK we checked the new 6146W for a short between pins 3 and 5 and there is NO short on either tube. Now this check was done via an ohm meter because I do not have access to a tube checker. We checked R7-R8 and they checked 100.2 and 100.0 OHMS. PS 1 and ps 2 look to be OK. Now L2 on the board checks 4.2 OHMS NOT ZERO OHMS it does not look like it has been fried. L1 on the board checks 1.8 OHMS. We tried the old tubes and they seem to work OK. These are 6146B's which lose power during transmit. Set idle current to 60ma with no problem. With the B tubes things seem to be like they were.

Any other suggestions?

73
Art
WB4MNK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.14/222 - Release Date: 1/5/2006

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6339. Re: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 06:35:56 UTC
From: Arthur Petteway
Topic: 6299 Message: 6339

Hi Ron, Thanks for the information and interest. Well the reason I felt the 6146B tubes were bad is because I could key the rig and it would show over 100 watts and then the power would drop to around 85 watts and seem to stabilize there. I figured it was a final problem or the driver was bad. I put some old 6146W tubes which were different brands but they held the power out around 100 watts and did not lose power. So I figured I would order some new 6146W's because they seemed to work ok with just a little less power output. So we received the new GE/JAN 6146W tubes and a new 12BY7A driver and we installed them and that is when my problem started with the R2-R5 resistors. Those resistors failed when we turn on the heater switch. No load rig was in receive.So figure the new finals had a short but cannot find one with the ohm meter and that is how things stand at this point.Maybe next week we will be able to dig into the rig a little farther.

73
Ron
WB4MNK
----- Original Message -----
From: Hauser, Ron M.
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 07, 2006 8:46 PM
Subject: RE: [TS-520_820_530_830] ts-830S

Hi Art. I got a TS-830S recently and found that it had pretty soft
power. After good advice from this group, I checked r2-r5 and found
that they were all out of spec. Nothing was out and out fried, but they
were way out of tolerance. When pulling them out of the board, most of
them crumbled. I interpret this to be long term degradation due to heat
off of the tubes.

Anyway, in my case after replacing the resistors, I was back at a good
solid 100W with the same old same old tubes. I bring this up in the
context of Walt's question about how you decided your tubes were soft to
begin with... Might your "old" tubes have been solid and your r2-r5 have
been degraded? Perhaps also if your r2-r5 were degraded, then the hot
might have just pushed them over the edge. It will be very interesting
to see the results of your tests, please post them.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Friday, January 06, 2006 6:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] ts-830S

Probably, one or more of your new tubes has a screen to control grid short.
This
placed high screen voltage on the control grid that should be biased near
cut off with negative voltage. When the filaments warmed, the tube started
conducting violently causing excessive current through the cathode resistors
R2, R3, R4, and R5.

These resistors serve as shunt resistors for the IP meter and also act as
fuses
in the event of a short like the one that happened to you.

You should replace R2, R3, R4, and R5.
Do not use resistors except 1/2 watt, the same wattage as the originals.
Do
NOT use larger resistors because they will not blow if needed and do major
damage if this were to happen again.

Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2 coil should
check 0 ohms. If it checks open, it is fried. Also look closely for cracks
or any indication that it is badly fried. If it looks like it has gotten
hot, not just dirt on it, it could be shorted.

Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is checked
the same way as L2. Observe PS 1 and PS 2. These are two parasitic chokes
wound around a resistor. It is not likely that these were damaged and the
wire or the resistor inside will look like it has been overheated if they
are damaged. They may be covered. If so and the cover does not look burnt,
don't
worry about them for now.

After doing the above put your ORIGINAL tubes in and try again. After the
filaments warm up, key up in SSB with mike gain fully down and see if you
can set your bias control for 60 ma IP.

Let us know what happens. Even if the rig is now back to it's original
condition, get back with us.

I am interested as to why you concluded that the tubes were bad and what type and make the originals were. 6146 and S-2001 types do not go bad as often as the 6JS6 tubes in Yaesus do unless the rig has been hot rodded. I am not as familiar with the TS 830 as I am the 820, but screen supply problems can cause low output. I can help you check that.

Remember that the SG switch on the back has to be on. It often gets bumped while servicing.

To check the new tubes for shorts, check ohms between pin 3 and 5 with the tube removed. If it shows anything but an open, it is shorted. If it shows a very high resistance, like 100k ohms or more, check to be sure that your fingers are not touching the probes. Likely you will be measuring yourself.

With the bottom of the tube facing you, you will see a pin with a key along the side. This lines up with the key hole in the socket to establish tube rotation.

Still with the bottom facing you count clockwise from the key. The first pin clockwise from the key is pin 1 the last pin clockwise is pin 8.

Pin 3 is the screen grid and pin 5 is the control grid. These are the pins where the short will be.

If the tubes show a short, they are shorted. If they show a open, they may still be shorted and should be checked in a Tube Tester for shorts before trying them again. Do not be too quick to have a public hanging of the person who sold you these tubes. These grids can often short during shipment and handling. Some makes and types tend to do this more than others.

BTW, does everybody understand how a tube works basically?

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "wb4mnk" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 05, 2006 4:17 PM

Subject: [TS-520_820_530_830] ts-830s

> We have a TS-830S and the output would fall off to around 80 watts
> on 20 meters from around 105 watts so we order some new GE/JAN
> 6146W's and a new 12by7a driver. I installed the tubes today and
> turn the rig on and let warm up some and then turned the heater
> switch on and was going to let the tubes warm up for maybe 20
> minutes before I would try and load the rig up on 20 meters. Band
> switch was set for 20 meters and the mode switch was in usb. Well
> maybe into warming up for around one minute the rig acted like
> something shorted out twice and we turn it off. WE replaced the new
> 6146W tubes with the old 6146W tubes and now when we checked the
> idle current it goes full scale. I pulled the final unit and
> checked r2-r5 which are 20ohm resistors. They all check installed in
> the board at 42.9ohms. Could someone please direct me into the
> correct area to check and help me get this rig back on the air.
> Thanks
>
> 73
> Art
> WB4MNK
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

Yahoo! Groups Links

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

6340. VFO-820, SP-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 13:01:38 UTC
From: Osamu Hazawa
Topic: 6340 Message: 6340

Hello All,

I'm looking for a VFO-820 and /or SP-820 mate with my
TS-820S.

Please contact me off list if you have one that excesses to your needs.

Thank you,

Osamu Hazawa
http://www4.ocn.ne.jp/~pomerol/MyPage/menu0.html

[Non-text portions of this message have been removed]

6341. Re: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 13:20:19 UTC
From: Walt Breining
Topic: 6299 Message: 6341

Art:
Do you still have the mis matched pair? Have you tried them again? Since it held steady with them, it is more proof that the original finals were bad. Look at the mismatched pair carefully. Does the internal construction seem similar? If so they may be identical even though they have different brand names. I would put them back in and if they work I would check the neutralization and put it back together and go with it. Matched tubes is not super critical with parallel tubes. Very important with push pull linear RF and audio circuits.
Vy 73, Walt N9WB

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 08, 2006 1:35 AM
Subject: Re: [TS-520_820_530_830] ts-830S

> Hi Ron, Thanks for the information and interest. Well the reason I felt the 6146B tubes were bad is because I could key the rig and it would show over 100 watts and then the power would drop to around 85 watts and seem to stabilize there. I figured it was a final problem or the driver was bad. I put some old 6146W tubes which were different brands but they held the power out around 100 watts and did not lose power. So I figured I would order some new 6146W's because they seemed to work ok with just a little less power output. So we received the new GE/JAN 6146W tubes and a new 12BY7A driver and we installed them and that is when my problem started with the R2-R5 resistors. Those resistors failed when we turn on the heater switch. No load rig was in receive.So figure the new finals had a short but cannot find one with the ohm meter and that is how things stand at this point.Maybe next week we will be able to dig into the rig a little farther.
>
> 73
> Ron
> WB4MNK
> ----- Original Message -----
> From: Hauser, Ron M.
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 8:46 PM
> Subject: RE: [TS-520_820_530_830] ts-830S
>
>
> Hi Art. I got a TS-830S recently and found that it had pretty soft
> power. After good advice from this group, I checked r2-r5 and found
> that they were all out of spec. Nothing was out and out fried, but they
> were way out of tolerance. When pulling them out of the board, most of

> them crumbled. I interpret this to be long term degradation due to heat
> off of the tubes.
>
> Anyway, in my case after replacing the resistors, I was back at a good
> solid 100W with the same old same old tubes. I bring this up in the
> context of Walt's question about how you decided your tubes were soft to
> begin with... Might your "old" tubes have been solid and your r2-r5 have
> been degraded? Perhaps also if your r2-r5 were degraded, then the hot
> might have just pushed them over the edge. It will be very interesting
> to see the results of your tests, please post them.
>
> 73
> --Ron
> KC0TLN
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Friday, January 06, 2006 6:26 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] ts-830S
>
> Probably, one or more of your new tubes has a screen to control grid
> short.
> This
> placed high screen voltage on the control grid that should be biased
> near
> cut off with negative voltage. When the filaments warmed, the tube
> started
> conducting violently causing excessive current through the cathode
> resistors
> R2, R3, R4, and R5.
>
> These resistors serve as shunt resistors for the IP meter and also act
> as
> fuses
> in the event of a short like the one that happened to you.
>
> You should replace R2, R3, R4, and R5.
> Do not use resistors except 1/2 watt, the same wattage as the originals.
> Do
> NOT use larger resistors because they will not blow if needed and do
> major
> damage if this were to happen again.
>
> Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2 coil
> should
> check 0 ohms. If it checks open, it is fried. Also look closely for
> cracks

> or any indication that it is badly fried. If it looks like it has gotten
> hot, not just dirt on it, it could be shorted.
>
>
> Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is
> checked
> the same way as L2. Observe PS 1 and PS 2. These are two parasitic
> chokes
> wound around a resistor. It is not likely that these were damaged and
> the
> wire or the resistor inside will look like it has been overheated if
> they
> are damaged. They may be covered. If so and the cover does not look
> burnt,
> don't
> worry about them for now.
>
> After doing the above put your ORIGINAL tubes in and try again. After
> the
> filaments warm up, key up in SSB with mike gain fully down and see if
> you
> can set your bias control for 60 ma IP.
>
> Let us know what happens. Even if the rig is now back to it's original
> condition, get back with us.
>
> I am interested as to why you concluded that the tubes were bad and what
> type and make the originals were. 6146 and S-2001 types do not go bad
> as
> often as the 6JS6 tubes in Yaesus do unless the rig has been hot rodded.
> I
> am not as familiar with the TS 830 as I am the 820, but screen supply
> problems can cause low output. I can help you check that.
>
> Remember that the SG switch on the back has to be on. It often gets
> bumped
> while servicing.
>
> To check the new tubes for shorts, check ohms between pin 3 and 5 with
> the
> tube removed. If it shows anything but an open, it is shorted. If it
> shows
> a very high resistance, like 100k ohms or more, check to be sure that
> your
> fingers are not touching the probes. Likely you will be measuring
> yourself.
>
> With the bottom of the tube facing you, you will see a pin with a key
> along
> the side. This lines up with the key hole in the socket to establish

> tube
> rotation.
>
> Still with the bottom facing you count clockwise from the key. The first
> pin
> clockwise from the key is pin 1 the last pin clockwise is pin 8.
>
> Pin 3 is the screen grid and pin 5 is the control grid. These are the
> pins
> where the short will be.
>
> If the tubes show a short, they are shorted. If they show a open, they
> may
> still be shorted and should be checked in a Tube Tester for shorts
> before
> trying them again. Do not be too quick to have a public hanging of the
> person who sold you these tubes. These grids can often short during
> shipment and handling. Some makes and types tend to do this more than
> others.
>
> BTW, does everybody understand how a tube works basically?
>
>
> Vy 73, Walt N9WB
> Good audio is an Amateur Radio tradition, not a crime.
>
>
>
> ----- Original Message -----
> From: "wb4mnk" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, January 05, 2006 4:17 PM
> Subject: [TS-520_820_530_830] ts-830s
>
>
> > We have a TS-830S and the output would fall off to around 80 watts
> > on 20 meters from around 105 watts so we order some new GE/JAN
> > 6146W's and a new 12by7a driver. I installed the tubes today and
> > turn the rig on and let warm up some and then turned the heater
> > switch on and was going to let the tubes warm up for maybe 20
> > minutes before I would try and load the rig up on 20 meters. Band
> > switch was set for 20 meters and the mode switch was in usb. Well
> > maybe into warming up for around one minute the rig acted like
> > something shorted out twice and we turn it off. WE replaced the new
> > 6146W tubes with the old 6146W tubes and now when we checked the
> > idle current it goes full scale. I pulled the final unit and
> > checked r2-r5 which are 20ohm resistors. They all check installed in
> > the board at 42.9ohms. Could someone please direct me into the
> > correct area to check and help me get this rig back on the air.
> > Thanks

> >
> > 73
> > Art
> > WB4MNK
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> --

>
>

>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
1/6/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6342. Re: [TS-520_820_530_830] MC-50(hi-Z setting) into a TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 15:43:37 UTC
From: Dave and Loraine
Topic: 6342 Message: 6342

Happy new year to all.

Mic gain - I talk 4" from the mic but need the gain full-on to get correct ALC. (good audio
reports)

Compressor - The compressor gain is very low when CCW. Half-on it sounds bad and full-on, garbage.

Any suggestions welcome.
Cheers
Dave F4EYK

6343. Re: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 16:07:23 UTC
From: Arthur Petteway
Topic: 6299 Message: 6343

Hi Walt and the group, Yes the mixed brand 6146W tubes are back in the rig and are holding power around 95 watts. I am using the rig to make some rtty contacts in the round up today. I still think I will try and find some good 6146B tubes to see how they work in rig. My old 6146B's have to be weak.

73
Art
WB4MNK
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 08, 2006 8:20 AM
Subject: Re: [TS-520_820_530_830] ts-830S

Art:
Do you still have the mis matched pair? Have you tried them again? Since it held steady with them, it is more proof that the original finals were bad. Look at the mismatched pair carefully. Does the internal construction seem similar? If so they may be identical even though they have different brand names. I would put them back in and if they work I would check the neutralization and put it back together and go with it. Matched tubes is not super critical with parallel tubes. Very important with push pull linear RF and audio circuits.
Vy 73, Walt N9WB

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 08, 2006 1:35 AM
Subject: Re: [TS-520_820_530_830] ts-830S

> Hi Ron, Thanks for the information and interest. Well the reason I felt the 6146B tubes were bad is because I could key the rig and it would show over 100 watts and then the power would drop to around 85 watts and seem to stabilize there. I figured it was a final problem or the driver was bad. I put some old 6146W tubes which were different brands but they held the power out around 100 watts and did not lose power. So I figured I would order some new 6146W's because they seemed to work ok with just a little less power output. So we received the new GE/JAN 6146W tubes and a new 12BY7A driver and we installed them and that is when my problem started with the R2-R5 resistors. Those resistors failed when we turn on the heater switch. No load rig was in receive.So figure the new finals had a short but cannot find one with the ohm meter and that is how things stand at this point.Maybe next week we will be able to dig into the rig a little farther.
>
> 73

> Ron
> WB4MNK
> ----- Original Message -----
> From: Hauser, Ron M.
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 07, 2006 8:46 PM
> Subject: RE: [TS-520_820_530_830] ts-830S
>
>
> Hi Art. I got a TS-830S recently and found that it had pretty soft
> power. After good advice from this group, I checked r2-r5 and found
> that they were all out of spec. Nothing was out and out fried, but they
> were way out of tolerance. When pulling them out of the board, most of
> them crumbled. I interpret this to be long term degradation due to heat
> off of the tubes.
>
> Anyway, in my case after replacing the resistors, I was back at a good
> solid 100W with the same old same old tubes. I bring this up in the
> context of Walt's question about how you decided your tubes were soft to
> begin with... Might your "old" tubes have been solid and your r2-r5 have
> been degraded? Perhaps also if your r2-r5 were degraded, then the hot
> might have just pushed them over the edge. It will be very interesting
> to see the results of your tests, please post them.
>
> 73
> --Ron
> KC0TLN
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Friday, January 06, 2006 6:26 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] ts-830S
>
> Probably, one or more of your new tubes has a screen to control grid
> short.
> This
> placed high screen voltage on the control grid that should be biased
> near
> cut off with negative voltage. When the filaments warmed, the tube
> started
> conducting violently causing excessive current through the cathode
> resistors
> R2, R3, R4, and R5.
>
> These resistors serve as shunt resistors for the IP meter and also act
> as
> fuses

> in the event of a short like the one that happened to you.
>
> You should replace R2, R3, R4, and R5.
> Do not use resistors except 1/2 watt, the same wattage as the originals.
> Do
> NOT use larger resistors because they will not blow if needed and do
> major
> damage if this were to happen again.
>
> Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2 coil
> should
> check 0 ohms. If it checks open, it is fried. Also look closely for
> cracks
> or any indication that it is badly fried. If it looks like it has gotten
> hot, not just dirt on it, it could be shorted.
>
>
> Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is
> checked
> the same way as L2. Observe PS 1 and PS 2. These are two parasitic
> chokes
> wound around a resistor. It is not likely that these were damaged and
> the
> wire or the resistor inside will look like it has been overheated if
> they
> are damaged. They may be covered. If so and the cover does not look
> burnt,
> don't
> worry about them for now.
>
> After doing the above put your ORIGINAL tubes in and try again. After
> the
> filaments warm up, key up in SSB with mike gain fully down and see if
> you
> can set your bias control for 60 ma IP.
>
> Let us know what happens. Even if the rig is now back to it's original
> condition, get back with us.
>
> I am interested as to why you concluded that the tubes were bad and what
> type and make the originals were. 6146 and S-2001 types do not go bad
> as
> often as the 6JS6 tubes in Yaesus do unless the rig has been hot rodded.
> I
> am not as familiar with the TS 830 as I am the 820, but screen supply
> problems can cause low output. I can help you check that.
>
> Remember that the SG switch on the back has to be on. It often gets
> bumped
> while servicing.

>
> To check the new tubes for shorts, check ohms between pin 3 and 5 with
> the
> tube removed. If it shows anything but an open, it is shorted. If it
> shows
> a very high resistance, like 100k ohms or more, check to be sure that
> your
> fingers are not touching the probes. Likely you will be measuring
> yourself.
>
> With the bottom of the tube facing you, you will see a pin with a key
> along
> the side. This lines up with the key hole in the socket to establish
> tube
> rotation.
>
> Still with the bottom facing you count clockwise from the key. The first
> pin
> clockwise from the key is pin 1 the last pin clockwise is pin 8.
>
> Pin 3 is the screen grid and pin 5 is the control grid. These are the
> pins
> where the short will be.
>
> If the tubes show a short, they are shorted. If they show a open, they
> may
> still be shorted and should be checked in a Tube Tester for shorts
> before
> trying them again. Do not be too quick to have a public hanging of the
> person who sold you these tubes. These grids can often short during
> shipment and handling. Some makes and types tend to do this more than
> others.
>
> BTW, does everybody understand how a tube works basically?
>
>
> Vy 73, Walt N9WB
> Good audio is an Amateur Radio tradition, not a crime.
>
>
>
> ----- Original Message -----
> From: "wb4mnk" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, January 05, 2006 4:17 PM
> Subject: [TS-520_820_530_830] ts-830s
>
>
> > We have a TS-830S and the output would fall off to around 80 watts
> > on 20 meters from around 105 watts so we order some new GE/JAN

> > 6146W's and a new 12by7a driver. I installed the tubes today and
> > turn the rig on and let warm up some and then turned the heater
> > switch on and was going to let the tubes warm up for maybe 20
> > minutes before I would try and load the rig up on 20 meters. Band
> > switch was set for 20 meters and the mode switch was in usb. Well
> > maybe into warming up for around one minute the rig acted like
> > something shorted out twice and we turn it off. WE replaced the new
> > 6146W tubes with the old 6146W tubes and now when we checked the
> > idle current it goes full scale. I pulled the final unit and
> > checked r2-r5 which are 20ohm resistors. They all check installed in
> > the board at 42.9ohms. Could someone please direct me into the
> > correct area to check and help me get this rig back on the air.
> > Thanks
> >
> > 73
> > Art
> > WB4MNK
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
> --

> YAHOO! GROUPS LINKS
>

> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
1/6/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

6344. Re: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 16:49:44 UTC
From: Walt Breining
Topic: 6299 Message: 6344

I was wondering how the tubes got weak. RTTY explains it. RTTY and slow scan are very hard on the rig as it is near 100% duty cycle.

vy 73, Walt N9WB

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 08, 2006 11:07 AM
Subject: Re: [TS-520_820_530_830] ts-830S

> Hi Walt and the group, Yes the mixed brand 6146W tubes are back in the rig and are holding power around 95 watts. I am using the rig to make some rtty contacts in the round up today. I still think I will try and find some good 6146B tubes to see how they work in rig. My old 6146B's have to be weak.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 08, 2006 8:20 AM
> Subject: Re: [TS-520_820_530_830] ts-830S
>
>
> Art:
> Do you still have the mis matched pair? Have you tried them again? Since it
> held steady with them, it is more proof that the original finals were bad.
> Look at the mismatched pair carefully. Does the internal construction seem
> similar? If so they may be identical even though they have different brand
> names. I would put them back in and if they work I would check the
> neutralization and put it back together and go with it. Matched tubes is not
> super critical with parallel tubes. Very important with push pull linear RF
> and audio circuits.
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Arthur Petteway" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>

> Sent: Sunday, January 08, 2006 1:35 AM
> Subject: Re: [TS-520_820_530_830] ts-830S
>
>
> > Hi Ron, Thanks for the information and interest. Well the reason I
felt
> the 6146B tubes were bad is because I could key the rig and it would
show
> over 100 watts and then the power would drop to around 85 watts and seem
to
> stabilize there. I figured it was a final problem or the driver was bad.
I
> put some old 6146W tubes which were different brands but they held the
power
> out around 100 watts and did not lose power. So I figured I would order
some
> new 6146W's because they seemed to work ok with just a little less power
> output. So we received the new GE/JAN 6146W tubes and a new 12BY7A
driver
> and we installed them and that is when my problem started with the R2-R5
> resistors. Those resistors failed when we turn on the heater switch. No
load
> rig was in receive.So figure the new finals had a short but cannot find
one
> with the ohm meter and that is how things stand at this point.Maybe next
> week we will be able to dig into the rig a little farther.
> >
> > 73
> > Ron
> > WB4MNK
> > ----- Original Message -----
> > From: Hauser, Ron M.
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, January 07, 2006 8:46 PM
> > Subject: RE: [TS-520_820_530_830] ts-830S
> > >
> > >
> > > Hi Art. I got a TS-830S recently and found that it had pretty soft
> > > power. After good advice from this group, I checked r2-r5 and found
> > > that they were all out of spec. Nothing was out and out fried, but
they
> > > were way out of tolerance. When pulling them out of the board, most
of
> > > them crumbled. I interpret this to be long term degradation due to
heat
> > > off of the tubes.
> > >
> > > Anyway, in my case after replacing the resistors, I was back at a
good
> > > solid 100W with the same old same old tubes. I bring this up in the

> > context of Walt's question about how you decided your tubes were
soft to
> > begin with... Might your "old" tubes have been solid and your r2-r5
have
> > been degraded? Perhaps also if your r2-r5 were degraded, then the
hot
> > might have just pushed them over the edge. It will be very
interesting
> > to see the results of your tests, please post them.
> >
> > 73
> > --Ron
> > KC0TLN
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> > Sent: Friday, January 06, 2006 6:26 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] ts-830S
> >
> > Probably, one or more of your new tubes has a screen to control grid
> > short.
> > This
> > placed high screen voltage on the control grid that should be biased
> > near
> > cut off with negative voltage. When the filaments warmed, the tube
> > started
> > conducting violently causing excessive current through the cathode
> > resistors
> > R2, R3, R4, and R5.
> >
> > These resistors serve as shunt resistors for the IP meter and also
act
> > as
> > fuses
> > in the event of a short like the one that happened to you.
> >
> > You should replace R2, R3, R4, and R5.
> > Do not use resistors except 1/2 watt, the same wattage as the
originals.
> > Do
> > NOT use larger resistors because they will not blow if needed and do
> > major
> > damage if this were to happen again.
> >
> > Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2
coil

> > should
> > check 0 ohms. If it checks open, it is fried. Also look closely
for
> > cracks
> > or any indication that it is badly fried. If it looks like it has
gotten
> > hot, not just dirt on it, it could be shorted.
> >
> >
> > Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is
> > checked
> > the same way as L2. Observe PS 1 and PS 2. These are two parasitic
> > chokes
> > wound around a resistor. It is not likely that these were damaged
and
> > the
> > wire or the resistor inside will look like it has been overheated if
> > they
> > are damaged. They may be covered. If so and the cover does not
look
> > burnt,
> > don't
> > worry about them for now.
> >
> > After doing the above put your ORIGINAL tubes in and try again.
After
> > the
> > filaments warm up, key up in SSB with mike gain fully down and see
if
> > you
> > can set your bias control for 60 ma IP.
> >
> > Let us know what happens. Even if the rig is now back to it's
original
> > condition, get back with us.
> >
> > I am interested as to why you concluded that the tubes were bad and
what
> > type and make the originals were. 6146 and S-2001 types do not go
bad
> > as
> > often as the 6JS6 tubes in Yaesus do unless the rig has been hot
rodded.
> > I
> > am not as familiar with the TS 830 as I am the 820, but screen
supply
> > problems can cause low output. I can help you check that.
> >
> > Remember that the SG switch on the back has to be on. It often gets
> > bumped

> > while servicing.
> >
> > To check the new tubes for shorts, check ohms between pin 3 and 5
with
> > the
> > tube removed. If it shows anything but an open, it is shorted. If
it
> > shows
> > a very high resistance, like 100k ohms or more, check to be sure
that
> > your
> > fingers are not touching the probes. Likely you will be measuring
> > yourself.
> >
> > With the bottom of the tube facing you, you will see a pin with a
key
> > along
> > the side. This lines up with the key hole in the socket to establish
> > tube
> > rotation.
> >
> > Still with the bottom facing you count clockwise from the key. The
first
> > pin
> > clockwise from the key is pin 1 the last pin clockwise is pin 8.
> >
> > Pin 3 is the screen grid and pin 5 is the control grid. These are
the
> > pins
> > where the short will be.
> >
> > If the tubes show a short, they are shorted. If they show a open,
they
> > may
> > still be shorted and should be checked in a Tube Tester for shorts
> > before
> > trying them again. Do not be too quick to have a public hanging of
the
> > person who sold you these tubes. These grids can often short during
> > shipment and handling. Some makes and types tend to do this more
than
> > others.
> >
> > BTW, does everybody understand how a tube works basically?
> >
> >
> > Vy 73, Walt N9WB
> > Good audio is an Amateur Radio tradition, not a crime.
> >
> >

> >
> > ----- Original Message -----
> > From: "wb4mnk" <wb4mnk@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Thursday, January 05, 2006 4:17 PM
> > Subject: [TS-520_820_530_830] ts-830s
> >
> >
> > > We have a TS-830S and the output would fall off to around 80 watts
> > > on 20 meters from around 105 watts so we order some new GE/JAN
> > > 6146W's and a new 12by7a driver. I installed the tubes today and
> > > turn the rig on and let warm up some and then turned the heater
> > > switch on and was going to let the tubes warm up for maybe 20
> > > minutes before I would try and load the rig up on 20 meters. Band
> > > switch was set for 20 meters and the mode switch was in usb. Well
> > > maybe into warming up for around one minute the rig acted like
> > > something shorted out twice and we turn it off. WE replaced the
new
> > > 6146W tubes with the old 6146W tubes and now when we checked the
> > > idle current it goes full scale. I pulled the final unit and
> > > checked r2-r5 which are 20ohm resistors. They all check installed
in
> > > the board at 42.9ohms. Could someone please direct me into the
> > > correct area to check and help me get this rig back on the air.
> > > Thanks
> > >
> > > 73
> > > Art
> > > WB4MNK
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> >
> >

> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

> --
> ----
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
>

> --
> ----
> >
> >
> >
> >
>

> --
> ----
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
> 1/6/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >

> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
1/6/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>

6345. Re: [TS-520_820_530_830] MC-50(hi-Z setting) into a TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 16:58:38 UTC
From: Walt Breining
Topic: 6342 Message: 6345

The MC-50 needs to be worked close. You are correct to use the High Z setting. I never cared for the processor in the 820. However I find myself using during bad conditions. I run the compressor gain at about 10 o'clock. I used to use a home made compressor and EQ. I am presently building another one of a different design.

One symptom, if you get little or no ALC on 10 meters and more but still weak on 40 meters, the 12BY7 could be weak. Also not all 12BY7s work well. Toshiba and NEC work best. I used to use Sylvania but I would take a couple of boxes of them and find the best one. I used to be in the service business. The ones I did not use, worked fine in everything except Kenwoods and Yaesus.

I assume you are peaking the drive control for max with meter in ALC.

I think your problem is that you are not working the mike close.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "Dave and Loraine" <dave.crooks@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 08, 2006 10:43 AM
Subject: Re: [TS-520_820_530_830] MC-50(hi-Z setting) into a TS-820S

> Happy new year to all.
>
> Mic gain - I talk 4" from the mic but need the gain full-on to get correct ALC. (good audio
> reports)
>
> Compressor - The compressor gain is very low when CCW. Half-on it sounds bad and full-on, garbage.
>
> Any suggestions welcome.
> Cheers
> Dave F4EYK
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>

6346. Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-08 22:45:48 UTC
From: Kevin der Kinderen
Topic: 6346 Message: 6346

I have held off doing any modifications to my 830 (I LOVE THIS RIG!) but I think it's time to do the filter mod. I'd like to be able to use the narrow filters for PSK.

I've found the documentation for the mod. I just wanted to know if anyone here has performed this mod and found any problems or have any hints for me. Has there been any problems using it with PSK in USB?

Speaking of PSK... the 830 has been doing a great job for me. The best IMD I can get (as read on my KK7UQ IMD Meter) is -28. That's good, but I'd prefer to be down around -30 or better. I've tweaked about everything but seem to have topped out at -28. If anyone with an 830 is considering the digital modes, the rig works great. With the external VFO, I've never had a report of drifting. Never tried the internal VFO for that though.

73,
Kevin - K4VD

6347. Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 01:15:46 UTC
From: Arthur Petteway
Topic: 6346 Message: 6347

Hi Kevin, I have the TS-830S and did the filter mod a few years ago and it works FB on usb or lsb. I used the DH switch to change the filter off or on because it is located in an easy to use location. As far as drift my 830 after warm up is plenty stable to work psk. We work psk all the time and most of the other modes that work with a sound card. The cw filter that I have is the 500hz and using it plus the if shift and vbt you can really bring the filter edges to where you need it on most modes. Have fun and good luck with the mod.

73
Art
WB4MNK
----- Original Message -----
From: Kevin der Kinderen
To: TS-520_820_530_830
Sent: Sunday, January 08, 2006 5:45 PM
Subject: [TS-520_820_530_830] Ready For First TS-830 Mod

I have held off doing any modifications to my 830 (I LOVE THIS RIG!) but I think it's time to do the filter mod. I'd like to be able to use the narrow filters for PSK.

I've found the documentation for the mod. I just wanted to know if anyone here has performed this mod and found any problems or have any hints for me. Has there been any problems using it with PSK in USB?

Speaking of PSK... the 830 has been doing a great job for me. The best IMD I can get (as read on my KK7UQ IMD Meter) is -28. That's good, but I'd prefer to be down around -30 or better. I've tweaked about everything but seem to have topped out at -28. If anyone with an 830 is considering the digital modes, the rig works great. With the external VFO, I've never had a report of drifting. Never tried the internal VFO for that though.

73,
Kevin - K4VD

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

6348. Re: [TS-520_820_530_830] ts-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 01:23:16 UTC
From: Arthur Petteway
Topic: 6299 Message: 6348

Walt, Most of my contacts are on PSK, RTTY and some of the other sound card modes. I add in a little of CW and SSB. We run the rig in the digital modes below 50% of full output. TS-830S seems to work FB at that power level.

73 Art
WB4MNK
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 08, 2006 11:49 AM
Subject: Re: [TS-520_820_530_830] ts-830S

I was wondering how the tubes got weak. RTTY explains it. RTTY and slow scan are very hard on the rig as it is near 100% duty cycle.

vy 73, Walt N9WB

----- Original Message -----
From: "Arthur Petteway" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 08, 2006 11:07 AM
Subject: Re: [TS-520_820_530_830] ts-830S

> Hi Walt and the group, Yes the mixed brand 6146W tubes are back in the rig and are holding power around 95 watts. I am using the rig to make some rtty contacts in the round up today. I still think I will try and find some good 6146B tubes to see how they work in rig. My old 6146B's have to be weak.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 08, 2006 8:20 AM
> Subject: Re: [TS-520_820_530_830] ts-830S
>
>
> Art:
> Do you still have the mis matched pair? Have you tried them again? Since it
> held steady with them, it is more proof that the original finals were bad.
> Look at the mismatched pair carefully. Does the internal construction seem
> similar? If so they may be identical even though they have different

brand
> names. I would put them back in and if they work I would check the
> neutralization and put it back together and go with it. Matched tubes is
not
> super critical with parallel tubes. Very important with push pull
linear RF
> and audio circuits.
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Arthur Petteway" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, January 08, 2006 1:35 AM
> Subject: Re: [TS-520_820_530_830] ts-830S
>
>
> > Hi Ron, Thanks for the information and interest. Well the reason I
felt
> the 6146B tubes were bad is because I could key the rig and it would
show
> over 100 watts and then the power would drop to around 85 watts and seem
to
> stabilize there. I figured it was a final problem or the driver was bad.
I
> put some old 6146W tubes which were different brands but they held the
power
> out around 100 watts and did not lose power. So I figured I would order
some
> new 6146W's because they seemed to work ok with just a little less power
> output. So we received the new GE/JAN 6146W tubes and a new 12BY7A
driver
> and we installed them and that is when my problem started with the R2-R5
> resistors. Those resistors failed when we turn on the heater switch. No
load
> rig was in receive.So figure the new finals had a short but cannot find
one
> with the ohm meter and that is how things stand at this point.Maybe next
> week we will be able to dig into the rig a little farther.
> >
> > 73
> > Ron
> > WB4MNK
> > ----- Original Message -----
> > From: Hauser, Ron M.
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, January 07, 2006 8:46 PM
> > Subject: RE: [TS-520_820_530_830] ts-830S
> >
> >
> > Hi Art. I got a TS-830S recently and found that it had pretty soft

> > power. After good advice from this group, I checked r2-r5 and found
> > that they were all out of spec. Nothing was out and out fried, but
they
> > were way out of tolerance. When pulling them out of the board, most
of
> > them crumbled. I interpret this to be long term degradation due to
heat
> > off of the tubes.
> >
> > Anyway, in my case after replacing the resistors, I was back at a
good
> > solid 100W with the same old same old tubes. I bring this up in the
> > context of Walt's question about how you decided your tubes were
soft to
> > begin with... Might your "old" tubes have been solid and your r2-r5
have
> > been degraded? Perhaps also if your r2-r5 were degraded, then the
hot
> > might have just pushed them over the edge. It will be very
interesting
> > to see the results of your tests, please post them.
> >
> > 73
> > --Ron
> > KC0TLN
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> > Sent: Friday, January 06, 2006 6:26 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] ts-830S
> >
> > Probably, one or more of your new tubes has a screen to control grid
> > short.
> > This
> > placed high screen voltage on the control grid that should be biased
> > near
> > cut off with negative voltage. When the filaments warmed, the tube
> > started
> > conducting violently causing excessive current through the cathode
> > resistors
> > R2, R3, R4, and R5.
> >
> > These resistors serve as shunt resistors for the IP meter and also
act
> > as
> > fuses

> > in the event of a short like the one that happened to you.
> >
> > You should replace R2, R3, R4, and R5.
> > Do not use resistors except 1/2 watt, the same wattage as the
originals.
> > Do
> > NOT use larger resistors because they will not blow if needed and do
> > major
> > damage if this were to happen again.
> >
> > Also check R7, R8, and L2. R7 and R8 are 100 ohms 1/2 watt. L2
coil
> > should
> > check 0 ohms. If it checks open, it is fried. Also look closely
for
> > cracks
> > or any indication that it is badly fried. If it looks like it has
gotten
> > hot, not just dirt on it, it could be shorted.
> >
> >
> > Also check R1 100 ohms 1/2 watt and L1 choke coil. This chokes is
> > checked
> > the same way as L2. Observe PS 1 and PS 2. These are two parasitic
> > chokes
> > wound around a resistor. It is not likely that these were damaged
and
> > the
> > wire or the resistor inside will look like it has been overheated if
> > they
> > are damaged. They may be covered. If so and the cover does not
look
> > burnt,
> > don't
> > worry about them for now.
> >
> > After doing the above put your ORIGINAL tubes in and try again.
After
> > the
> > filaments warm up, key up in SSB with mike gain fully down and see
if
> > you
> > can set your bias control for 60 ma IP.
> >
> > Let us know what happens. Even if the rig is now back to it's
original
> > condition, get back with us.
> >
> > I am interested as to why you concluded that the tubes were bad and
what

> > type and make the originals were. 6146 and S-2001 types do not go
bad
> > as
> > often as the 6JS6 tubes in Yaesus do unless the rig has been hot
rodded.
> > I
> > am not as familiar with the TS 830 as I am the 820, but screen
supply
> > problems can cause low output. I can help you check that.
> >
> > Remember that the SG switch on the back has to be on. It often gets
> > bumped
> > while servicing.
> >
> > To check the new tubes for shorts, check ohms between pin 3 and 5
with
> > the
> > tube removed. If it shows anything but an open, it is shorted. If
it
> > shows
> > a very high resistance, like 100k ohms or more, check to be sure
that
> > your
> > fingers are not touching the probes. Likely you will be measuring
> > yourself.
> >
> > With the bottom of the tube facing you, you will see a pin with a
key
> > along
> > the side. This lines up with the key hole in the socket to establish
> > tube
> > rotation.
> >
> > Still with the bottom facing you count clockwise from the key. The
first
> > pin
> > clockwise from the key is pin 1 the last pin clockwise is pin 8.
> >
> > Pin 3 is the screen grid and pin 5 is the control grid. These are
the
> > pins
> > where the short will be.
> >
> > If the tubes show a short, they are shorted. If they show a open,
they
> > may
> > still be shorted and should be checked in a Tube Tester for shorts
> > before
> > trying them again. Do not be too quick to have a public hanging of
the

> > person who sold you these tubes. These grids can often short during
> > shipment and handling. Some makes and types tend to do this more
than
> > others.
> >
> > BTW, does everybody understand how a tube works basically?
> >
> >
> > Vy 73, Walt N9WB
> > Good audio is an Amateur Radio tradition, not a crime.
> >
> >
> >
> > ----- Original Message -----
> > From: "wb4mnk" <wb4mnk@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Thursday, January 05, 2006 4:17 PM
> > Subject: [TS-520_820_530_830] ts-830s
> >
> >
> > > We have a TS-830S and the output would fall off to around 80 watts
> > > on 20 meters from around 105 watts so we order some new GE/JAN
> > > 6146W's and a new 12by7a driver. I installed the tubes today and
> > > turn the rig on and let warm up some and then turned the heater
> > > switch on and was going to let the tubes warm up for maybe 20
> > > minutes before I would try and load the rig up on 20 meters. Band
> > > switch was set for 20 meters and the mode switch was in usb. Well
> > > maybe into warming up for around one minute the rig acted like
> > > something shorted out twice and we turn it off. WE replaced the
new
> > > 6146W tubes with the old 6146W tubes and now when we checked the
> > > idle current it goes full scale. I pulled the final unit and
> > > checked r2-r5 which are 20ohm resistors. They all check installed
in
> > > the board at 42.9ohms. Could someone please direct me into the
> > > correct area to check and help me get this rig back on the air.
> > > Thanks
> > >
> > > 73
> > > Art
> > > WB4MNK
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links

> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

> --
> ----
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
>

> --
> ----
> >
> >
> >
> >
>

> --
> ----
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.

> > Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:
> 1/6/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date:

1/6/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.15/223 - Release Date: 1/6/2006

[Non-text portions of this message have been removed]

6349. Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 01:23:37 UTC
From: Kevin der Kinderen
Topic: 6346 Message: 6349

Thanks Art... I remember seeing where someone had used the DH switch
but forgot about that. Seems like a perfect use for a switch that has
apaprently no other use.

Good to know about the internal VFO. I'm going to have to run it for
my next few QSOs and see how that goes.

Maybe next weekend I'll tackle the filter mod and will post the results.

73,
Kevin - K4VD

On 1/9/06, Arthur Petteway <wb4mnk@...> wrote:
> Hi Kevin, I have the TS-830S and did the filter mod a few years ago and it works FB on usb or lsb. I used the DH switch to change the filter off or on because it is located in an easy to use location. As far as drift my 830 after warm up is plenty stable to work psk. We work psk all the time and most of the other modes that work with a sound card. The cw filter that I have is the 500hz and using it plus the if shift and vbt you can really bring the filter edges to where you need it on most modes. Have fun and good luck with the mod.
>
> 73
> Art
> WB4MNK

6350. RE: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 04:03:10 UTC
From: Hauser, Ron M.
Topic: 6346 Message: 6350

Hey Kevin, where did you get the info on this mod? (I love this rig too!!!) And I'm moving towards setting it up for digital modes.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der Kinderen
Sent: Sunday, January 08, 2006 7:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Thanks Art... I remember seeing where someone had used the DH switch but forgot about that. Seems like a perfect use for a switch that has apaprently no other use.

Good to know about the internal VFO. I'm going to have to run it for my next few QSOs and see how that goes.

Maybe next weekend I'll tackle the filter mod and will post the results.

73,
Kevin - K4VD

On 1/9/06, Arthur Petteway <wb4mnk@bellsouth.net> wrote:
> Hi Kevin, I have the TS-830S and did the filter mod a few years ago and it works FB on usb or lsb. I used the DH switch to change the filter off or on because it is located in an easy to use location. As far as drift my 830 after warm up is plenty stable to work psk. We work psk all the time and most of the other modes that work with a sound card. The cw filter that I have is the 500hz and using it plus the if shift and vbt you can really bring the filter edges to where you need it on most modes. Have fun and good luck with the mod.
>
> 73
> Art
> WB4MNK

Yahoo! Groups Links

6351. Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 04:45:56 UTC
From: Kevin der Kinderen
Topic: 6346 Message: 6351

Ron:

The filter mod can be found here.

http://www.mods.dk/view.php?ArticleId=788

I'm using the SignaLink. Tigertronics provides a cable to connect to the mic jack. I have the external speaker and use the line-out on the speaker for audio back to the computer. The setup works OK. I have to keep the volume pretty low so I don't overdrive the sound card.

Good luck on getting the 830 on PSK. Let me know when you have it and maybe we can hook up for some testing.

73,
Kevin - K4VD

On 1/9/06, Hauser, Ron M. <eichmann@...> wrote:
> Hey Kevin, where did you get the info on this mod? (I love this rig
> too!!!) And I'm moving towards setting it up for digital modes.
>

6352. RE: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 16:03:37 UTC
From: Hauser, Ron M.
Topic: 6346 Message: 6352

Kevin, thanks. I'm also looking at getting one of those Tigertronics interfaces, basically I will have the same set up that you have. Do you have the SL-1 or the 1+ unit? In other words, are you using the remote jack on the back of your 830, or are you using the mic? I want to keep my microphone hooked up.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der Kinderen
Sent: Sunday, January 08, 2006 10:46 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Ron:

The filter mod can be found here.

http://www.mods.dk/view.php?ArticleId=788

I'm using the SignaLink. Tigertronics provides a cable to connect to the mic jack. I have the external speaker and use the line-out on the speaker for audio back to the computer. The setup works OK. I have to keep the volume pretty low so I don't overdrive the sound card.

Good luck on getting the 830 on PSK. Let me know when you have it and maybe we can hook up for some testing.

73,
Kevin - K4VD

On 1/9/06, Hauser, Ron M. <eichmann@kc.rr.com> wrote:
> Hey Kevin, where did you get the info on this mod? (I love this rig
> too!!!) And I'm moving towards setting it up for digital modes.
>

Yahoo! Groups Links

6353. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 16:12:26 UTC
From: Bill K0ZL
Topic: 6308 Message: 6353

I think the failures of new tubes have more to do with
the way they are shipped than the manufacture or
vintage.

I have received tubes packed in not much more than
their original boxes; no room for shock absorbtion
when the box is thrown or dropped.

When I ship tubes I put them in bubble wrap, then at
least 3" of foam peanuts, then a good box. Never had a
failure reported.

bill

--- Stephen Goldberg <w2imf@...> wrote:

> Art,
> Yes the 530 has been running with GE 6146W finals
> for almost 7 years with no
> problem. Tried a pair of Chinese 6146Bs first and
> they shorted as soon as I
> tried to tune up. Replaced them with the GEs from
> RF Parts. They had no
> warnings about them at that time. I burned them in
> for 24 hours with
> filaments on but no transmission and they've been
> going strong ever since.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: "Arthur Petteway" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, January 07, 2006 5:04 PM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> > Hi Stephen, Have you tried the GE/JAN 6146W in
> your TS-530? The problem I
> had with these tubes is after putting them in the
> rig I turned the TS-830S
> on and then turned the Heater switch on and in
> around a minute then took out
> R2-R5 on the Final unit board. I assume the tubes
> are shorted to cause this.
> Have you ever had this problem ?

> >
> > 73
> > Art
> > WB4MNK
> > ----- Original Message -----
> > From: Stephen Goldberg
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, January 07, 2006 2:19 PM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> >
> >
> > I'm wondering if you are measuring CW output or
> peak SSB output. If you
> are
> > measuring SSB on an averaging meter your output
> will be about 1/2 CW.
> I've
> > been using 6146W tubes in my TS-530 and FT-901DM
> (Philips in one and GE
> in
> > the other) for a number of years and get 100W+
> output on CW.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: "Arthur Petteway" <wb4mnk@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 07, 2006 12:20 PM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> >
> >
> > > Hi Walt, Thanks for the information on R11. We
> will check it out and
> see
> > if that could be a problem. On the new 6146W
> tubes I guess we will call
> the
> > company I got them from and see if they will
> replace them.
> > >
> > > 73
> > > Art
> > > WB4MNK
> > > ----- Original Message -----
> > > From: Walt Breining
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, January 07, 2006 10:01 AM
> > > Subject: Re: [TS-520_820_530_830] R2-R5
> Failure

> > >
> > >
> > > Al:
> > > Either I am getting older or the lines on my
> poor diagram copy are
> > getting
> > > closer. In any event:
> > >
> > > After further investigation, the possible
> screen divider failure I
> > mentioned
> > > earlier would only affect the tune mode so
> It is not the cause of
> your
> > > problem.
> > >
> > > However I did find something that might be
> worth checking.
> > >
> > > R-11 a 470 ohm resistor on the Rectifier
> Unit board. If it were
> high, it
> > > could cause low output.
> > >
> > > Caution!
> > > There are capacitors on this board that
> store high voltage. Follow
> the
> > > following procedure.
> > >
> > > Before attempting to work on this take the
> following precautions.
> > >
> > > Unplug the transceiver from AC mains and let
> it sit for about 5
> minutes.
> > > Using a clip lead or a screwdriver, short
> the following terminals on
> the
> > > Rectifier unit board to chassis ground. HV,
> 800, 300, 210A, 210B,
> C-.
> > The
> > > capacitors hold charges. Failure to follow
> the above procedure can
> > result in
> > > injury or death.
> > >
> > > It is looking more like the original tubes
> are weak and one of the

> new
> > ones
> > > is shorted. I have posted a procedure by
> K0ZL for testing the olde
> > ones.
> > > I'd be hesitant to try the new ones again.
> > >
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby
> Hobby and craft supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> >
>
>
> >
>

> > ----
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830"
> on the web.
> > >
> > > b.. To unsubscribe from this group, send
> an email to:
> > >
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject
> to the Yahoo! Terms of
> > Service.
> > >
> > >
> > >
>
>
> >
>

> > ----
> > >
> > >
> > >
> > >
> > >
> >
>

>
> >
>

> > ----
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.371 / Virus Database:
> 267.14.15/223 - Release Date:
> > 1/6/2006
> > >
> > >
> > > [Non-text portions of this message have been
> removed]
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
>
=== message truncated ===

When in doubt, MODIFY...

6354. Re: [TS-520_820_530_830] R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 20:28:36 UTC
From: Arthur Petteway
Topic: 6308 Message: 6354

Bill, The company I got these tubes from shipped them packed just like you are saying.

73
Art
WB4MNK
----- Original Message -----
From: Bill K0ZL
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 09, 2006 11:12 AM
Subject: Re: [TS-520_820_530_830] R2-R5 Failure

I think the failures of new tubes have more to do with
the way they are shipped than the manufacture or
vintage.

I have received tubes packed in not much more than
their original boxes; no room for shock absorbtion
when the box is thrown or dropped.

When I ship tubes I put them in bubble wrap, then at
least 3" of foam peanuts, then a good box. Never had a
failure reported.

bill

--- Stephen Goldberg <w2imf@...> wrote:

> Art,
> Yes the 530 has been running with GE 6146W finals
> for almost 7 years with no
> problem. Tried a pair of Chinese 6146Bs first and
> they shorted as soon as I
> tried to tune up. Replaced them with the GEs from
> RF Parts. They had no
> warnings about them at that time. I burned them in
> for 24 hours with
> filaments on but no transmission and they've been
> going strong ever since.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: "Arthur Petteway" <wb4mnk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, January 07, 2006 5:04 PM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>

>
> > Hi Stephen, Have you tried the GE/JAN 6146W in
> your TS-530? The problem I
> had with these tubes is after putting them in the
> rig I turned the TS-830S
> on and then turned the Heater switch on and in
> around a minute then took out
> R2-R5 on the Final unit board. I assume the tubes
> are shorted to cause this.
> Have you ever had this problem ?
> >
> > 73
> > Art
> > WB4MNK
> > ----- Original Message -----
> > From: Stephen Goldberg
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, January 07, 2006 2:19 PM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > >
> > >
> > > I'm wondering if you are measuring CW output or
> peak SSB output. If you
> are
> > > measuring SSB on an averaging meter your output
> will be about 1/2 CW.
> I've
> > > been using 6146W tubes in my TS-530 and FT-901DM
> (Philips in one and GE
> in
> > > the other) for a number of years and get 100W+
> output on CW.
> > >
> > > Steve W4IMF
> > >
> > > ----- Original Message -----
> > > From: "Arthur Petteway" <wb4mnk@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Saturday, January 07, 2006 12:20 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > >
> > > >
> > > > > Hi Walt, Thanks for the information on R11. We
> will check it out and
> see
> > > > if that could be a problem. On the new 6146W
> tubes I guess we will call
> the
> > > > company I got them from and see if they will
> replace them.

> > >
> > > 73
> > > Art
> > > WB4MNK
> > > ----- Original Message -----
> > > From: Walt Breining
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, January 07, 2006 10:01 AM
> > > Subject: Re: [TS-520_820_530_830] R2-R5
> Failure
> > >
> > >
> > > Al:
> > > Either I am getting older or the lines on my
> poor diagram copy are
> > getting
> > > closer. In any event:
> > >
> > > After further investigation, the possible
> screen divider failure I
> > mentioned
> > > earlier would only affect the tune mode so
> It is not the cause of
> your
> > > problem.
> > >
> > > However I did find something that might be
> worth checking.
> > >
> > > R-11 a 470 ohm resistor on the Rectifier
> Unit board. If it were
> high, it
> > > could cause low output.
> > >
> > > Caution!
> > > There are capacitors on this board that
> store high voltage. Follow
> the
> > > following procedure.
> > >
> > > Before attempting to work on this take the
> following precautions.
> > >
> > > Unplug the transceiver from AC mains and let
> it sit for about 5
> minutes.
> > > Using a clip lead or a screwdriver, short
> the following terminals on
> the
> > > Rectifier unit board to chassis ground. HV,

> 800, 300, 210A, 210B,
> C-.
> > The
> > > capacitors hold charges. Failure to follow
> the above procedure can
> > result in
> > > injury or death.
> > >
> > > It is looking more like the original tubes
> are weak and one of the
> new
> > ones
> > > is shorted. I have posted a procedure by
> K0ZL for testing the olde
> > ones.
> > > I'd be hesitant to try the new ones again.
> > >
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby
> Hobby and craft supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> >
>
>
> >
>

> > ----
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830"
> on the web.
> > >
> > > b.. To unsubscribe from this group, send
> an email to:
> > >
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject
> to the Yahoo! Terms of
> > Service.
> > >
> > >
> >
>
>

> >
>

> > ----
> > >
> > >
> > >
> > >
> >
>
>
> >
>

> > ----
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.371 / Virus Database:
> 267.14.15/223 - Release Date:
> > 1/6/2006
> > >
> > >
> > > [Non-text portions of this message have been
> removed]
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
>
=== message truncated ===

When in doubt, MODIFY...

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.16/225 - Release Date: 1/9/2006

[Non-text portions of this message have been removed]

6355. Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-09 20:58:43 UTC
From: Kevin der Kinderen
Topic: 6346 Message: 6355

The unit I have is the SL-1+. The cable that came with it uses the mic
jack on the front. I didn't know there was any place on the back for
audio in. It will need PTT also. I'll have to check into that.

Kevin - K4VD

On 1/9/06, Hauser, Ron M. <eichmann@...> wrote:
> Kevin, thanks. I'm also looking at getting one of those Tigertronics
> interfaces, basically I will have the same set up that you have. Do you
> have the SL-1 or the 1+ unit? In other words, are you using the remote
> jack on the back of your 830, or are you using the mic? I want to keep
> my microphone hooked up.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der
> Kinderen
> Sent: Sunday, January 08, 2006 10:46 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod
>
> Ron:
>
> The filter mod can be found here.
>
> http://www.mods.dk/view.php?ArticleId=788
>
> I'm using the SignaLink. Tigertronics provides a cable to connect to
> the mic jack. I have the external speaker and use the line-out on the
> speaker for audio back to the computer. The setup works OK. I have to
> keep the volume pretty low so I don't overdrive the sound card.
>
> Good luck on getting the 830 on PSK. Let me know when you have it and
> maybe we can hook up for some testing.
>
> 73,
> Kevin - K4VD
>
>
>
> On 1/9/06, Hauser, Ron M. <eichmann@...> wrote:
> > Hey Kevin, where did you get the info on this mod? (I love this rig
> > too!!!) And I'm moving towards setting it up for digital modes.
> >
>

>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6356. RE: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 03:29:56 UTC
From: Hauser, Ron M.
Topic: 6346 Message: 6356

Hi Kevin. Well, I wrote the previous message while I was at work, and I am now looking at both the tigertronics webpage and the 830 manual. The SL-1+ says it can be shipped with a 8 pin din connector, and it says specifically that you can jumper the cable however you need it for your rig. At work I was thinking that the remote or xverter din plugs on the back of the 830 could be used. Looks like I was half right. You can key the rig on the remote plug, but I'm not seeing any place to send audio in. The manual even says that if you want an auxiliary audio in for a phone patch like the 820 has, you have to wire an additional plug. Oh well! That just means I can go ahead and buy the cheaper SL-1 instead of the 1+.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der Kinderen
Sent: Monday, January 09, 2006 2:59 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod

The unit I have is the SL-1+. The cable that came with it uses the mic jack on the front. I didn't know there was any place on the back for audio in. It will need PTT also. I'll have to check into that.

Kevin - K4VD

On 1/9/06, Hauser, Ron M. <eichmann@kc.rr.com> wrote:
> Kevin, thanks. I'm also looking at getting one of those Tigertronics
> interfaces, basically I will have the same set up that you have. Do
you
> have the SL-1 or the 1+ unit? In other words, are you using the
remote
> jack on the back of your 830, or are you using the mic? I want to
keep
> my microphone hooked up.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der
> Kinderen
> Sent: Sunday, January 08, 2006 10:46 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod
>
> Ron:
>

> The filter mod can be found here.
>
> http://www.mods.dk/view.php?ArticleId=788
>
> I'm using the SignaLink. Tigertronics provides a cable to connect to
> the mic jack. I have the external speaker and use the line-out on the
> speaker for audio back to the computer. The setup works OK. I have to
> keep the volume pretty low so I don't overdrive the sound card.
>
> Good luck on getting the 830 on PSK. Let me know when you have it and
> maybe we can hook up for some testing.
>
> 73,
> Kevin - K4VD
>
>
>
> On 1/9/06, Hauser, Ron M. <eichmann@kc.rr.com> wrote:
> > Hey Kevin, where did you get the info on this mod? (I love this rig
> > too!!!) And I'm moving towards setting it up for digital modes.
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

Yahoo! Groups Links

6357. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 04:27:47 UTC
From: Larry
Topic: 6308 Message: 6357

My tubes arrived packe the same way. Here's my story:

I received 2 new 6146W's from (a place in Nebraska) tonight, and stuck them in the 820S. let it warm up, then hit the send switch to check idle current. It was a bit high, then OH NO! a spark from the tube section. I immediately turned off the unit, and pulled the cover. Couldn't really see any problem, so tried it again, with the same results. Couldn't tell exactly where the spark came from, but this time the IP pegged, and the cathode resistors are fried. could I have the exact same problem as Art?

I ohmed out the tube pins, and nothing shows shorted that isn't supposed to be.

I can't go any further until I get some new cathode resistors.

Larry
KC0SKX

--- In TS-520_820_530_830@yahoogroups.com, "Arthur Petteway" <wb4mnk@b...> wrote:
>
> Bill, The company I got these tubes from shipped them packed just like you are saying.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Bill K0ZL
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 09, 2006 11:12 AM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> I think the failures of new tubes have more to do with
> the way they are shipped than the manufacture or
> vintage.
>
> I have received tubes packed in not much more than
> their original boxes; no room for shock absorbtion
> when the box is thrown or dropped.
>
> When I ship tubes I put them in bubble wrap, then at
> least 3" of foam peanuts, then a good box. Never had a
> failure reported.

>
> bill
>
> --- Stephen Goldberg <w2imf@w...> wrote:
>
> > Art,
> > Yes the 530 has been running with GE 6146W finals
> > for almost 7 years with no
> > problem. Tried a pair of Chinese 6146Bs first and
> > they shorted as soon as I
> > tried to tune up. Replaced them with the GEs from
> > RF Parts. They had no
> > warnings about them at that time. I burned them in
> > for 24 hours with
> > filaments on but no transmission and they've been
> > going strong ever since.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: "Arthur Petteway" <wb4mnk@b...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 07, 2006 5:04 PM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> >
> >
> > > Hi Stephen, Have you tried the GE/JAN 6146W in
> > your TS-530? The problem I
> > had with these tubes is after putting them in the
> > rig I turned the TS-830S
> > on and then turned the Heater switch on and in
> > around a minute then took out
> > R2-R5 on the Final unit board. I assume the tubes
> > are shorted to cause this.
> > Have you ever had this problem ?
> > >
> > > 73
> > > Art
> > > WB4MNK
> > > ----- Original Message -----
> > > From: Stephen Goldberg
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, January 07, 2006 2:19 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > >
> > >
> > > I'm wondering if you are measuring CW output or
> > peak SSB output. If you
> > are
> > > measuring SSB on an averaging meter your output

> > will be about 1/2 CW.
> > I've
> > > been using 6146W tubes in my TS-530 and FT-901DM
> > (Philips in one and GE
> > in
> > > the other) for a number of years and get 100W+
> > output on CW.
> > >
> > > Steve W4IMF
> > >
> > > ----- Original Message -----
> > > From: "Arthur Petteway" <wb4mnk@b...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Saturday, January 07, 2006 12:20 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > >
> > >
> > > > Hi Walt, Thanks for the information on R11. We
> > will check it out and
> > see
> > > > if that could be a problem. On the new 6146W
> > tubes I guess we will call
> > the
> > > > company I got them from and see if they will
> > replace them.
> > > >
> > > > 73
> > > > Art
> > > > WB4MNK
> > > > ----- Original Message -----
> > > > From: Walt Breining
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Saturday, January 07, 2006 10:01 AM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5
> > Failure
> > > > >
> > > > >
> > > > Al:
> > > > Either I am getting older or the lines on my
> > poor diagram copy are
> > > > getting
> > > > closer. In any event:
> > > > >
> > > > After further investigation, the possible
> > screen divider failure I
> > > > mentioned
> > > > earlier would only affect the tune mode so
> > It is not the cause of
> > your
> > > > problem.

> > > >
> > > > However I did find something that might be
> > worth checking.
> > > >
> > > > R-11 a 470 ohm resistor on the Rectifier
> > Unit board. If it were
> > high, it
> > > > could cause low output.
> > > >
> > > > Caution!
> > > > There are capacitors on this board that
> > store high voltage. Follow
> > the
> > > > following procedure.
> > > >
> > > > Before attempting to work on this take the
> > following precautions.
> > > >
> > > > Unplug the transceiver from AC mains and let
> > it sit for about 5
> > minutes.
> > > > Using a clip lead or a screwdriver, short
> > the following terminals on
> > the
> > > > Rectifier unit board to chassis ground. HV,
> > 800, 300, 210A, 210B,
> > C-.
> > > The
> > > > capacitors hold charges. Failure to follow
> > the above procedure can
> > > result in
> > > > injury or death.
> > > >
> > > > It is looking more like the original tubes
> > are weak and one of the
> > new
> > > ones
> > > > is shorted. I have posted a procedure by
> > K0ZL for testing the olde
> > > ones.
> > > > I'd be hesitant to try the new ones again.
> > > >
> > > >
> > > >
> > > >
> > > > SPONSORED LINKS Ham radio Craft hobby
> > Hobby and craft supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >

> > >
> >
> >
> > >
> >
> --

> > > ----
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830"
> > on the web.
> > > >
> > > > b.. To unsubscribe from this group, send
> > an email to:
> > > >
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject
> > to the Yahoo! Terms of
> > > Service.
> > > >
> > > >
> > > >
> > >
> > >
> > > >
> > >
> --

> > > ----
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > >
> > >
> --

> > > ----
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.371 / Virus Database:
> > 267.14.15/223 - Release Date:
> > > 1/6/2006

> > > >
> > > >
> > > > [Non-text portions of this message have been
> > removed]
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
> > > >
> > > >
> > > >
> >
> === message truncated ===
>
>
>
> When in doubt, MODIFY...
>
>
>
>
>
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ---

>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.371 / Virus Database: 267.14.16/225 - Release Date:
1/9/2006
>
>
> [Non-text portions of this message have been removed]
>

6358. R10 Value?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 04:51:41 UTC
From: Bill Scurlock
Topic: 6358 Message: 6358

To "The Group",

I'm chasing confusing documentation for the TS-830 Final Unit (X56-1380-00; J25-2772-03). The Ip metering voltage divider, R6 - R10, has inconsistent documented values. R6 is always shown as 2700 ohms, and mine measures 2663 ohms so is probably ok. However, R10 is another story. My revised edition service manual shows R10 to be 10,000 ohms. A schematic I downloaded from the internet shows R10 to be 4700 ohms. The R10 actually installed in my radio shows to be 6800 ohms (measures 6898). All of these claim to be for the X56-1380-00 final unit. So I am confused as to the correct value for R10. I re-measured the cathode resistance again and it is still 5.06 ohms which is fine. I don't think any of this affects the somewhat low power output I'm chasing - I just wanted to know if my metering was accurate. These different values of R10 could certainly change the Ip meter indication. Does anybody out there know the correct value for R10? Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

6359. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 04:59:06 UTC
From: Bill Scurlock
Topic: 6308 Message: 6359

Larry, if your 820S uses the same four 20 ohm 1/2 watt resistors to obtain a cathode resistance of 5 ohms at 2 watts, I replaced mine in my 830S with two 10 ohm 1 watt resistors from my local Radio Shack. Others have told me that they did the same thing with good results.

Also, someone in this group posted sources for the 20 ohm 1/2 watt resistors a couple of days ago. Good Luck.

73, Bill, K5GCW
----- Original Message -----
From: Larry
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 09, 2006 10:27 PM
Subject: [TS-520_820_530_830] Re: R2-R5 Failure

My tubes arrived packe the same way. Here's my story:

I received 2 new 6146W's from (a place in Nebraska) tonight, and stuck them in the 820S. let it warm up, then hit the send switch to check idle current. It was a bit high, then OH NO! a spark from the tube section. I immediately turned off the unit, and pulled the cover. Couldn't really see any problem, so tried it again, with the same results. Couldn't tell exactly where the spark came from, but this time the IP pegged, and the cathode resistors are fried. could I have the exact same problem as Art?

I ohmed out the tube pins, and nothing shows shorted that isn't supposed to be.

I can't go any further until I get some new cathode resistors.

Larry
KC0SKX

--- In TS-520_820_530_830@yahoogroups.com, "Arthur Petteway" <wb4mnk@b...> wrote:
>
> Bill, The company I got these tubes from shipped them packed just like you are saying.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Bill K0ZL
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 09, 2006 11:12 AM

> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>
>
> I think the failures of new tubes have more to do with
> the way they are shipped than the manufacture or
> vintage.
>
> I have received tubes packed in not much more than
> their original boxes; no room for shock absorbtion
> when the box is thrown or dropped.
>
> When I ship tubes I put them in bubble wrap, then at
> least 3" of foam peanuts, then a good box. Never had a
> failure reported.
>
> bill
>
> --- Stephen Goldberg <w2imf@w...> wrote:
>
> > Art,
> > Yes the 530 has been running with GE 6146W finals
> > for almost 7 years with no
> > problem. Tried a pair of Chinese 6146Bs first and
> > they shorted as soon as I
> > tried to tune up. Replaced them with the GEs from
> > RF Parts. They had no
> > warnings about them at that time. I burned them in
> > for 24 hours with
> > filaments on but no transmission and they've been
> > going strong ever since.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: "Arthur Petteway" <wb4mnk@b...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 07, 2006 5:04 PM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > >
> > >
> > > > Hi Stephen, Have you tried the GE/JAN 6146W in
> > your TS-530? The problem I
> > had with these tubes is after putting them in the
> > rig I turned the TS-830S
> > on and then turned the Heater switch on and in
> > around a minute then took out
> > R2-R5 on the Final unit board. I assume the tubes
> > are shorted to cause this.
> > Have you ever had this problem ?
> > > >

> > > 73
> > > Art
> > > WB4MNK
> > > ----- Original Message -----
> > > From: Stephen Goldberg
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, January 07, 2006 2:19 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > >
> > > >
> > > > I'm wondering if you are measuring CW output or
> > peak SSB output. If you
> > are
> > > > measuring SSB on an averaging meter your output
> > will be about 1/2 CW.
> > I've
> > > > been using 6146W tubes in my TS-530 and FT-901DM
> > (Philips in one and GE
> > in
> > > > the other) for a number of years and get 100W+
> > output on CW.
> > > > >
> > > > Steve W4IMF
> > > > >
> > > > ----- Original Message -----
> > > > From: "Arthur Petteway" <wb4mnk@b...>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Saturday, January 07, 2006 12:20 PM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > > >
> > > > >
> > > > > Hi Walt, Thanks for the information on R11. We
> > will check it out and
> > see
> > > > > if that could be a problem. On the new 6146W
> > tubes I guess we will call
> > the
> > > > > company I got them from and see if they will
> > replace them.
> > > > > >
> > > > > > 73
> > > > > > Art
> > > > > > WB4MNK
> > > > > > ----- Original Message -----
> > > > > > From: Walt Breining
> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > > Sent: Saturday, January 07, 2006 10:01 AM
> > > > > > Subject: Re: [TS-520_820_530_830] R2-R5
> > Failure
> > > > > > >

> > > >
> > > > Al:
> > > > Either I am getting older or the lines on my
> > poor diagram copy are
> > > getting
> > > > closer. In any event:
> > > >
> > > > After further investigation, the possible
> > screen divider failure I
> > > mentioned
> > > > earlier would only affect the tune mode so
> > It is not the cause of
> > your
> > > > problem.
> > > >
> > > > However I did find something that might be
> > worth checking.
> > > >
> > > > R-11 a 470 ohm resistor on the Rectifier
> > Unit board. If it were
> > high, it
> > > > could cause low output.
> > > >
> > > > Caution!
> > > > There are capacitors on this board that
> > store high voltage. Follow
> > the
> > > > following procedure.
> > > >
> > > > Before attempting to work on this take the
> > following precautions.
> > > >
> > > > Unplug the transceiver from AC mains and let
> > it sit for about 5
> > minutes.
> > > > Using a clip lead or a screwdriver, short
> > the following terminals on
> > the
> > > > Rectifier unit board to chassis ground. HV,
> > 800, 300, 210A, 210B,
> > C-.
> > > The
> > > > capacitors hold charges. Failure to follow
> > the above procedure can
> > > result in
> > > > injury or death.
> > > >
> > > > It is looking more like the original tubes
> > are weak and one of the
> > new

> > > ones
> > > > is shorted. I have posted a procedure by
> > K0ZL for testing the olde
> > > ones.
> > > > I'd be hesitant to try the new ones again.
> > > >
> > > >
> > > >
> > > >
> > > > SPONSORED LINKS Ham radio Craft hobby
> > Hobby and craft supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >
> > >
> >
> >
> > >
> >
> --

> > > ----
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830"
> > on the web.
> > > >
> > > > b.. To unsubscribe from this group, send
> > an email to:
> > > >
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject
> > to the Yahoo! Terms of
> > > Service.
> > > >
> > > >
> > > >
> > >
> > >
> > > >
> > >
> --

> > > ----
> > > >
> > > >
> > > >
> > > >
> > > >
> > >

> >
> >
> > >
> >
> ----------

> > > ----
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.371 / Virus Database:
> > 267.14.15/223 - Release Date:
> > > 1/6/2006
> > > >
> > > >
> > > > [Non-text portions of this message have been
> > removed]
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
> > > >
> > > >
> > > >
> >
> === message truncated ===
>
>
>
> When in doubt, MODIFY...
>
>
>
>
>
>
>
>
> ----------

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.

>
>
> --

>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.16/225 - Release Date:
1/9/2006
>
>
> [Non-text portions of this message have been removed]
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6360. Re: [TS-520_820_530_830] Ready For First TS-830 Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 05:09:18 UTC
From: Kevin der Kinderen
Topic: 6346 Message: 6360

You'll have to let me know how it turns out. I discovered something new about the SL-1+ today that I didn't know it did...

I send audio and ptt to the rig through the mic jack on the front. For receive audio, I was taking the line out of the external speaker and running it direct to the computer - no isolation.

I didn't know this, but on the back of the SL-1+ (and SL-1 maybe?) there is a separate speaker jack. I was able to run the line out from the speaker to that jack and then a separate cable down to the computer. So now the SL-1 is providing isolation on that side... I think. I didn't notice any difference in performance, but a little more piece of mind.

Kevin

On 1/10/06, Hauser, Ron M. <eichmann@...> wrote:
> Hi Kevin. Well, I wrote the previous message while I was at work, and I
> am now looking at both the tigertronics webpage and the 830 manual. The
> SL-1+ says it can be shipped with a 8 pin din connector, and it says
> specifically that you can jumper the cable however you need it for your
> rig. At work I was thinking that the remote or xverter din plugs on the
> back of the 830 could be used. Looks like I was half right. You can
> key the rig on the remote plug, but I'm not seeing any place to send
> audio in. The manual even says that if you want an auxiliary audio in
> for a phone patch like the 820 has, you have to wire an additional plug.
> Oh well! That just means I can go ahead and buy the cheaper SL-1
> instead of the 1+.
>
>
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der
> Kinderen
> Sent: Monday, January 09, 2006 2:59 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod
>
> The unit I have is the SL-1+. The cable that came with it uses the mic
> jack on the front. I didn't know there was any place on the back for
> audio in. It will need PTT also. I'll have to check into that.
>
> Kevin - K4VD
>

>
> On 1/9/06, Hauser, Ron M. <eichmann@...> wrote:
> > Kevin, thanks. I'm also looking at getting one of those Tigertronics
> > interfaces, basically I will have the same set up that you have. Do
> you
> > have the SL-1 or the 1+ unit? In other words, are you using the
> remote
> > jack on the back of your 830, or are you using the mic? I want to
> keep
> > my microphone hooked up.
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin der
> > Kinderen
> > Sent: Sunday, January 08, 2006 10:46 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] Ready For First TS-830 Mod
> >
> > Ron:
> >
> > The filter mod can be found here.
> >
> > http://www.mods.dk/view.php?ArticleId=788
> >
> > I'm using the SignaLink. Tigertronics provides a cable to connect to
> > the mic jack. I have the external speaker and use the line-out on the
> > speaker for audio back to the computer. The setup works OK. I have to
> > keep the volume pretty low so I don't overdrive the sound card.
> >
> > Good luck on getting the 830 on PSK. Let me know when you have it and
> > maybe we can hook up for some testing.
> >
> > 73,
> > Kevin - K4VD
> >
> >
> >
> > On 1/9/06, Hauser, Ron M. <eichmann@...> wrote:
> > > Hey Kevin, where did you get the info on this mod? (I love this rig
> > > too!!!) And I'm moving towards setting it up for digital modes.
> > >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >

> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6361. Re: [TS-520_820_530_830] Low power 830s R10 Value?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 13:04:46 UTC
From: Walt Breining
Topic: 6361 Message: 6361

BTW, did I tell everybody to check R 14 and be sure it is 1 K. This is on the Rectifier unit board. If this were high in value, it could cause low power.

Hummm
My diagram shows 10K but it is just a print that I got off of the web so I don't think it possesses any particular magic. I would guess that perhaps there were different meters used in some productions and I would use the value originally on the board unless you think it might have been changed.

Vy 73, Walt N9WB

----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, January 09, 2006 11:51 PM
Subject: [TS-520_820_530_830] R10 Value?

> To "The Group",
>
> I'm chasing confusing documentation for the TS-830 Final Unit (X56-1380-00; J25-2772-03). The Ip metering voltage divider, R6 - R10, has inconsistent documented values. R6 is always shown as 2700 ohms, and mine measures 2663 ohms so is probably ok. However, R10 is another story. My revised edition service manual shows R10 to be 10,000 ohms. A schematic I downloaded from the internet shows R10 to be 4700 ohms. The R10 actually installed in my radio shows to be 6800 ohms (measures 6898). All of these claim to be for the X56-1380-00 final unit. So I am confused as to the correct value for R10. I re-measured the cathode resistance again and it is still 5.06 ohms which is fine. I don't think any of this affects the somewhat low power output I'm chasing - I just wanted to know if my metering was accurate. These different values of R10 could certainly change the Ip meter indication. Does anybody out there know the correct value for R10? Thanks.
>
> 73, Bill, K5GCW
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>

6362. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 15:22:16 UTC
From: Bill K0ZL
Topic: 6308 Message: 6362

Any sparking in the tubes, or spiking of plate current
with new tubes, you should do just what you did, shut
down immediately.

I have seen tubes clear a short, about 50 percent of
the time the arc once and that's it; but it's risky to
try this.

I guess the key, given the present state of supply of
tubes, is to be able to fix whatever a bad tube might
blow up in the rig and move on to another pair.

bill

--- Larry <l-sherwood@...> wrote:

> My tubes arrived packe the same way. Here's my
> story:
>
> I received 2 new 6146W's from (a place in Nebraska)
> tonight, and
> stuck them in the 820S. let it warm up, then hit the
> send switch to
> check idle current. It was a bit high, then OH NO! a
> spark from the
> tube section. I immediately turned off the unit, and
> pulled the
> cover. Couldn't really see any problem, so tried it
> again, with the
> same results. Couldn't tell exactly where the spark
> came from, but
> this time the IP pegged, and the cathode resistors
> are fried. could
> I have the exact same problem as Art?
>
> I ohmed out the tube pins, and nothing shows shorted
> that isn't
> supposed to be.
>
> I can't go any further until I get some new cathode
> resistors.
>
> Larry
> KC0SKX
>
> --- In TS-520_820_530_830@yahoogroups.com, "Arthur

> Petteway"
> <wb4mnk@b...> wrote:
> >
> > Bill, The company I got these tubes from shipped
> them packed just
> like you are saying.
> >
> > 73
> > Art
> > WB4MNK
> > ----- Original Message -----
> > From: Bill K0ZL
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, January 09, 2006 11:12 AM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> >
> >
> > I think the failures of new tubes have more to
> do with
> > the way they are shipped than the manufacture or
> > vintage.
> >
> > I have received tubes packed in not much more
> than
> > their original boxes; no room for shock
> absorbtion
> > when the box is thrown or dropped.
> >
> > When I ship tubes I put them in bubble wrap,
> then at
> > least 3" of foam peanuts, then a good box. Never
> had a
> > failure reported.
> >
> > bill
> >
> > --- Stephen Goldberg <w2imf@w...> wrote:
> >
> > > Art,
> > > Yes the 530 has been running with GE 6146W
> finals
> > > for almost 7 years with no
> > > problem. Tried a pair of Chinese 6146Bs first
> and
> > > they shorted as soon as I
> > > tried to tune up. Replaced them with the GEs
> from
> > > RF Parts. They had no
> > > warnings about them at that time. I burned
> them in

> > > for 24 hours with
> > > filaments on but no transmission and they've
> been
> > > going strong ever since.
> > >
> > > Steve W4IMF
> > >
> > > ----- Original Message -----
> > > From: "Arthur Petteway" <wb4mnk@b...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Saturday, January 07, 2006 5:04 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5
> Failure
> > >
> > >
> > > > Hi Stephen, Have you tried the GE/JAN 6146W
> in
> > > your TS-530? The problem I
> > > had with these tubes is after putting them in
> the
> > > rig I turned the TS-830S
> > > on and then turned the Heater switch on and in
> > > around a minute then took out
> > > R2-R5 on the Final unit board. I assume the
> tubes
> > > are shorted to cause this.
> > > Have you ever had this problem ?
> > > >
> > > > 73
> > > > Art
> > > > WB4MNK
> > > > ----- Original Message -----
> > > > From: Stephen Goldberg
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Saturday, January 07, 2006 2:19 PM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5
> Failure
> > > > >
> > > > >
> > > > I'm wondering if you are measuring CW
> output or
> > > peak SSB output. If you
> > > are
> > > > measuring SSB on an averaging meter your
> output
> > > will be about 1/2 CW.
> > > I've
> > > > been using 6146W tubes in my TS-530 and
> FT-901DM
> > > (Philips in one and GE

> > > in
> > > > the other) for a number of years and get
> 100W+
> > > output on CW.
> > > >
> > > > Steve W4IMF
> > > >
> > > > ----- Original Message -----
> > > > From: "Arthur Petteway" <wb4mnk@b...>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Saturday, January 07, 2006 12:20 PM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5
> Failure
> > > >
> > > >
> > > > > Hi Walt, Thanks for the information on
> R11. We
> > > will check it out and
> > > see
> > > > if that could be a problem. On the new
> 6146W
> > > tubes I guess we will call
> > > the
> > > > company I got them from and see if they
> will
> > > replace them.
> > > > >
> > > > > 73
> > > > > Art
> > > > > WB4MNK
> > > > > ----- Original Message -----
> > > > > From: Walt Breining
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Sent: Saturday, January 07, 2006 10:01
> AM
> > > > > Subject: Re: [TS-520_820_530_830]
> R2-R5
> > > Failure
> > > > >
> > > > >
> > > > > Al:
> > > > > Either I am getting older or the lines
> on my
> > > poor diagram copy are
> > > > getting
> > > > > closer. In any event:
> > > > >
> > > > > After further investigation, the
> possible
> > > screen divider failure I

> > > > mentioned
> > > > > earlier would only affect the tune
> mode so
> > > It is not the cause of
> > > your
> > > > > problem.
> > > > >
> > > > > However I did find something that
> might be
> > > worth checking.
> > > > >
> > > > > R-11 a 470 ohm resistor on the
> Rectifier
> > > Unit board. If it were
> > > high, it
> > > > > could cause low output.
> > > > >
> > > > > Caution!
> > > > > There are capacitors on this board
> that
> > > store high voltage. Follow
>
=== message truncated ===

When in doubt, MODIFY...

6363. Re: [TS-520_820_530_830] R10 Value?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 15:23:09 UTC
From: Bill K0ZL
Topic: 6358 Message: 6363

I think there were production changes to perhaps
'accurize" the plate current meter a bit.

bill

--- Bill Scurlock <k5gcw@...> wrote:

> To "The Group",
>
> I'm chasing confusing documentation for the TS-830
> Final Unit (X56-1380-00; J25-2772-03). The Ip
> metering voltage divider, R6 - R10, has inconsistent
> documented values. R6 is always shown as 2700 ohms,
> and mine measures 2663 ohms so is probably ok.
> However, R10 is another story. My revised edition
> service manual shows R10 to be 10,000 ohms. A
> schematic I downloaded from the internet shows R10
> to be 4700 ohms. The R10 actually installed in my
> radio shows to be 6800 ohms (measures 6898). All of
> these claim to be for the X56-1380-00 final unit.
> So I am confused as to the correct value for R10. I
> re-measured the cathode resistance again and it is
> still 5.06 ohms which is fine. I don't think any of
> this affects the somewhat low power output I'm
> chasing - I just wanted to know if my metering was
> accurate. These different values of R10 could
> certainly change the Ip meter indication. Does
> anybody out there know the correct value for R10?
> Thanks.
>
> 73, Bill, K5GCW
>
> [Non-text portions of this message have been
> removed]
>
>

When in doubt, MODIFY...

6364. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 15:34:43 UTC
From: Larry
Topic: 6308 Message: 6364

Actually, the 820 uses two 10 ohm, 1 watters, so the Radio Shack resistors should work fine. Ron (KC0TLN) has offered 4 of his 20 ohm resistors to tide me over until I can get some of my own.
I checked the Radio Shack web site, and they didn't show the 10 ohm 1 watters, so thanks for the heads up!

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@s...> wrote:
>
> Larry, if your 820S uses the same four 20 ohm 1/2 watt resistors to obtain a cathode resistance of 5 ohms at 2 watts, I replaced mine in my 830S with two 10 ohm 1 watt resistors from my local Radio Shack. Others have told me that they did the same thing with good results.
>
> Also, someone in this group posted sources for the 20 ohm 1/2 watt resistors a couple of days ago. Good Luck.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Larry
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 09, 2006 10:27 PM
> Subject: [TS-520_820_530_830] Re: R2-R5 Failure
>
>
> My tubes arrived packe the same way. Here's my story:
>
> I received 2 new 6146W's from (a place in Nebraska) tonight, and
> stuck them in the 820S. let it warm up, then hit the send switch
to
> check idle current. It was a bit high, then OH NO! a spark from
the
> tube section. I immediately turned off the unit, and pulled the
> cover. Couldn't really see any problem, so tried it again, with
the
> same results. Couldn't tell exactly where the spark came from,
but
> this time the IP pegged, and the cathode resistors are fried.
could
> I have the exact same problem as Art?
>
> I ohmed out the tube pins, and nothing shows shorted that isn't
> supposed to be.
>
> I can't go any further until I get some new cathode resistors.

>
> Larry
> KC0SKX
>
> --- In TS-520_820_530_830@yahoogroups.com, "Arthur Petteway"
> <wb4mnk@b...> wrote:
> >
> > Bill, The company I got these tubes from shipped them packed
just
> like you are saying.
> >
> > 73
> > Art
> > WB4MNK
> > ----- Original Message -----
> > From: Bill K0ZL
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, January 09, 2006 11:12 AM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > >
> > >
> > > I think the failures of new tubes have more to do with
> > > the way they are shipped than the manufacture or
> > > vintage.
> > >
> > > I have received tubes packed in not much more than
> > > their original boxes; no room for shock absorbtion
> > > when the box is thrown or dropped.
> > >
> > > When I ship tubes I put them in bubble wrap, then at
> > > least 3" of foam peanuts, then a good box. Never had a
> > > failure reported.
> > >
> > > bill
> > >
> > > --- Stephen Goldberg <w2imf@w...> wrote:
> > >
> > > > Art,
> > > > Yes the 530 has been running with GE 6146W finals
> > > > for almost 7 years with no
> > > > problem. Tried a pair of Chinese 6146Bs first and
> > > > they shorted as soon as I
> > > > tried to tune up. Replaced them with the GEs from
> > > > RF Parts. They had no
> > > > warnings about them at that time. I burned them in
> > > > for 24 hours with
> > > > filaments on but no transmission and they've been
> > > > going strong ever since.
> > > >
> > > > Steve W4IMF

> > >
> > > ----- Original Message -----
> > > From: "Arthur Petteway" <wb4mnk@b...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Saturday, January 07, 2006 5:04 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > >
> > > >
> > > > Hi Stephen, Have you tried the GE/JAN 6146W in
> > > your TS-530? The problem I
> > > had with these tubes is after putting them in the
> > > rig I turned the TS-830S
> > > on and then turned the Heater switch on and in
> > > around a minute then took out
> > > R2-R5 on the Final unit board. I assume the tubes
> > > are shorted to cause this.
> > > Have you ever had this problem ?
> > > > >
> > > > 73
> > > > Art
> > > > WB4MNK
> > > > ----- Original Message -----
> > > > From: Stephen Goldberg
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Saturday, January 07, 2006 2:19 PM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > > >
> > > > >
> > > > I'm wondering if you are measuring CW output or
> > > peak SSB output. If you
> > > are
> > > > measuring SSB on an averaging meter your output
> > > will be about 1/2 CW.
> > > I've
> > > > been using 6146W tubes in my TS-530 and FT-901DM
> > > (Philips in one and GE
> > > in
> > > > the other) for a number of years and get 100W+
> > > output on CW.
> > > > >
> > > > Steve W4IMF
> > > > >
> > > > ----- Original Message -----
> > > > From: "Arthur Petteway" <wb4mnk@b...>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Saturday, January 07, 2006 12:20 PM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > > >
> > > > >
> > > > > Hi Walt, Thanks for the information on R11. We

> > > will check it out and
> > > see
> > > > if that could be a problem. On the new 6146W
> > > tubes I guess we will call
> > > the
> > > > company I got them from and see if they will
> > > replace them.
> > > > >
> > > > > 73
> > > > > Art
> > > > > WB4MNK
> > > > > ----- Original Message -----
> > > > > From: Walt Breining
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Sent: Saturday, January 07, 2006 10:01 AM
> > > > > Subject: Re: [TS-520_820_530_830] R2-R5
> > > Failure
> > > > > >
> > > > > >
> > > > > Al:
> > > > > Either I am getting older or the lines on my
> > > poor diagram copy are
> > > > getting
> > > > > closer. In any event:
> > > > > >
> > > > > After further investigation, the possible
> > > screen divider failure I
> > > > mentioned
> > > > > earlier would only affect the tune mode so
> > > It is not the cause of
> > > your
> > > > > problem.
> > > > > >
> > > > > However I did find something that might be
> > > worth checking.
> > > > > >
> > > > > R-11 a 470 ohm resistor on the Rectifier
> > > Unit board. If it were
> > > high, it
> > > > > could cause low output.
> > > > > >
> > > > > Caution!
> > > > > There are capacitors on this board that
> > > store high voltage. Follow
> > > the
> > > > > following procedure.
> > > > > >
> > > > > Before attempting to work on this take the
> > > following precautions.
> > > > > >

> > > > > Unplug the transceiver from AC mains and let
> > > it sit for about 5
> > > minutes.
> > > > > Using a clip lead or a screwdriver, short
> > > the following terminals on
> > > the
> > > > > Rectifier unit board to chassis ground. HV,
> > > 800, 300, 210A, 210B,
> > > C-.
> > > > The
> > > > > capacitors hold charges. Failure to follow
> > > the above procedure can
> > > > result in
> > > > > injury or death.
> > > > >
> > > > > It is looking more like the original tubes
> > > are weak and one of the
> > > new
> > > > ones
> > > > > is shorted. I have posted a procedure by
> > > K0ZL for testing the olde
> > > > ones.
> > > > > I'd be hesitant to try the new ones again.
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > SPONSORED LINKS Ham radio Craft hobby
> > > Hobby and craft supply
> > > > > Icom ham radio Yaesu ham radio
> > > > >
> > > > >
> > > >
> > >
> > >
> > > >
> > >
> > > > >
> > > >
> > > --

> ---------
> > > > ----
> > > > > YAHOO! GROUPS LINKS
> > > > >
> > > > > a.. Visit your group "TS-520_820_530_830"
> > > on the web.
> > > > >
> > > > > b.. To unsubscribe from this group, send
> > > an email to:
> > > > >
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com

> > > > >
> > > > > c.. Your use of Yahoo! Groups is subject
> > > to the Yahoo! Terms of
> > > > Service.
> > > > > >
> > > > > >
> > > > >
> > >
> > >
> > > > >
> > >
> > ---
> ---------
> > > > > ----
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > >
> > >
> > >
> > > > >
> > >
> > ---
> ---------
> > > > > ----
> > > > > >
> > > > > >
> > > > > > No virus found in this incoming message.
> > > > > > Checked by AVG Free Edition.
> > > > > > Version: 7.1.371 / Virus Database:
> > > 267.14.15/223 - Release Date:
> > > > 1/6/2006
> > > > > >
> > > > > >
> > > > > > [Non-text portions of this message have been
> > > removed]
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > Yahoo! Groups Links
> > > > > > >
> > > > > > >
> > > > > > >
> > >
> > > === message truncated ===
> >

> >
> >
> > When in doubt, MODIFY...
> >
> >
> >
> >
> >
> >
> >
> > ---
> ---
> ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms
> of Service.
> >
> >
> > ---
> ---
> ---
> >
> >
> >
> >
> > ---
> ---
> ---
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.371 / Virus Database: 267.14.16/225 - Release
Date:
> 1/9/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> --

>
>
>
> [Non-text portions of this message have been removed]
>

6365. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 21:05:53 UTC
From: Arthur Petteway
Topic: 6308 Message: 6365

Hi Larry and the group, Well Larry you have the exact problem I have with the tubes from Nebraska. The tube I am talking about is the GE/JAN 6146W which is probably the same tube you got. Larry please e-mail me direct at wb4mnk@... because I need to ask you something.

73
Art
WB4MNK
----- Original Message -----
From: Larry
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 09, 2006 11:27 PM
Subject: [TS-520_820_530_830] Re: R2-R5 Failure

My tubes arrived packe the same way. Here's my story:

I received 2 new 6146W's from (a place in Nebraska) tonight, and stuck them in the 820S. let it warm up, then hit the send switch to check idle current. It was a bit high, then OH NO! a spark from the tube section. I immediately turned off the unit, and pulled the cover. Couldn't really see any problem, so tried it again, with the same results. Couldn't tell exactly where the spark came from, but this time the IP pegged, and the cathode resistors are fried. could I have the exact same problem as Art?

I ohmed out the tube pins, and nothing shows shorted that isn't supposed to be.

I can't go any further until I get some new cathode resistors.

Larry
KC0SKX

--- In TS-520_820_530_830@yahoogroups.com, "Arthur Petteway" <wb4mnk@b...> wrote:
>
> Bill, The company I got these tubes from shipped them packed just like you are saying.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Bill K0ZL
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 09, 2006 11:12 AM
> Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>

>
> I think the failures of new tubes have more to do with
> the way they are shipped than the manufacture or
> vintage.
>
> I have received tubes packed in not much more than
> their original boxes; no room for shock absorbtion
> when the box is thrown or dropped.
>
> When I ship tubes I put them in bubble wrap, then at
> least 3" of foam peanuts, then a good box. Never had a
> failure reported.
>
> bill
>
> --- Stephen Goldberg <w2imf@w...> wrote:
>
> > Art,
> > Yes the 530 has been running with GE 6146W finals
> > for almost 7 years with no
> > problem. Tried a pair of Chinese 6146Bs first and
> > they shorted as soon as I
> > tried to tune up. Replaced them with the GEs from
> > RF Parts. They had no
> > warnings about them at that time. I burned them in
> > for 24 hours with
> > filaments on but no transmission and they've been
> > going strong ever since.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: "Arthur Petteway" <wb4mnk@b...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 07, 2006 5:04 PM
> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> >
> >
> > > Hi Stephen, Have you tried the GE/JAN 6146W in
> > your TS-530? The problem I
> > had with these tubes is after putting them in the
> > rig I turned the TS-830S
> > on and then turned the Heater switch on and in
> > around a minute then took out
> > R2-R5 on the Final unit board. I assume the tubes
> > are shorted to cause this.
> > Have you ever had this problem ?
> > >
> > > 73
> > > Art

> > > WB4MNK
> > > ----- Original Message -----
> > > From: Stephen Goldberg
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, January 07, 2006 2:19 PM
> > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > >
> > > >
> > > > I'm wondering if you are measuring CW output or
> > peak SSB output. If you
> > are
> > > > measuring SSB on an averaging meter your output
> > will be about 1/2 CW.
> > I've
> > > > been using 6146W tubes in my TS-530 and FT-901DM
> > (Philips in one and GE
> > in
> > > > the other) for a number of years and get 100W+
> > output on CW.
> > > > >
> > > > Steve W4IMF
> > > > >
> > > > ----- Original Message -----
> > > > From: "Arthur Petteway" <wb4mnk@b...>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Saturday, January 07, 2006 12:20 PM
> > > > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
> > > > >
> > > > >
> > > > > Hi Walt, Thanks for the information on R11. We
> > will check it out and
> > see
> > > > > if that could be a problem. On the new 6146W
> > tubes I guess we will call
> > the
> > > > > company I got them from and see if they will
> > replace them.
> > > > > >
> > > > > > 73
> > > > > > Art
> > > > > > WB4MNK
> > > > > > ----- Original Message -----
> > > > > > From: Walt Breining
> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > > Sent: Saturday, January 07, 2006 10:01 AM
> > > > > > Subject: Re: [TS-520_820_530_830] R2-R5
> > Failure
> > > > > > >
> > > > > > >
> > > > > > Al:

> > > > Either I am getting older or the lines on my
> > poor diagram copy are
> > > getting
> > > > closer. In any event:
> > > >
> > > > After further investigation, the possible
> > screen divider failure I
> > > mentioned
> > > > earlier would only affect the tune mode so
> > It is not the cause of
> > your
> > > > problem.
> > > >
> > > > However I did find something that might be
> > worth checking.
> > > >
> > > > R-11 a 470 ohm resistor on the Rectifier
> > Unit board. If it were
> > high, it
> > > > could cause low output.
> > > >
> > > > Caution!
> > > > There are capacitors on this board that
> > store high voltage. Follow
> > the
> > > > following procedure.
> > > >
> > > > Before attempting to work on this take the
> > following precautions.
> > > >
> > > > Unplug the transceiver from AC mains and let
> > it sit for about 5
> > minutes.
> > > > Using a clip lead or a screwdriver, short
> > the following terminals on
> > the
> > > > Rectifier unit board to chassis ground. HV,
> > 800, 300, 210A, 210B,
> > C-.
> > > The
> > > > capacitors hold charges. Failure to follow
> > the above procedure can
> > > result in
> > > > injury or death.
> > > >
> > > > It is looking more like the original tubes
> > are weak and one of the
> > new
> > > ones
> > > > is shorted. I have posted a procedure by

> > K0ZL for testing the olde
> > > ones.
> > > > I'd be hesitant to try the new ones again.
> > > >
> > > >
> > > >
> > > >
> > > > SPONSORED LINKS Ham radio Craft hobby
> > Hobby and craft supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >
> > >
> >
> >
> > >
> >
> --

> > > ----
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830"
> > on the web.
> > > >
> > > > b.. To unsubscribe from this group, send
> > an email to:
> > > >
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject
> > to the Yahoo! Terms of
> > > Service.
> > > >
> > > >
> > >
> >
> >
> > >
> >
> --

> > > ----
> > > >
> > > >
> > > >
> > > >
> > >
> >
> >

> > >
> >
> --

> > > ----
> > > > >
> > > > >
> > > > > No virus found in this incoming message.
> > > > > Checked by AVG Free Edition.
> > > > > Version: 7.1.371 / Virus Database:
> > 267.14.15/223 - Release Date:
> > > 1/6/2006
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been
> > removed]
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > Yahoo! Groups Links
> > > > >
> > > > >
> > > > >
> > >
> === message truncated ===
>
>
>
> When in doubt, MODIFY...
>
>
>
>
>
>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>

> --

>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.371 / Virus Database: 267.14.16/225 - Release Date:
1/9/2006
>
>
> [Non-text portions of this message have been removed]
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.17/226 - Release Date: 1/10/2006

[Non-text portions of this message have been removed]

6366. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 21:11:24 UTC
From: kb2chy@frontiernet.net
Topic: 6308 Message: 6366

It is a good practice, when getting tubes being shipped in a manner other than their standup position, is to place them in the sockets for a bit with no power and let the elements settle in. Sometimes the filiments sag. Just a thought....Brad KB2CHY
Quoting Bill K0ZL <coorsbill@...>:

> Any sparking in the tubes, or spiking of plate current
> with new tubes, you should do just what you did, shut
> down immediately.
>
> I have seen tubes clear a short, about 50 percent of
> the time the arc once and that's it; but it's risky to
> try this.
>
> I guess the key, given the present state of supply of
> tubes, is to be able to fix whatever a bad tube might
> blow up in the rig and move on to another pair.
>
> bill
>
> --- Larry <l-sherwood@...> wrote:
>
>> My tubes arrived packe the same way. Here's my
>> story:
>>
>> I received 2 new 6146W's from (a place in Nebraska)
>> tonight, and
>> stuck them in the 820S. let it warm up, then hit the
>> send switch to
>> check idle current. It was a bit high, then OH NO! a
>> spark from the
>> tube section. I immediately turned off the unit, and
>> pulled the
>> cover. Couldn't really see any problem, so tried it
>> again, with the
>> same results. Couldn't tell exactly where the spark
>> came from, but
>> this time the IP pegged, and the cathode resistors
>> are fried. could
>> I have the exact same problem as Art?
>>
>> I ohmed out the tube pins, and nothing shows shorted
>> that isn't
>> supposed to be.
>>

>> I can't go any further until I get some new cathode
>> resistors.
>>
>> Larry
>> KC0SKX
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
>> Petteway"
>> <wb4mnk@b...> wrote:
>> >
>> > Bill, The company I got these tubes from shipped
>> them packed just
>> like you are saying.
>> >
>> > 73
>> > Art
>> > WB4MNK
>> > ----- Original Message -----
>> > From: Bill K0ZL
>> > To: TS-520_820_530_830@yahoogroups.com
>> > Sent: Monday, January 09, 2006 11:12 AM
>> > Subject: Re: [TS-520_820_530_830] R2-R5 Failure
>> >
>> >
>> > I think the failures of new tubes have more to
>> do with
>> > the way they are shipped than the manufacture or
>> > vintage.
>> >
>> > I have received tubes packed in not much more
>> than
>> > their original boxes; no room for shock
>> absorbtion
>> > when the box is thrown or dropped.
>> >
>> > When I ship tubes I put them in bubble wrap,
>> then at
>> > least 3" of foam peanuts, then a good box. Never
>> had a
>> > failure reported.
>> >
>> > bill
>> >
>> > --- Stephen Goldberg <w2imf@w...> wrote:
>> >
>> > > Art,
>> > > Yes the 530 has been running with GE 6146W
>> finals
>> > > for almost 7 years with no
>> > > problem. Tried a pair of Chinese 6146Bs first

>> and
>> > > they shorted as soon as I
>> > > tried to tune up. Replaced them with the GEs
>> from
>> > > RF Parts. They had no
>> > > warnings about them at that time. I burned
>> them in
>> > > for 24 hours with
>> > > filaments on but no transmission and they've
>> been
>> > > going strong ever since.
>> > >
>> > > Steve W4IMF
>> > >
>> > > ----- Original Message -----
>> > > From: "Arthur Petteway" <wb4mnk@b...>
>> > > To: <TS-520_820_530_830@yahoogroups.com>
>> > > Sent: Saturday, January 07, 2006 5:04 PM
>> > > Subject: Re: [TS-520_820_530_830] R2-R5
>> Failure
>> > >
>> > >
>> > > > Hi Stephen, Have you tried the GE/JAN 6146W
>> in
>> > > your TS-530? The problem I
>> > > had with these tubes is after putting them in
>> the
>> > > rig I turned the TS-830S
>> > > on and then turned the Heater switch on and in
>> > > around a minute then took out
>> > > R2-R5 on the Final unit board. I assume the
>> tubes
>> > > are shorted to cause this.
>> > > Have you ever had this problem ?
>> > > >
>> > > > 73
>> > > > Art
>> > > > WB4MNK
>> > > > ----- Original Message -----
>> > > > From: Stephen Goldberg
>> > > > To: TS-520_820_530_830@yahoogroups.com
>> > > > Sent: Saturday, January 07, 2006 2:19 PM
>> > > > Subject: Re: [TS-520_820_530_830] R2-R5
>> Failure
>> > > > >
>> > > > >
>> > > > I'm wondering if you are measuring CW
>> output or
>> > > peak SSB output. If you
>> > > are

>> > > > measuring SSB on an averaging meter your
>> output
>> > > will be about 1/2 CW.
>> > > I've
>> > > > been using 6146W tubes in my TS-530 and
>> FT-901DM
>> > > (Philips in one and GE
>> > > in
>> > > > the other) for a number of years and get
>> 100W+
>> > > output on CW.
>> > > >
>> > > > Steve W4IMF
>> > > >
>> > > > ----- Original Message -----
>> > > > From: "Arthur Petteway" <wb4mnk@b...>
>> > > > To: <TS-520_820_530_830@yahoogroups.com>
>> > > > Sent: Saturday, January 07, 2006 12:20 PM
>> > > > Subject: Re: [TS-520_820_530_830] R2-R5
>> Failure
>> > > >
>> > > >
>> > > > > Hi Walt, Thanks for the information on
>> R11. We
>> > > will check it out and
>> > > see
>> > > > if that could be a problem. On the new
>> 6146W
>> > > tubes I guess we will call
>> > > the
>> > > > company I got them from and see if they
>> will
>> > > replace them.
>> > > > >
>> > > > > 73
>> > > > > Art
>> > > > > WB4MNK
>> > > > > ----- Original Message -----
>> > > > > From: Walt Breining
>> > > > > To: TS-520_820_530_830@yahoogroups.com
>> > > > > Sent: Saturday, January 07, 2006 10:01
>> AM
>> > > > > Subject: Re: [TS-520_820_530_830]
>> R2-R5
>> > > Failure
>> > > > >
>> > > > >
>> > > > > Al:
>> > > > > Either I am getting older or the lines
>> on my

>> > > poor diagram copy are
>> > > > getting
>> > > > > closer. In any event:
>> > > > >
>> > > > > After further investigation, the
>> possible
>> > > screen divider failure I
>> > > > mentioned
>> > > > > earlier would only affect the tune
>> mode so
>> > > It is not the cause of
>> > > your
>> > > > > problem.
>> > > > >
>> > > > > However I did find something that
>> might be
>> > > worth checking.
>> > > > >
>> > > > > R-11 a 470 ohm resistor on the
>> Rectifier
>> > > Unit board. If it were
>> > > high, it
>> > > > > could cause low output.
>> > > > >
>> > > > > Caution!
>> > > > > There are capacitors on this board
>> that
>> > > store high voltage. Follow
>>
> === message truncated ===
>
> When in doubt, MODIFY...
>
> SPONSORED LINKS
>
> Ham radio[1] Craft hobby[2] Hobby and craft supply[3]
> Icom ham radio[4] Yaesu ham radio[5]
>
> ------------------------
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830[6]" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com[7]
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service[8].
>
> ------------------------

>
>
> Links:
> ------
> [1]
> http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w
> [2]
> http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ
> [3]
> http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA
> [4]
> http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w
> [5]
> http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w
> [6] http://groups.yahoo.com/group/TS-520_820_530_830
> [7]
> mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe
> [8] http://docs.yahoo.com/info/terms/
>

6367. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-10 22:34:46 UTC
From: Peter A Markavage
Topic: 6308 Message: 6367

I always test tubes that I buy from where-ever in a tube tester before sticking them in a rig. Saves the pain.

Pete, wa2cwa

On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@..." <kb2chy@...> writes:
It is a good practice, when getting tubes being shipped in a manner other than their standup position, is to place them in the sockets for a bit with no power and let the elements settle in. Sometimes the filiments sag. Just a thought....Brad KB2CHY
Quoting Bill K0ZL <coorsbill@...>:

> Any sparking in the tubes, or spiking of plate current
> with new tubes, you should do just what you did, shut
> down immediately.
>
> I have seen tubes clear a short, about 50 percent of
> the time the arc once and that's it; but it's risky to
> try this.
>
> I guess the key, given the present state of supply of
> tubes, is to be able to fix whatever a bad tube might
> blow up in the rig and move on to another pair.
>
> bill
>
> --- Larry <l-sherwood@...> wrote:
>
>> My tubes arrived packe the same way. Here's my
>> story:
>>
>> I received 2 new 6146W's from (a place in Nebraska)
>> tonight, and
>> stuck them in the 820S. let it warm up, then hit the
>> send switch to
>> check idle current. It was a bit high, then OH NO! a
>> spark from the
>> tube section. I immediately turned off the unit, and
>> pulled the
>> cover. Couldn't really see any problem, so tried it
>> again, with the
>> same results. Couldn't tell exactly where the spark
>> came from, but
>> this time the IP pegged, and the cathode resistors
>> are fried. could

>> I have the exact same problem as Art?
>>
>> I ohmed out the tube pins, and nothing shows shorted
>> that isn't
>> supposed to be.
>>
>> I can't go any further until I get some new cathode
>> resistors.
>>
>> Larry
>> KC0SKX
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
>> Petteway"
>> <wb4mnk@b...> wrote:
>> >
>> > Bill, The company I got these tubes from shipped
>> them packed just
>> like you are saying.
>> >
>> > 73
>> > Art
>> > WB4MNK

[Non-text portions of this message have been removed]

6368. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-11 04:03:31 UTC
From: Larry
Topic: 6308 Message: 6368

Goog advice, but I have yet to find anyone that has a tube tester
that will test the 6146's.

I'm still looking though.

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@j...> wrote:
>
> I always test tubes that I buy from where-ever in a tube tester
before
> sticking them in a rig. Saves the pain.
>
> Pete, wa2cwa
>
> On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> <kb2chy@f...> writes:
> It is a good practice, when getting tubes being shipped in a
manner
> other than their standup position, is to place them in the sockets
for
> a bit with no power and let the elements settle in. Sometimes the
> filiments sag. Just a thought....Brad KB2CHY
> Quoting Bill K0ZL <coorsbill@y...>:
>
> > Any sparking in the tubes, or spiking of plate current
> > with new tubes, you should do just what you did, shut
> > down immediately.
> >
> > I have seen tubes clear a short, about 50 percent of
> > the time the arc once and that's it; but it's risky to
> > try this.
> >
> > I guess the key, given the present state of supply of
> > tubes, is to be able to fix whatever a bad tube might
> > blow up in the rig and move on to another pair.
> >
> > bill
> >
> > --- Larry <l-sherwood@c...> wrote:
> >
> >> My tubes arrived packe the same way. Here's my
> >> story:
> >>
> >> I received 2 new 6146W's from (a place in Nebraska)
> >> tonight, and

> >> stuck them in the 820S. let it warm up, then hit the
> >> send switch to
> >> check idle current. It was a bit high, then OH NO! a
> >> spark from the
> >> tube section. I immediately turned off the unit, and
> >> pulled the
> >> cover. Couldn't really see any problem, so tried it
> >> again, with the
> >> same results. Couldn't tell exactly where the spark
> >> came from, but
> >> this time the IP pegged, and the cathode resistors
> >> are fried. could
> >> I have the exact same problem as Art?
> >>
> >> I ohmed out the tube pins, and nothing shows shorted
> >> that isn't
> >> supposed to be.
> >>
> >> I can't go any further until I get some new cathode
> >> resistors.
> >>
> >> Larry
> >> KC0SKX
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> >> Petteway"
> >> <wb4mnk@b...> wrote:
> >> >
> >> > Bill, The company I got these tubes from shipped
> >> them packed just
> >> like you are saying.
> >> >
> >> > 73
> >> > Art
> >> > WB4MNK
>
> [Non-text portions of this message have been removed]
>

6369. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-11 07:49:21 UTC
From: Peter A Markavage
Topic: 6308 Message: 6369

Don't look for tube testers from the 40's or early 50's. Many of the
"better" testers from the middle to late 60's and 70's will test 6146's.
My Hickok 800 and 6000 and Sencore "Mighty Mite" all test 6146's. Several
of the B&K and Heathkit models also test them. I never stick any tube,
whether I bought it or it came out my own tube stash, in a rig until I
first run it in a tube tester. Nothing is more frustrating then sticking
in a replacement tube and then watching something else go up in smoke.

Pete, wa2cwa

On Wed, 11 Jan 2006 04:03:31 -0000 "Larry" <l-sherwood@...>
writes:

Goog advice, but I have yet to find anyone that has a tube tester
that will test the 6146's.

I'm still looking though.

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@j...> wrote:
>
> I always test tubes that I buy from where-ever in a tube tester
before
> sticking them in a rig. Saves the pain.
>
> Pete, wa2cwa
>
> On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> <kb2chy@f...> writes:
> It is a good practice, when getting tubes being shipped in a
manner
> other than their standup position, is to place them in the sockets
for
> a bit with no power and let the elements settle in. Sometimes the
> filiments sag. Just a thought....Brad KB2CHY
> Quoting Bill K0ZL <coorsbill@y...>:
>
> > Any sparking in the tubes, or spiking of plate current
> > with new tubes, you should do just what you did, shut
> > down immediately.
> >
> > I have seen tubes clear a short, about 50 percent of
> > the time the arc once and that's it; but it's risky to
> > try this.
> >
> > I guess the key, given the present state of supply of

> > tubes, is to be able to fix whatever a bad tube might
> > blow up in the rig and move on to another pair.
> >
> > bill
> >
> > --- Larry <l-sherwood@c...> wrote:
> >
> >> My tubes arrived packe the same way. Here's my
> >> story:
> >>
> >> I received 2 new 6146W's from (a place in Nebraska)
> >> tonight, and
> >> stuck them in the 820S. let it warm up, then hit the
> >> send switch to
> >> check idle current. It was a bit high, then OH NO! a
> >> spark from the
> >> tube section. I immediately turned off the unit, and
> >> pulled the
> >> cover. Couldn't really see any problem, so tried it
> >> again, with the
> >> same results. Couldn't tell exactly where the spark
> >> came from, but
> >> this time the IP pegged, and the cathode resistors
> >> are fried. could
> >> I have the exact same problem as Art?
> >>
> >> I ohmed out the tube pins, and nothing shows shorted
> >> that isn't
> >> supposed to be.
> >>
> >> I can't go any further until I get some new cathode
> >> resistors.
> >>
> >> Larry
> >> KC0SKX
> >>
> >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> >> Petteway"
> >> <wb4mnk@b...> wrote:
> >> >
> >> > Bill, The company I got these tubes from shipped
> >> them packed just
> >> like you are saying.
> >> >
> >> > 73
> >> > Art
> >> > WB4MNK
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

6370. VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-11 17:51:26 UTC
From: tltank
Topic: 6370 Message: 6370

Hi all, this seems like a great group. I picked up a TS-830S up for a back-up to my IC-746 Pro. I like the old Kenwood very much. I was wondering if anyone has done the slow tune mod on the VFO-230. I did the mod and now it will not except anything into memory. I cut D19 D20 D22 D23 D24 D26. The mod works great as far as tuning goes.
(I have been using the 830 more than the icom)
Thanks
73 Terry

6371. Re: [TS-520_820_530_830] VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-11 19:09:06 UTC
From: John W
Topic: 6370 Message: 6371

I also did the mod and double checked it before I performed the cuts. Wound up having to have it but back together because it messed up the optical assembly calibration. After all the work I decided it was not worth it. I have seen some that worked and some more that failed.

----- Original Message ----
From: tltank <w7tlt@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 11, 2006 11:51:26 AM
Subject: [TS-520_820_530_830] VFO-230

Hi all, this seems like a great group. I picked up a TS-830S up for a
back-up to my IC-746 Pro. I like the old Kenwood very much. I was
wondering if anyone has done the slow tune mod on the VFO-230. I did
the mod and now it will not except anything into memory. I cut D19 D20
D22 D23 D24 D26. The mod works great as far as tuning goes.
(I have been using the 830 more than the icom)
Thanks
73 Terry

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6372. Re: VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-11 20:01:50 UTC
From: tltank
Topic: 6370 Message: 6372

Thanks John.

Terry
--- In TS-520_820_530_830@yahoogroups.com, John W <guildjw@y...> wrote:
>
> I also did the mod and double checked it before I performed the cuts. Wound up having to have it but back together because it messed up the optical assembly calibration. After all the work I decided it was not worth it. I have seen some that worked and some more that failed.
>
>
>
> ----- Original Message ----
> From: tltank w7tlt@i...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, January 11, 2006 11:51:26 AM
> Subject: [TS-520_820_530_830] VFO-230
>
> Hi all, this seems like a great group. I picked up a TS-830S up for a
> back-up to my IC-746 Pro. I like the old Kenwood very much. I was
> wondering if anyone has done the slow tune mod on the VFO-230. I did
> the mod and now it will not except anything into memory. I cut D19 D20
> D22 D23 D24 D26. The mod works great as far as tuning goes.
> (I have been using the 830 more than the icom)
> Thanks
> 73 Terry
>
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
>
>
>
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.

>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> [Non-text portions of this message have been removed]
>

6373. VFO-230 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-11 22:14:06 UTC
From: davewalinski
Topic: 6373 Message: 6373

I have a VFO-230 that works just fine from a cold start. 25 Khz per turn. But when warmed up only 4 or 5 Khz per turn. Have to turn the knob many more times then normal to get 25 Khz.Just not linear when turning knob. I could move the knob extremley slow and the frequency would not change at all. Something must be breaking down after getting warm. Any Ideas? It does not have the mod done to it as far as I know. Thanks.

Dave WB8SHV

6374. New TS-830S owner with a receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 07:41:00 UTC
From: danceswithtransistors
Topic: 6374 Message: 6374

Hi! I just bought a TS-830S on eBay. I got it for a discount because of a receive problem. I measured 100 watts into a dummy load in CW mode. That seems to be a typical output. So, I guess the transmit part works.

The receiver section is seriously hosed, though. It makes this God-awful noise every 25 kHz or so. The noise changes pitch like a slide whistle as you tune. There is a faint echo of this noise midway between the main occurances.

Does anyone have an idea of what the problem is?

I want to fix this myself. I haven't done anything like this in twenty years. My neighbor has a garage full of test equipment. I don't know how it will do at RF frequencies, though. The o-scope maxes out at 5 Mhz or so. The hardware guys at work said that I could borrow test equipment on the weekend if I want to.

Any help in getting me started would be greatly appreciated.

Thanks.

Mike

6375. Re: [TS-520_820_530_830] New TS-830S owner with a receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 11:13:25 UTC
From: Ken Winterling
Topic: 6374 Message: 6375

Mike,

Is it possible that the calibrator is turned on? Check the mic gain
control. If it is turned fully counter clockwise the 25KHZ calibrator
will be activated. It will generate a signal every 25KHZ across every
band.

Ken, WA2LBI

On 1/12/06, danceswithtransistors <danceswithtransistors@yahoo.com> wrote:
> Hi! I just bought a TS-830S on eBay. I got it for a discount because
> of a receive problem. I measured 100 watts into a dummy load in CW
> mode. That seems to be a typical output. So, I guess the transmit
> part works.
>
> The receiver section is seriously hosed, though. It makes this God-
> awful noise every 25 kHz or so. The noise changes pitch like a slide
> whistle as you tune. There is a faint echo of this noise midway
> between the main occurances.
>
> Does anyone have an idea of what the problem is?
>
> I want to fix this myself. I haven't done anything like this in
> twenty years. My neighbor has a garage full of test equipment. I
> don't know how it will do at RF frequencies, though. The o-scope
> maxes out at 5 Mhz or so. The hardware guys at work said that I could
> borrow test equipment on the weekend if I want to.
>
> Any help in getting me started would be greatly appreciated.
>
> Thanks.
>
> Mike
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>

6376. Re: [TS-520_820_530_830] New TS-830S owner with a receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 11:26:31 UTC
From: dennis hatch
Topic: 6374 Message: 6376

The crystal calibrator may be "on"..... Turn that "off". Then see what happens....

danceswithtransistors <danceswithtransistors@...> wrote: Hi! I just bought a TS-830S on eBay. I got it for a discount because
of a receive problem. I measured 100 watts into a dummy load in CW
mode. That seems to be a typical output. So, I guess the transmit
part works.

The receiver section is seriously hosed, though. It makes this God-
awful noise every 25 kHz or so. The noise changes pitch like a slide
whistle as you tune. There is a faint echo of this noise midway
between the main occurances.

Does anyone have an idea of what the problem is?

I want to fix this myself. I haven't done anything like this in
twenty years. My neighbor has a garage full of test equipment. I
don't know how it will do at RF frequencies, though. The o-scope
maxes out at 5 Mhz or so. The hardware guys at work said that I could
borrow test equipment on the weekend if I want to.

Any help in getting me started would be greatly appreciated.

Thanks.

Mike

Yahoo! Groups Links

Yahoo! Photos
Got holiday prints? See all the ways to get quality prints in your hands ASAP.

[Non-text portions of this message have been removed]

6377. Re: [TS-520_820_530_830] New TS-830S owner with a receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 13:41:20 UTC
From: KD5SFA
Topic: 6374 Message: 6377

Sounds like the marker generator (if I recall what it is called correctly)
is turned on. Is the MIC control set to CAL ? If so turn it to off.

73,
Jon
KD5SFA

-----Original Message-----
>From: danceswithtransistors <danceswithtransistors@...>
>Sent: Jan 12, 2006 1:41 AM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] New TS-830S owner with a receive problem
>
>Hi! I just bought a TS-830S on eBay. I got it for a discount because
>of a receive problem. I measured 100 watts into a dummy load in CW
>mode. That seems to be a typical output. So, I guess the transmit
>part works.
>
>The receiver section is seriously hosed, though. It makes this God-
>awful noise every 25 kHz or so. The noise changes pitch like a slide
>whistle as you tune. There is a faint echo of this noise midway
>between the main occurances.
>
>Does anyone have an idea of what the problem is?
>
>I want to fix this myself. I haven't done anything like this in
>twenty years. My neighbor has a garage full of test equipment. I
>don't know how it will do at RF frequencies, though. The o-scope
>maxes out at 5 Mhz or so. The hardware guys at work said that I could
>borrow test equipment on the weekend if I want to.
>
>Any help in getting me started would be greatly appreciated.
>
>Thanks.
>
>Mike
>
>
>
>
>
>
>
>
>Yahoo! Groups Links
>

>
>
>
>
>

6378. Re: [TS-520_820_530_830] New TS-830S owner with a receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 14:50:45 UTC
From: Walt Breining
Topic: 6374 Message: 6378

Be sure that your 25 kHz calibrator is not on. N9WB
----- Original Message -----
From: "danceswithtransistors" <danceswithtransistors@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 12, 2006 2:41 AM
Subject: [TS-520_820_530_830] New TS-830S owner with a receive problem

> Hi! I just bought a TS-830S on eBay. I got it for a discount because
> of a receive problem. I measured 100 watts into a dummy load in CW
> mode. That seems to be a typical output. So, I guess the transmit
> part works.
>
> The receiver section is seriously hosed, though. It makes this God-
> awful noise every 25 kHz or so. The noise changes pitch like a slide
> whistle as you tune. There is a faint echo of this noise midway
> between the main occurances.
>
> Does anyone have an idea of what the problem is?
>
> I want to fix this myself. I haven't done anything like this in
> twenty years. My neighbor has a garage full of test equipment. I
> don't know how it will do at RF frequencies, though. The o-scope
> maxes out at 5 Mhz or so. The hardware guys at work said that I could
> borrow test equipment on the weekend if I want to.
>
> Any help in getting me started would be greatly appreciated.
>
> Thanks.
>
> Mike
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6379. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 21:51:26 UTC
From: Larry
Topic: 6308 Message: 6379

Update: I found someone with a tube tester, and my tubes tested good.
I installed new cathode resistors, and the old tubes, and all is good
again.
So now I've got to work up the courage to try the new tubes in the
unit again.
I think I'll hold off for a while, at least until I get some more
cathode resistors.

regards,

KC0SKX

--- In TS-520_820_530_830@...m, "Larry" <l-sherwood@c...>
wrote:
>
>
> Good advice, but I have yet to find anyone that has a tube tester
> that will test the 6146's.
>
> I'm still looking though.
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@j...> wrote:
> >
> > I always test tubes that I buy from where-ever in a tube tester
> before
> > sticking them in a rig. Saves the pain.
> >
> > Pete, wa2cwa
> >
> > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> > <kb2chy@f...> writes:
> > It is a good practice, when getting tubes being shipped in a
> manner
> > other than their standup position, is to place them in the
sockets
> for
> > a bit with no power and let the elements settle in. Sometimes the
> > filiments sag. Just a thought....Brad KB2CHY
> > Quoting Bill K0ZL <coorsbill@y...>:
> >
> > > Any sparking in the tubes, or spiking of plate current
> > > with new tubes, you should do just what you did, shut
> > > down immediately.
> > >
> > > I have seen tubes clear a short, about 50 percent of

> > > the time the arc once and that's it; but it's risky to
> > > try this.
> > >
> > > I guess the key, given the present state of supply of
> > > tubes, is to be able to fix whatever a bad tube might
> > > blow up in the rig and move on to another pair.
> > >
> > > bill
> > >
> > > --- Larry <l-sherwood@c...> wrote:
> > >
> > >> My tubes arrived packe the same way. Here's my
> > >> story:
> > >>
> > >> I received 2 new 6146W's from (a place in Nebraska)
> > >> tonight, and
> > >> stuck them in the 820S. let it warm up, then hit the
> > >> send switch to
> > >> check idle current. It was a bit high, then OH NO! a
> > >> spark from the
> > >> tube section. I immediately turned off the unit, and
> > >> pulled the
> > >> cover. Couldn't really see any problem, so tried it
> > >> again, with the
> > >> same results. Couldn't tell exactly where the spark
> > >> came from, but
> > >> this time the IP pegged, and the cathode resistors
> > >> are fried. could
> > >> I have the exact same problem as Art?
> > >>
> > >> I ohmed out the tube pins, and nothing shows shorted
> > >> that isn't
> > >> supposed to be.
> > >>
> > >> I can't go any further until I get some new cathode
> > >> resistors.
> > >>
> > >> Larry
> > >> KC0SKX
> > >>
> > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > >> Petteway"
> > >> <wb4mnk@b...> wrote:
> > >> >
> > >> > Bill, The company I got these tubes from shipped
> > >> them packed just
> > >> like you are saying.
> > >> >
> > >> > 73
> > >> > Art

> > >> > WB4MNK
> >
> > [Non-text portions of this message have been removed]
> >
>

6380. RE: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 22:15:45 UTC
From: Apterman, Mark
Topic: 6308 Message: 6380

I was wondering with all problems with the 6146W tubes from Nebraska , means maybe that we should not use them. I also have just purchased a new matched JAN 6146W pair from Nebraska but I am afraid to use them now in my TS 820s.

Regards
Mark
VK3VLY

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Larry
Sent: Friday, 13 January 2006 8:51
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: R2-R5 Failure

Update: I found someone with a tube tester, and my tubes tested good.
I installed new cathode resistors, and the old tubes, and all is good
again.
So now I've got to work up the courage to try the new tubes in the
unit again.
I think I'll hold off for a while, at least until I get some more
cathode resistors.

regards,

KC0SKX

--- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
wrote:
>
>
> Good advice, but I have yet to find anyone that has a tube tester
> that will test the 6146's.
>
> I'm still looking though.
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@j...> wrote:
> >
> > I always test tubes that I buy from where-ever in a tube tester
> before
> > sticking them in a rig. Saves the pain.
> >
> > Pete, wa2cwa
> >
> > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."

> > <kb2chy@f...> writes:
> > It is a good practice, when getting tubes being shipped in a
> manner
> > other than their standup position, is to place them in the
sockets
> for
> > a bit with no power and let the elements settle in. Sometimes the
> > filiments sag. Just a thought....Brad KB2CHY
> > Quoting Bill K0ZL <coorsbill@y...>:
> >
> > > Any sparking in the tubes, or spiking of plate current
> > > with new tubes, you should do just what you did, shut
> > > down immediately.
> > >
> > > I have seen tubes clear a short, about 50 percent of
> > > the time the arc once and that's it; but it's risky to
> > > try this.
> > >
> > > I guess the key, given the present state of supply of
> > > tubes, is to be able to fix whatever a bad tube might
> > > blow up in the rig and move on to another pair.
> > >
> > > bill
> > >
> > > --- Larry <l-sherwood@c...> wrote:
> > >
> > >> My tubes arrived packe the same way. Here's my
> > >> story:
> > >>
> > >> I received 2 new 6146W's from (a place in Nebraska)
> > >> tonight, and
> > >> stuck them in the 820S. let it warm up, then hit the
> > >> send switch to
> > >> check idle current. It was a bit high, then OH NO! a
> > >> spark from the
> > >> tube section. I immediately turned off the unit, and
> > >> pulled the
> > >> cover. Couldn't really see any problem, so tried it
> > >> again, with the
> > >> same results. Couldn't tell exactly where the spark
> > >> came from, but
> > >> this time the IP pegged, and the cathode resistors
> > >> are fried. could
> > >> I have the exact same problem as Art?
> > >>
> > >> I ohmed out the tube pins, and nothing shows shorted
> > >> that isn't
> > >> supposed to be.
> > >>
> > >> I can't go any further until I get some new cathode

> > >> resistors.
> > >>
> > >> Larry
> > >> KC0SKX
> > >>
> > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > >> Petteway"
> > >> <wb4mnk@b...> wrote:
> > >> >
> > >> > Bill, The company I got these tubes from shipped
> > >> them packed just
> > >> like you are saying.
> > >> >
> > >> > 73
> > >> > Art
> > >> > WB4MNK
> > >
> > > [Non-text portions of this message have been removed]
> > >
>

SPONSORED LINKS
Ham <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio Craft <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
Icom <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

-----

YAHOO! GROUPS LINKS

* Visit your group " TS-520_820_530_830 <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6381. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-12 23:50:49 UTC
From: Rick
Topic: 6308 Message: 6381

I have used (and fitted in others rigs) 6146w valves to several Kenwood transceivers over the last ten years or so. My understanding is that providing the radio was designed to use 6146B's, then 6146A or 6146W are OK. The file (on this website) regarding the 6146 family makes this very clear. I am currently using NOS 6146W's from Surplus Sales, Nebraska. The term, ruggedized or military version, often used about the 6146W, refers to it's mechanical construction. It may therefore better survive the postal service!
Cheers
Rick VK4NR (ex VK7RL)

--- In TS-520_820_530_830@yahoogroups.com, "Apterman, Mark" <Mark.Apterman@c...> wrote:
>
> I was wondering with all problems with the 6146W tubes from Nebraska , means maybe that we should not use them. I also have just purchased a new matched JAN 6146W pair from Nebraska but I am afraid to use them now in my TS 820s.
>
> Regards
> Mark
> VK3VLY
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Larry
> Sent: Friday, 13 January 2006 8:51
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: R2-R5 Failure
>
>
> Update: I found someone with a tube tester, and my tubes tested good.
> I installed new cathode resistors, and the old tubes, and all is good
> again.
> So now I've got to work up the courage to try the new tubes in the
> unit again.
> I think I'll hold off for a while, at least until I get some more
> cathode resistors.
>
> regards,
>
> KC0SKX

>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
> wrote:
> >
> >
> > Good advice, but I have yet to find anyone that has a tube tester
> > that will test the 6146's.
> >
> > I'm still looking though.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > <pmarkavage@j...> wrote:
> > >
> > > I always test tubes that I buy from where-ever in a tube tester
> > before
> > > sticking them in a rig. Saves the pain.
> > >
> > > Pete, wa2cwa
> > >
> > > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> > > <kb2chy@f...> writes:
> > > It is a good practice, when getting tubes being shipped in a
> > manner
> > > other than their standup position, is to place them in the
> sockets
> > for
> > > a bit with no power and let the elements settle in. Sometimes
the
> > > filiments sag. Just a thought....Brad KB2CHY
> > > Quoting Bill K0ZL <coorsbill@y...>:
> > >
> > > > Any sparking in the tubes, or spiking of plate current
> > > > with new tubes, you should do just what you did, shut
> > > > down immediately.
> > > >
> > > > I have seen tubes clear a short, about 50 percent of
> > > > the time the arc once and that's it; but it's risky to
> > > > try this.
> > > >
> > > > I guess the key, given the present state of supply of
> > > > tubes, is to be able to fix whatever a bad tube might
> > > > blow up in the rig and move on to another pair.
> > > >
> > > > bill
> > > >
> > > > --- Larry <l-sherwood@c...> wrote:
> > > >
> > > >> My tubes arrived packe the same way. Here's my
> > > >> story:

> > > >>
> > > >> I received 2 new 6146W's from (a place in Nebraska)
> > > >> tonight, and
> > > >> stuck them in the 820S. let it warm up, then hit the
> > > >> send switch to
> > > >> check idle current. It was a bit high, then OH NO! a
> > > >> spark from the
> > > >> tube section. I immediately turned off the unit, and
> > > >> pulled the
> > > >> cover. Couldn't really see any problem, so tried it
> > > >> again, with the
> > > >> same results. Couldn't tell exactly where the spark
> > > >> came from, but
> > > >> this time the IP pegged, and the cathode resistors
> > > >> are fried. could
> > > >> I have the exact same problem as Art?
> > > >>
> > > >> I ohmed out the tube pins, and nothing shows shorted
> > > >> that isn't
> > > >> supposed to be.
> > > >>
> > > >> I can't go any further until I get some new cathode
> > > >> resistors.
> > > >>
> > > >> Larry
> > > >> KC0SKX
> > > >>
> > > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > > >> Petteway"
> > > >> <wb4mnk@b...> wrote:
> > > >> >
> > > >> > Bill, The company I got these tubes from shipped
> > > >> them packed just
> > > >> like you are saying.
> > > >> >
> > > >> > 73
> > > >> > Art
> > > >> > WB4MNK
> > > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>
>
>
>
> SPONSORED LINKS

> Ham <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.
sig=NStjWgsFtXmQaGrYd1LT5w> radio Craft <http://groups.yahoo.
com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
ly&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.
sig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby <http://groups.yahoo.
com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.
sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
> Icom <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+s
upply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.
sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu <http://groups.yahoo.
com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.
sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group " TS-520_820_530_830 <http://groups.yahoo.
com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com <mailto:
TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

6382. Re: shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 00:31:23 UTC
From: pchapman9202003
Topic: 6249 Message: 6382

Ken:

Thanks from here. I called the Shure folks two or three times and all I was able to locate from them and my own search....it has been a while....maybe been updated......was the 444 D microphone....which is somewhat of a different animal....

Your link took me to what I have been looking for quite a while...as I have the vanilla 444 that I bought new a very long time ago. Did you do the speech proc mod???....I haven't and have always been told to turn it off...so my guess is that it makes a difference.

Everyone also says the 718 Icom I also run gets thru better running the proc at 50%....so I have some valid homework to get going on now.

Thank you

--- In TS-520_820_530_830@yahoogroups.com, Ken Winterling <wa2lbi@f...> wrote:
>
> Tim,
>
> Here is the 444 data sheet:
> http://www.shure.com/pdf/discontinued/444.pdf
>
> Here is the Kenwood 8 pin mic jack wiring (this info should be in the
> '950SD manual):
> 1- mic hi
> 2- PTT
> 3- frequency down
> 4- frequency up
> 5- +8VDC
> 6- n/c
> 7- mic lo (shield)
> 8- PTT ground
>
> If your your 444 has the original factory 2 conductor cable with a
> black and white wire inside the shield then the black wire is the mic
> hi and the white wire is for PTT. The shield is common to both. If
> that is the case you would wire the connector as follows:
>
> Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> Mic white wire (PTT) to Kenwood plug pin 2 (PTT)

> Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic lo)
and
> 8 (PTT ground)
>
> While you are at it you should remove the factory jumper inside the
> base of the 444 that shorts the mic element when the PTT bar is
> released (up). With the jumper in place you need to flip the VOX
> switch under the mic AND depress/lock the PTT bar to use VOX. If
you
> remove the jumper you can leave the switch in the normal/PTT
position
> and use VOX without moving the switch or the PTT bar. This also
gives
> you the ability to over ride the VOX with the PTT if necessary.
>
> Good luck. Let me know if I can be of further assistance.
>
> Ken, WA2LBI
>
>
> On 12/28/05, tmllbrn <tmllbrn@y...> wrote:
> > Hello can any one in the group give me the mic wiring for a
shure 444
> > to a kenwood ts-950SD.
> >
> > thanks and have a happy new year
> > tim
> > W3TDM
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

6383. Re: [TS-520_820_530_830] Re: shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 00:42:35 UTC
From: Ken Winterling
Topic: 6249 Message: 6383

Glad to help!

No, I haven't done the proc mod. I usually don't run a compressor on any of my rigs except the IC-706MkIIG I use in the car and it is set rather low. Since I'm only running 100W in the car the extra "punch" is somewhat helpful. At the base station, however, even with a 100W barefoot rig I rarely use compression because it restricts the audio so much. It is OK for a short DX contact exchange but not for rag chewing. Your buddies will be very unhappy listening to you! That is probably why they tell you turn it off! :)

Ken, WA2LBI

On 1/12/06, pchapman9202003 <p_chap@bellsouth.net> wrote:
> Ken:
>
> Thanks from here. I called the Shure folks two or three times and
> all I was able to locate from them and my own search....it has been
> a while....maybe been updated......was the 444 D microphone....which
> is somewhat of a different animal....
>
> Your link took me to what I have been looking for quite a while...as
> I have the vanilla 444 that I bought new a very long time ago. Did
> you do the speech proc mod???....I haven't and have always been told
> to turn it off...so my guess is that it makes a difference.
>
> Everyone also says the 718 Icom I also run gets thru better running
> the proc at 50%....so I have some valid homework to get going on now.
>
> Thank you
>
> --- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
> <wa2lbi@f...> wrote:
> >
> > Tim,
> >
> > Here is the 444 data sheet:
> > http://www.shure.com/pdf/discontinued/444.pdf
> >
> > Here is the Kenwood 8 pin mic jack wiring (this info should be in
> the
> > '950SD manual):
> > 1- mic hi
> > 2- PTT
> > 3- frequency down
> > 4- frequency up

> > 5- +8VDC
> > 6- n/c
> > 7- mic lo (shield)
> > 8- PTT ground
> >
> > If your your 444 has the original factory 2 conductor cable with a
> > black and white wire inside the shield then the black wire is the
> mic
> > hi and the white wire is for PTT. The shield is common to both.
> If
> > that is the case you would wire the connector as follows:
> >
> > Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> > Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> > Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic lo)
> and
> > 8 (PTT ground)
> >
> > While you are at it you should remove the factory jumper inside the
> > base of the 444 that shorts the mic element when the PTT bar is
> > released (up). With the jumper in place you need to flip the VOX
> > switch under the mic AND depress/lock the PTT bar to use VOX. If
> you
> > remove the jumper you can leave the switch in the normal/PTT
> position
> > and use VOX without moving the switch or the PTT bar. This also
> gives
> > you the ability to over ride the VOX with the PTT if necessary.
> >
> > Good luck. Let me know if I can be of further assistance.
> >
> > Ken, WA2LBI
> >
> >
> > On 12/28/05, tmllbrn <tmllbrn@y...> wrote:
> > > Hello can any one in the group give me the mic wiring for a
> shure 444
> > > to a kenwood ts-950SD.
> > >
> > > thanks and have a happy new year
> > > tim
> > > W3TDM
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links

> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6384. Re: Hello All

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 02:10:39 UTC
From: pchapman9202003
Topic: 6255 Message: 6384

Welcome Trace:

One item left out is to find out what ham candy stores are in your area in addition to clubs. They are usually staffed by hams and will help guide you in purchasing accesories. Nearly every one of them I have dealt with are not high pressure to make you buy something you do not need. They are a good place to start for a lot of accesories before taking a chance on "Bargains at hamfests and online sales" until becoming acclimated to that environment. When you get your license, they will also let you play with live gear!

The 820 is a great rig and I love the one I have...It does not have a built in SWR meter. If you build single band dipoles, you may only need a meter....to crop your antennas to the right operating freq. Always build long when you do not have a tuner and only a meter.

Ham stores also sell pre-built wire antennas, and eham.net is one of several places you can research for customer satisfaction for a lot of ham products, new, old, and very old.

If you want to run multi-bands like a G5RV or others...you will need a tuner....Then you have to decide auto tuner or manual...Mine is Manual...but auto prices have come down for low power rigs lately, so if I had to do it again I may auto....they vary wildly in results, so research if you go that way....

If you think you might want big power later install big coax now. If not, install low loss small coax. Small coax will have a bit of power waste, but there are varying qualities and losses in that arena. Again do your homework on small coax if you go that route.

Use good "ham rated rope" to hang wire antennas...well worth a very small extra cost. I re-hung my G5 multi band antenna 3 times in less than two years with big but rot prone material. After changing, it has been up over two years and still holding up well.

You can homebrew an antenna hanger for under $20 U.S. with a low end fishing reel and a sling-shot and hit branches 50 feet high (That's 15 meters or so). It works, I have a picture on either here or the amateur repair group page on what it looks like.

Again, as others have stated, if you can find a local club, join, as you will find others, who may show you around the ham bands, and sit in their shack, so that you can find what your operating preferences for what bands you grow to like may be.

You will get plenty of help here from a lot of good people in your Kenwood endevors...and thank you for serving our country!

--- In TS-520_820_530_830@yahoogroups.com, "txtwist2000" <txtwist2000@y...> wrote:
>
> I joined the group awhile back but I don't think I've posted..
> Actually received a TS-820S for my birthday back in July but because
> of my family situation I've only been able to rig it with a 1/4 wave
> dipole and listened in on a few convo's. No license yet. I was in the
> army, was commo there so I'm familiar with antennas and radios, just
> not this particular one and the antennas we had were auto-matching (OE-
> 254 for ground and matching units in the vehicles)so I'm not TOTALLY
> GREEN to this, but almost. :) Anyways, family situation has changed
> and now I have more time to have a hobby- just soliciting advice on
> where to start. I have a book (ARRL "Now You're Talking") but.. a book
> can only go so far. I don't know enough to ask questions, I have a
> radio, have an antenna, have a power source, but no idea how and where
> to start. Any help would be greatly appreciated n hope to hear from
> yall soon!
>
> Trace in Texas
>

6385. Re: as for MC-50 and MC-60

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 02:35:52 UTC
From: pchapman9202003
Topic: 6249 Message: 6385

Walt:

With a story such as this, you are hereby required to live forever and beyond...This is great stuff.

--- In TS-520_820_530_830@...m, "Walt Breining" <n9wb@n...> wrote:
>
> That is an olde trick. Actually, the MC-50 mike elements were lacking in
> articulation. Covering the side holes with scotch tape, electrical tape,
> rubber, or a toilet paper
> tube puts back pressure on the element making it more middy and adding
> articulation.
>
> The best way I found was to remove the top cover. On the sides of the
> element there is nylon cloth or sometimes felt. Putting one layer of
> masking tape over this material will increase back pressure. Use two pieces,
> one on each side between the wire connections. I found that if one on one
> side is about 1/4 inch short to not fully cover that side it is a bit
> better. Masking tape lets just the right amount of air still pass. Be
> careful.
>
> The MC-60 has many other issues. Most of these mikes had the hot audio and
> the ground reversed inside the mike itself resulting in RF and response
> problems. These are detailed in the files section of KenwoodMics Yahoo
> group.
>
> Now some history if I may reminiscence:
>
> Many people think that if they purchase the factory matching mike they will
> get great sound. Actually during the 70's and somewhat today, this was not

> the case.
> The manufactures would purchase generic elements and tailor a mike
to
> cosmetically match
> their gear. The mike was not necessary optimum electrically.
> Another problem was that these mikes were designed by people who
spoke
> Japanese.
>
> In those days, lines of communications between the Japanese
manufactures and
> American users was poor. The Japanese language uses many vowels,
the
> a,e,i,o,u sounds. The American language uses more consonants, the
c,k,s,t,
> sounds. Mikes tailored for Japanese users did not work well
> for English speaking Americans. They muffled the English language.
>
> The MC-50 uses a sound reinforcement element that is good for
Paging
> applications and for the South East Asian languages. It is the
same element
> that is some models of the muddy Diesel CB noise canceling mike
with the
> screen front sold at truck stops.
>
> In the mid 70's a group of us used to operate on 7240 late nights
and
> started wondering why some
> rigs and mikes sounded clearer and had more punch than others.
Among the
> many was Bob Heil, K9EID. Bob, like myself always liked the TS-
820. Bob
> built custom audio mixers for performers. We started using various
circuits
> to enhance our audio including series capacitors, compressors, and
> mechanical modifications such as the one above. We then started
trying
> different mike elements in our MC-50s. Heil located a source of a
square
> ceramic element that sounded much better than the MC-50 element.
He called
> it the Heil HC-1, Heil ceramic 1.
>
> Over the next couple of years, Heil did a lot of research and had
the
> manufacture of these elements to custom make elements to his audio
response
> specifications. So along came the HC-2 and the HC-3.
>

> Finally he settled on the HC-4 and HC-5. The HC-4 was a element
meant to be
> punchy with extreme mids but not natural sounding. It was for
busting DX
> pile ups. The HC-5 was a more full dynamic element in the same
package but
> had a subtle rise in the presence area to increase articulation.
The HC-5
> worked good in the MC-50.
>
> Bob then built the EQ-100 which was based on the various active EQ
projects
> that we were doing on 7240. He published this as a project in QST.
This was
> followed by the EQ-200.
>
> At Dayton engineers from Icom, Yaesu, and Kenwood attended his
audio forums
> and the result was greatly improved sound of the Asian made rigs.
Imagine
> how cool it was to have engineers from the major Amateur Radio
manufactures
> come to your forum to learn how to make their gear better!
>
> Bob started making mikes using the HC elements and perfected the
enclosure
> design to enhance his elements. The enclosure has a lot to do with
the
> sound.
>
> Heil later contracted the manufacture of some dynamic elements
that were
> physically more typical of normal dynamic elements but still had
boosted
> articulation. Heil started marketing headsets that the broadcast
sports
> industry picked up on. They typically used the HC-5 element.
>
> Dynamic elements had not changed much for over 20 years, until the
last
> couple of years.
> Then Heil, with the help of Joe Walsh, and a guy that has an
outstanding
> tool shop along with others came up with a new Dynamic design that
used low
> mass (light weight) wire and a quilted element, among other
features found
> in the $1000 mikes such as a hum bucking coil. Heil incorporated
these new
> elements in his Pro 20, 30, and 40 as well as in his Classic

microphone
> series.
>
> The Pro 40 is really getting noticed by the broadcast industry.
One of
> those now replaces the 77 DX on David Letterman's desk. It has
many of the
> qualities of a condenser mike but does not require phantom power
and does
> not pop and hiss as bad as condensers do.
>
> As Bob says, "It all starts with the microphone." All of this
started with
> efforts to improve the MC-50 microphone using tape and toilet
paper tubes!
>
> Now some notes:
>
> BTW, ESSB (enhanced single side band) is not new. It started on
7240 in the
> mid 70's.
>
> K0ZL pointed out that elements from microphones used with tape and
cassette
> recorders made before the use of electret elements are often good
sounding
> replacements in Kenwood mikes.
>
> Please note that we have a Yahoo forum connected with this one
called
> KenwoodMics. We probably should be discussing a lot of these mike
issues
> there.
>
> Want a Pro 40? The Fox Tango yahoo group is raffling off a Heil
Pro-40 and a
> H.F. mobile rig.
>
> http://foxtango.org/ft857d/FT-857D Club Contest.htm
>
>
> Vy 73, Walt N9WB
> Good audio is an Amateur Radio tradition, not a crime.
>
>
>
> ----- Original Message -----
> From: "P. Coppin" <copa054@c...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, January 05, 2006 5:32 AM

> Subject: [TS-520_820_530_830] as for MC-50 and MC-60
>
>
> > Did you hear about this modification ??
> >
> >
> >
> > About 20 years ago several dxer suggested to cover the sides
holes of
> mc-50
> > and 60 with rubber or scotch tape to have a higher audio quality
(probably
> > to cut the room noise).
> >
> > I did it on both microphones. They sound good.
> >
> > I have sent a picture of my shack to the group's album.
> >
> >
> >
> > I8ixo
> >
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

6386. Re: [TS-520_820_530_830] Re: shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 03:56:24 UTC
From: Walt Breining
Topic: 6249 Message: 6386

Thank You. Now if we could convert it into a form that we could place in
the files or pictures section of this and the KenwoodMics group.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "pchapman9202003" <p_chap@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 12, 2006 7:31 PM
Subject: [TS-520_820_530_830] Re: shure 444 to kenwood ts-950SD

> Ken:
>
> Thanks from here. I called the Shure folks two or three times and
> all I was able to locate from them and my own search....it has been
> a while....maybe been updated......was the 444 D microphone....which
> is somewhat of a different animal....
>
> Your link took me to what I have been looking for quite a while...as
> I have the vanilla 444 that I bought new a very long time ago. Did
> you do the speech proc mod???....I haven't and have always been told
> to turn it off...so my guess is that it makes a difference.
>
> Everyone also says the 718 Icom I also run gets thru better running
> the proc at 50%....so I have some valid homework to get going on now.
>
> Thank you
>
> --- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
> <wa2lbi@f...> wrote:
> >
> > Tim,
> >
> > Here is the 444 data sheet:
> > http://www.shure.com/pdf/discontinued/444.pdf
> >
> > Here is the Kenwood 8 pin mic jack wiring (this info should be in
> the
> > '950SD manual):
> > 1- mic hi
> > 2- PTT
> > 3- frequency down
> > 4- frequency up
> > 5- +8VDC
> > 6- n/c

> > 7- mic lo (shield)
> > 8- PTT ground
> >
> > If your your 444 has the original factory 2 conductor cable with a
> > black and white wire inside the shield then the black wire is the
> mic
> > hi and the white wire is for PTT. The shield is common to both.
> If
> > that is the case you would wire the connector as follows:
> >
> > Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> > Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> > Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic lo)
> and
> > 8 (PTT ground)
> >
> > While you are at it you should remove the factory jumper inside the
> > base of the 444 that shorts the mic element when the PTT bar is
> > released (up). With the jumper in place you need to flip the VOX
> > switch under the mic AND depress/lock the PTT bar to use VOX. If
> you
> > remove the jumper you can leave the switch in the normal/PTT
> position
> > and use VOX without moving the switch or the PTT bar. This also
> gives
> > you the ability to over ride the VOX with the PTT if necessary.
> >
> > Good luck. Let me know if I can be of further assistance.
> >
> > Ken, WA2LBI
> >
> >
> > On 12/28/05, tmllbrn <tmllbrn@y...> wrote:
> > > Hello can any one in the group give me the mic wiring for a
> shure 444
> > > to a kenwood ts-950SD.
> > >
> > > thanks and have a happy new year
> > > tim
> > > W3TDM
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >

> > >
> > >
> > >
> > >
> > >
> >
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6387. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 10:08:38 UTC
From: Richard Harris
Topic: 6308 Message: 6387

What anode voltage were the tubes tested at? From the data sheet, the
maximum anode voltage of the 6146W is 600V for standard commercial service
and 750V is permitted for Amateur service. The Kenwood rigs use 800V.
Perhaps the tube tester used 600V.

Hold off changing as long as possible!

Richard G3OTK

At 21:51 12/01/2006 +0000, you wrote:
>Update: I found someone with a tube tester, and my tubes tested good.
>I installed new cathode resistors, and the old tubes, and all is good
>again.
>So now I've got to work up the courage to try the new tubes in the
>unit again.
>I think I'll hold off for a while, at least until I get some more
>cathode resistors.
>
>regards,
>
>KC0SKX
>
>
>--- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
>wrote:
> >
> >
> > Good advice, but I have yet to find anyone that has a tube tester
> > that will test the 6146's.
> >
> > I'm still looking though.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > <pmarkavage@j...> wrote:
> > >
> > > I always test tubes that I buy from where-ever in a tube tester
> > before
> > > sticking them in a rig. Saves the pain.
> > >
> > > Pete, wa2cwa
> > >
> > > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> > > <kb2chy@f...> writes:
> > > It is a good practice, when getting tubes being shipped in a
> > manner
> > > other than their standup position, is to place them in the

>sockets
> > for
> > > a bit with no power and let the elements settle in. Sometimes the
> > > filiments sag. Just a thought....Brad KB2CHY
> > > Quoting Bill K0ZL <coorsbill@y...>:
> > >
> > > > Any sparking in the tubes, or spiking of plate current
> > > > with new tubes, you should do just what you did, shut
> > > > down immediately.
> > > >
> > > > I have seen tubes clear a short, about 50 percent of
> > > > the time the arc once and that's it; but it's risky to
> > > > try this.
> > > >
> > > > I guess the key, given the present state of supply of
> > > > tubes, is to be able to fix whatever a bad tube might
> > > > blow up in the rig and move on to another pair.
> > > >
> > > > bill
> > > >
> > > > --- Larry <l-sherwood@c...> wrote:
> > > >
> > > >> My tubes arrived packe the same way. Here's my
> > > >> story:
> > > >>
> > > >> I received 2 new 6146W's from (a place in Nebraska)
> > > >> tonight, and
> > > >> stuck them in the 820S. let it warm up, then hit the
> > > >> send switch to
> > > >> check idle current. It was a bit high, then OH NO! a
> > > >> spark from the
> > > >> tube section. I immediately turned off the unit, and
> > > >> pulled the
> > > >> cover. Couldn't really see any problem, so tried it
> > > >> again, with the
> > > >> same results. Couldn't tell exactly where the spark
> > > >> came from, but
> > > >> this time the IP pegged, and the cathode resistors
> > > >> are fried. could
> > > >> I have the exact same problem as Art?
> > > >>
> > > >> I ohmed out the tube pins, and nothing shows shorted
> > > >> that isn't
> > > >> supposed to be.
> > > >>
> > > >> I can't go any further until I get some new cathode
> > > >> resistors.
> > > >>
> > > >> Larry
> > > >> KC0SKX

> > > >>
> > > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > > >> Petteway"
> > > >> <wb4mnk@b...> wrote:
> > > >> >
> > > >> > Bill, The company I got these tubes from shipped
> > > >> them packed just
> > > >> like you are saying.
> > > >> >
> > > >> > 73
> > > >> > Art
> > > >> > WB4MNK
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
> >
> >
> >
> >
> >
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *

> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6388. Re: [TS-520_820_530_830] Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 12:25:47 UTC
From: Walt Breining
Topic: 6308 Message: 6388

The tester probably used 150 to 200 v. That would show a short but not a high voltage arc. As I've always said, if a tube checker shows a tube is bad it usually is. If it shows that the tube is good it might be.

Good point Richard.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.
----- Original Message -----
From: "Richard Harris" <rjharris@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 5:08 AM
Subject: Re: [TS-520_820_530_830] Re: R2-R5 Failure

> What anode voltage were the tubes tested at? From the data sheet, the
> maximum anode voltage of the 6146W is 600V for standard commercial service
> and 750V is permitted for Amateur service. The Kenwood rigs use 800V.
> Perhaps the tube tester used 600V.
>
> Hold off changing as long as possible!
>
> Richard G3OTK
>
> At 21:51 12/01/2006 +0000, you wrote:
> >Update: I found someone with a tube tester, and my tubes tested good.
> >I installed new cathode resistors, and the old tubes, and all is good
> >again.
> >So now I've got to work up the courage to try the new tubes in the
> >unit again.
> >I think I'll hold off for a while, at least until I get some more
> >cathode resistors.
> >
> >regards,
> >
> >KC0SKX
> >
> >
> >--- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
> >wrote:
> > >
> > >
> > > Good advice, but I have yet to find anyone that has a tube tester
> > > that will test the 6146's.
> > >
> > > I'm still looking though.
> > >

> > > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > > <pmarkavage@j...> wrote:
> > > >
> > > > I always test tubes that I buy from where-ever in a tube tester
> > > before
> > > > sticking them in a rig. Saves the pain.
> > > >
> > > > Pete, wa2cwa
> > > >
> > > > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> > > > <kb2chy@f...> writes:
> > > > It is a good practice, when getting tubes being shipped in a
> > > manner
> > > > other than their standup position, is to place them in the
> >sockets
> > > for
> > > > a bit with no power and let the elements settle in. Sometimes the
> > > > filiments sag. Just a thought....Brad KB2CHY
> > > > Quoting Bill K0ZL <coorsbill@y...>:
> > > >
> > > > > Any sparking in the tubes, or spiking of plate current
> > > > > with new tubes, you should do just what you did, shut
> > > > > down immediately.
> > > > >
> > > > > I have seen tubes clear a short, about 50 percent of
> > > > > the time the arc once and that's it; but it's risky to
> > > > > try this.
> > > > >
> > > > > I guess the key, given the present state of supply of
> > > > > tubes, is to be able to fix whatever a bad tube might
> > > > > blow up in the rig and move on to another pair.
> > > > >
> > > > > bill
> > > > >
> > > > > --- Larry <l-sherwood@c...> wrote:
> > > > >
> > > > >> My tubes arrived packe the same way. Here's my
> > > > >> story:
> > > > >>
> > > > >> I received 2 new 6146W's from (a place in Nebraska)
> > > > >> tonight, and
> > > > >> stuck them in the 820S. let it warm up, then hit the
> > > > >> send switch to
> > > > >> check idle current. It was a bit high, then OH NO! a
> > > > >> spark from the
> > > > >> tube section. I immediately turned off the unit, and
> > > > >> pulled the
> > > > >> cover. Couldn't really see any problem, so tried it
> > > > >> again, with the
> > > > >> same results. Couldn't tell exactly where the spark

> > > > >> came from, but
> > > > >> this time the IP pegged, and the cathode resistors
> > > > >> are fried. could
> > > > >> I have the exact same problem as Art?
> > > > >>
> > > > >> I ohmed out the tube pins, and nothing shows shorted
> > > > >> that isn't
> > > > >> supposed to be.
> > > > >>
> > > > >> I can't go any further until I get some new cathode
> > > > >> resistors.
> > > > >>
> > > > >> Larry
> > > > >> KC0SKX
> > > > >>
> > > > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > > > >> Petteway"
> > > > >> <wb4mnk@b...> wrote:
> > > > >> >
> > > > >> > Bill, The company I got these tubes from shipped
> > > > >> them packed just
> > > > >> like you are saying.
> > > > >> >
> > > > >> > 73
> > > > >> > Art
> > > > >> > WB4MNK
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >SPONSORED LINKS
> >
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&
w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.si
g=NStjWgsFtXmQaGrYd1LT5w>Ham
> >radio
>
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobb
y&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.
sig=RIfve-PXBTtOVJV48uzEVQ>Craft
> >hobby
>
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2
=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&

c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
> >and craft supply
>
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=10
1&.sig=_InABMy_m6lCJHFiWobT2w>Icom
> >ham radio
>
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+
hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=1
01&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
> >ham radio
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> > "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830"
on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> >
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>T
S-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>
> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267

> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>
> Web site www.pipstechnology.com
>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain information
> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation to whom
> it is addressed. If you are not the intended recipient it is strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6389. Re: [TS-520_820_530_830] MC-50(hi-Z setting) into a TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 14:05:11 UTC
From: Dave and Loraine
Topic: 6342 Message: 6389

Hi Walt,
Thanks for the good advice
No problem found with the driver test.
With the 'toilet-roll' mod, close-talk and 60% mic gain, the ALC is OK.
I'm comfortable with 4" distance and the mic mod using full mic gain.
Next time I lift the hood, I'll check the mic amp voltages and tweak the processor RF slugs for
best quality.
Thanks again
Dave F4EYK

6390. Differently coloured Frequency Selector and Make\Model Badge

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 14:55:04 UTC
From: M0GSM
Topic: 6390 Message: 6390

Hi,

A quick question....

Have had 2 830s in my time. The second one has a different coloured frequency selector. Unlike the first 830 which matchs the colour of the rig i.e olive green(ish) with silver centre, and the frequency markings aree green on white.

This second one has a darker green selector with a off silver/white metallic centre, and frequency marking are white on a dark green background. Also the model badge 'Trio 830S' is bronze as oppose to silver on my first rig.

I was thinking the the frequency selector has been replaced but the the frequency marking match the dial(it looks like the original), and the name plate is matching i.e not silver but bronzy\green colour.

What does this tell me about the rig. Is it a later model or something?

Dave

6391. Re: shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 15:43:28 UTC
From: pchapman9202003
Topic: 6249 Message: 6391

Walt:

I'm better at computers than radios and I have done the transition before, but has been awhile. Adobe does like you changing their stuff.

Will try to figure this one out.

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> Thank You. Now if we could convert it into a form that we could place in
> the files or pictures section of this and the KenwoodMics group.
>
>
> Vy 73, Walt N9WB
> Good audio is an Amateur Radio tradition, not a crime.
>
> ----- Original Message -----
> From: "pchapman9202003" <p_chap@b...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, January 12, 2006 7:31 PM
> Subject: [TS-520_820_530_830] Re: shure 444 to kenwood ts-950SD
>
>
> > Ken:
> >
> > Thanks from here. I called the Shure folks two or three times and
> > all I was able to locate from them and my own search....it has been
> > a while....maybe been updated......was the 444 D microphone....which
> > is somewhat of a different animal....
> >
> > Your link took me to what I have been looking for quite a while...as
> > I have the vanilla 444 that I bought new a very long time ago. Did
> > you do the speech proc mod???....I haven't and have always been told
> > to turn it off...so my guess is that it makes a difference.
> >
> > Everyone also says the 718 Icom I also run gets thru better running
> > the proc at 50%....so I have some valid homework to get going on

now.
> >
> > Thank you
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
> > <wa2lbi@f...> wrote:
> > >
> > > Tim,
> > >
> > > Here is the 444 data sheet:
> > > http://www.shure.com/pdf/discontinued/444.pdf
> > >
> > > Here is the Kenwood 8 pin mic jack wiring (this info should be
in
> > the
> > > '950SD manual):
> > > 1- mic hi
> > > 2- PTT
> > > 3- frequency down
> > > 4- frequency up
> > > 5- +8VDC
> > > 6- n/c
> > > 7- mic lo (shield)
> > > 8- PTT ground
> > >
> > > If your your 444 has the original factory 2 conductor cable
with a
> > > black and white wire inside the shield then the black wire is
the
> > mic
> > > hi and the white wire is for PTT. The shield is common to
both.
> > If
> > > that is the case you would wire the connector as follows:
> > >
> > > Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> > > Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> > > Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic
lo)
> > and
> > > 8 (PTT ground)
> > >
> > > While you are at it you should remove the factory jumper
inside the
> > > base of the 444 that shorts the mic element when the PTT bar is
> > > released (up). With the jumper in place you need to flip the
VOX
> > > switch under the mic AND depress/lock the PTT bar to use VOX.
If
> > you

> > > remove the jumper you can leave the switch in the normal/PTT
> > position
> > > and use VOX without moving the switch or the PTT bar. This
also
> > gives
> > > you the ability to over ride the VOX with the PTT if necessary.
> > >
> > > Good luck. Let me know if I can be of further assistance.
> > >
> > > Ken, WA2LBI
> > >
> > >
> > > On 12/28/05, tmllbrn <tmllbrn@y...> wrote:
> > > > Hello can any one in the group give me the mic wiring for a
> > shure 444
> > > > to a kenwood ts-950SD.
> > > >
> > > > thanks and have a happy new year
> > > > tim
> > > > W3TDM
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >

> >
>

6392. Re: shure 444 to kenwood ts-950SD

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 16:02:47 UTC
From: pchapman9202003
Topic: 6249 Message: 6392

Walt:

I emailed it to you in a MS Word format...unfortunately, it is large at 874 k. I'll do a couple of double converts and try to shrink it down a bit without having to zip it.

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> Thank You. Now if we could convert it into a form that we could place in
> the files or pictures section of this and the KenwoodMics group.
>
>
> Vy 73, Walt N9WB
> Good audio is an Amateur Radio tradition, not a crime.
>
> ----- Original Message -----
> From: "pchapman9202003" <p_chap@b...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, January 12, 2006 7:31 PM
> Subject: [TS-520_820_530_830] Re: shure 444 to kenwood ts-950SD
>
>
> > Ken:
> >
> > Thanks from here. I called the Shure folks two or three times and
> > all I was able to locate from them and my own search....it has been
> > a while....maybe been updated......was the 444 D microphone....which
> > is somewhat of a different animal....
> >
> > Your link took me to what I have been looking for quite a while...as
> > I have the vanilla 444 that I bought new a very long time ago. Did
> > you do the speech proc mod???....I haven't and have always been told
> > to turn it off...so my guess is that it makes a difference.
> >
> > Everyone also says the 718 Icom I also run gets thru better running
> > the proc at 50%....so I have some valid homework to get going on now.

> >
> > Thank you
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Ken Winterling
> > <wa2lbi@f...> wrote:
> > >
> > > Tim,
> > >
> > > Here is the 444 data sheet:
> > > http://www.shure.com/pdf/discontinued/444.pdf
> > >
> > > Here is the Kenwood 8 pin mic jack wiring (this info should be
in
> > the
> > > '950SD manual):
> > > 1- mic hi
> > > 2- PTT
> > > 3- frequency down
> > > 4- frequency up
> > > 5- +8VDC
> > > 6- n/c
> > > 7- mic lo (shield)
> > > 8- PTT ground
> > >
> > > If your your 444 has the original factory 2 conductor cable
with a
> > > black and white wire inside the shield then the black wire is
the
> > mic
> > > hi and the white wire is for PTT. The shield is common to
both.
> > If
> > > that is the case you would wire the connector as follows:
> > >
> > > Mic black wire (mic hi) to Kenwood plug pin 1 (mic hi)
> > > Mic white wire (PTT) to Kenwood plug pin 2 (PTT)
> > > Mic shield (mic lo and PTT ground) to Kenwood plug pins 7 (mic
lo)
> > and
> > > 8 (PTT ground)
> > >
> > > While you are at it you should remove the factory jumper
inside the
> > > base of the 444 that shorts the mic element when the PTT bar is
> > > released (up). With the jumper in place you need to flip the
VOX
> > > switch under the mic AND depress/lock the PTT bar to use VOX.
If
> > you
> > > remove the jumper you can leave the switch in the normal/PTT

> > position
> > > and use VOX without moving the switch or the PTT bar. This
also
> > gives
> > > you the ability to over ride the VOX with the PTT if necessary.
> > >
> > > Good luck. Let me know if I can be of further assistance.
> > >
> > > Ken, WA2LBI
> > >
> > >
> > > On 12/28/05, tmllbrn <tmllbrn@y...> wrote:
> > > > Hello can any one in the group give me the mic wiring for a
> > shure 444
> > > > to a kenwood ts-950SD.
> > > >
> > > > thanks and have a happy new year
> > > > tim
> > > > W3TDM
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >

>

6393. New Member/Hello Kenwood Group!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 16:26:11 UTC
From: wb5dx
Topic: 6393 Message: 6393

Hello - I have just joined to learn a bit about the 830 and the 530. I don't yet own one. But, my plan is to get either model for a couple of reasons. I have been moderately active in recent years (after a long abscence) but have ony "operated" solid state equipment. I have also forgotten more than I acutally knew in part because I just can't work on my current equipment! I have always admired the 830/ 530 line, I thought I could aquire one to enjoy and to provide a way to bring back some of the lost knowledge as they seem to be a bit more service friendly (better than a 756Pro, etc).

Which would be the better choice - the 830 or 530? I have been watching Ebay and the prices seem a bit high. Is that the best source? Should I get a dead one and learn more by rebuilding or get a reburbished one and maintain - or some where in between? Any known dealers to be concerned about (good/bad, etc). What are the price ranges that could be expected?

There certainly seems to be an incredible wealth of knowledge on this forum (and patience!), so I thought this would be a good place to start.

Thanks for any help.

73,

Bill

[Non-text portions of this message have been removed]

6394. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 16:50:18 UTC
From: Larry
Topic: 6308 Message: 6394

At this point, since they tested good on the tube tester, I have no way to prove that the tube(s) are bad, The only thing I can do is try them in the unit again.

--- In TS-520_820_530_830@yahoogroups.com, "Apterman, Mark" <Mark.Apterman@c...> wrote:
>
> I was wondering with all problems with the 6146W tubes from Nebraska , means maybe that we should not use them. I also have just purchased a new matched JAN 6146W pair from Nebraska but I am afraid to use them now in my TS 820s.
>
> Regards
> Mark
> VK3VLY
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Larry
> Sent: Friday, 13 January 2006 8:51
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: R2-R5 Failure
>
>
> Update: I found someone with a tube tester, and my tubes tested good.
> I installed new cathode resistors, and the old tubes, and all is good
> again.
> So now I've got to work up the courage to try the new tubes in the
> unit again.
> I think I'll hold off for a while, at least until I get some more
> cathode resistors.
>
> regards,
>
> KC0SKX
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
> wrote:
> >
> >

> > Good advice, but I have yet to find anyone that has a tube tester
> > that will test the 6146's.
> >
> > I'm still looking though.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > <pmarkavage@j...> wrote:
> > >
> > > I always test tubes that I buy from where-ever in a tube tester
> > before
> > > sticking them in a rig. Saves the pain.
> > >
> > > Pete, wa2cwa
> > >
> > > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> > > <kb2chy@f...> writes:
> > > It is a good practice, when getting tubes being shipped in a
> > manner
> > > other than their standup position, is to place them in the
> sockets
> > for
> > > a bit with no power and let the elements settle in. Sometimes
the
> > > filiments sag. Just a thought....Brad KB2CHY
> > > Quoting Bill K0ZL <coorsbill@y...>:
> > >
> > > > Any sparking in the tubes, or spiking of plate current
> > > > with new tubes, you should do just what you did, shut
> > > > down immediately.
> > > >
> > > > I have seen tubes clear a short, about 50 percent of
> > > > the time the arc once and that's it; but it's risky to
> > > > try this.
> > > >
> > > > I guess the key, given the present state of supply of
> > > > tubes, is to be able to fix whatever a bad tube might
> > > > blow up in the rig and move on to another pair.
> > > >
> > > > bill
> > > >
> > > > --- Larry <l-sherwood@c...> wrote:
> > > >
> > > >> My tubes arrived packe the same way. Here's my
> > > >> story:
> > > >>
> > > >> I received 2 new 6146W's from (a place in Nebraska)
> > > >> tonight, and
> > > >> stuck them in the 820S. let it warm up, then hit the
> > > >> send switch to
> > > >> check idle current. It was a bit high, then OH NO! a

> > > >> spark from the
> > > >> tube section. I immediately turned off the unit, and
> > > >> pulled the
> > > >> cover. Couldn't really see any problem, so tried it
> > > >> again, with the
> > > >> same results. Couldn't tell exactly where the spark
> > > >> came from, but
> > > >> this time the IP pegged, and the cathode resistors
> > > >> are fried. could
> > > >> I have the exact same problem as Art?
> > > >>
> > > >> I ohmed out the tube pins, and nothing shows shorted
> > > >> that isn't
> > > >> supposed to be.
> > > >>
> > > >> I can't go any further until I get some new cathode
> > > >> resistors.
> > > >>
> > > >> Larry
> > > >> KC0SKX
> > > >>
> > > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > > >> Petteway"
> > > >> <wb4mnk@b...> wrote:
> > > >> >
> > > >> > Bill, The company I got these tubes from shipped
> > > >> them packed just
> > > >> like you are saying.
> > > >> >
> > > >> > 73
> > > >> > Art
> > > >> > WB4MNK
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
>
>
>
>
>
>
>
> SPONSORED LINKS
> Ham <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd
1LT5w> radio Craft <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
ly&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-

PXBTtOVJV48uzEVQ> hobby Hobby <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1j
uq9z5gSL9A5AR8aLNA> and craft supply
> Icom <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+s
upply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lC
JHFiWobT2w> ham radio Yaesu <http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+
supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-
vjTYO4qyD8w> ham radio
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group " TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com <mailto:TS-
520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

6395. Re: [TS-520_820_530_830] New Member/Hello Kenwood Group!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 16:52:36 UTC
From: Paul Manuel
Topic: 6393 Message: 6395

--- wb5dx <wb5dx@...> wrote:
I have been watching Ebay and the prices seem a bit high. Is that the
best source? ?

You could always get a lemon from any source, but generally speaking, a
better rig can be had for less money from qth.com, qrz.com, eham.net etc.
than ebay. Good 830s usually go for around $400.
73,
Paul K4PDM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6396. TS-530SP OUTPUT PROBLEM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 17:01:51 UTC
From: A. Newell
Topic: 6396 Message: 6396

when turned on (pwr&htr sw)it seems to take longer than it used to before i can get a meter reading for peaking drive. place in send, and adjust car has no affect. it's intermintant, and after a few min of messing with drive, it starts giving up some power. once i get it going it's fine on all retunes. does this sound like something going bad (6by7 or other)????

de kn4nn

6397. Re: R2-R5 Failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 17:06:26 UTC
From: Larry
Topic: 6308 Message: 6397

Most tube testers use very small Anode voltages. The tv7 I used
probably tests at less than 200 volts. http://www.jvgavila.com/tv7.htm
that's one reason the tube tester isn't the final answer.

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@i...> wrote:
>
> What anode voltage were the tubes tested at? From the data sheet,
the
> maximum anode voltage of the 6146W is 600V for standard commercial
service
> and 750V is permitted for Amateur service. The Kenwood rigs use
800V.
> Perhaps the tube tester used 600V.
>
> Hold off changing as long as possible!
>
> Richard G3OTK
>
> At 21:51 12/01/2006 +0000, you wrote:
> >Update: I found someone with a tube tester, and my tubes tested
good.
> >I installed new cathode resistors, and the old tubes, and all is
good
> >again.
> >So now I've got to work up the courage to try the new tubes in the
> >unit again.
> >I think I'll hold off for a while, at least until I get some more
> >cathode resistors.
> >
> >regards,
> >
> >KC0SKX
> >
> >
> >--- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-
sherwood@c...>
> >wrote:
> > >
> > >
> > > Good advice, but I have yet to find anyone that has a tube
tester
> > > that will test the 6146's.
> > >
> > > I'm still looking though.

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > > <pmarkavage@j...> wrote:
> > > >
> > > > I always test tubes that I buy from where-ever in a tube
tester
> > > before
> > > > sticking them in a rig. Saves the pain.
> > > >
> > > > Pete, wa2cwa
> > > >
> > > > On Tue, 10 Jan 2006 21:11:24 +0000 "kb2chy@f..."
> > > > <kb2chy@f...> writes:
> > > > It is a good practice, when getting tubes being shipped in a
> > > manner
> > > > other than their standup position, is to place them in the
> >sockets
> > > for
> > > > a bit with no power and let the elements settle in. Sometimes
the
> > > > filiments sag. Just a thought....Brad KB2CHY
> > > > Quoting Bill K0ZL <coorsbill@y...>:
> > > >
> > > > > Any sparking in the tubes, or spiking of plate current
> > > > > with new tubes, you should do just what you did, shut
> > > > > down immediately.
> > > > >
> > > > > I have seen tubes clear a short, about 50 percent of
> > > > > the time the arc once and that's it; but it's risky to
> > > > > try this.
> > > > >
> > > > > I guess the key, given the present state of supply of
> > > > > tubes, is to be able to fix whatever a bad tube might
> > > > > blow up in the rig and move on to another pair.
> > > > >
> > > > > bill
> > > > >
> > > > > --- Larry <l-sherwood@c...> wrote:
> > > > >
> > > > >> My tubes arrived packe the same way. Here's my
> > > > >> story:
> > > > >>
> > > > >> I received 2 new 6146W's from (a place in Nebraska)
> > > > >> tonight, and
> > > > >> stuck them in the 820S. let it warm up, then hit the
> > > > >> send switch to
> > > > >> check idle current. It was a bit high, then OH NO! a
> > > > >> spark from the
> > > > >> tube section. I immediately turned off the unit, and
> > > > >> pulled the

> > > > >> cover. Couldn't really see any problem, so tried it
> > > > >> again, with the
> > > > >> same results. Couldn't tell exactly where the spark
> > > > >> came from, but
> > > > >> this time the IP pegged, and the cathode resistors
> > > > >> are fried. could
> > > > >> I have the exact same problem as Art?
> > > > >>
> > > > >> I ohmed out the tube pins, and nothing shows shorted
> > > > >> that isn't
> > > > >> supposed to be.
> > > > >>
> > > > >> I can't go any further until I get some new cathode
> > > > >> resistors.
> > > > >>
> > > > >> Larry
> > > > >> KC0SKX
> > > > >>
> > > > >> --- In TS-520_820_530_830@yahoogroups.com, "Arthur
> > > > >> Petteway"
> > > > >> <wb4mnk@b...> wrote:
> > > > >> >
> > > > >> > Bill, The company I got these tubes from shipped
> > > > >> them packed just
> > > > >> like you are saying.
> > > > >> >
> > > > >> > 73
> > > > >> > Art
> > > > >> > WB4MNK
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > >SPONSORED LINKS
> > > ><http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd
1LT5w>Ham
> > >radio
> > ><http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
ly&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-
PXBTtOVJV48uzEVQ>Craft
> > >hobby

> ><http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1j
uq9z5gSL9A5AR8aLNA>Hobby
> >and craft supply
> ><http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+s
upply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lC
JHFiWobT2w>Icom
> >ham radio
> ><http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+
supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-
vjTYO4qyD8w>Yaesu
> >ham radio
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> > "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-
520_820_530_830" on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>

> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267
> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>
> Web site www.pipstechnology.com
>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain
information
> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation
to whom
> it is addressed. If you are not the intended recipient it is
strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>

6398. Re: [TS-520_820_530_830] TS-530SP OUTPUT PROBLEM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 17:36:02 UTC
From: Richard Harris
Topic: 6396 Message: 6398

A new driver tube (12BY7A) would be the place to start because it is easy
to change. Can you get ALC indication on all bands, CW, key down, driver
peaked, carrier level at max? On my 530SP I get at least half scale on
most bands with the level control set to half way.

I understand that the driver tube does not last as long as the PA tubes.

Richard G3OTK

At 17:01 13/01/2006 +0000, you wrote:
>when turned on (pwr&htr sw)it seems to take longer than it used to
>before i can get a meter reading for peaking drive. place in send, and
>adjust car has no affect. it's intermintant, and after a few min of
>messing with drive, it starts giving up some power. once i get it
>going it's fine on all retunes. does this sound like something going
>bad (6by7 or other)????
>
>de kn4nn
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,

Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6399. TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 19:31:26 UTC
From: KI4BUN / AAV4TP
Topic: 6399 Message: 6399

Greetings,

I have a TS-830s which has new power supply caps and new 6146W's installed.

The other night I was passing a piece of traffic on an Army MARS net and after about a minute of transmitting: my fuse blew. I was running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap Titan.

This has become a problem, as it isn't the first time. It only happens after a period of time with the rig keyed. It takes a minute or minute and a half of transmitting to blow the fuse. Short transmissions are fine.

I'm stumped. Any suggestions?

Thanks!

73

Chris AAV4TP/KI4BUN

6400. Re: [TS-520_820_530_830] New Member/Hello Kenwood Group!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 21:58:54 UTC
From: Kevin der Kinderen
Topic: 6393 Message: 6400

Hi Bill:

I'm an 830 owner and I have enjoyed this rig for all modes CW and Digital. I don't do much voice but have gotten great reports from it.

First... I'd not recommend a dead rig. Maybe a good rig now and a dead rig later for playing around with, spare parts or maybe even a backup.

I have had mixed luck on Ebay. I use QTH.com and eHam.net classifieds. I much prefer working with hams and even talking to them on the phone before finalizing the deal.

There are 830s and 530s out there that are in a good a shape as when they were new. I paid about $800 for my setup but that included the external VFO, tuner, speaker, monitor scope and phone patch. I believe you can search the classifieds mentioned above for old posts to get a feel for how much the sold for in the past.

Finally (I think I'm right about this), there is no difference between a "Gold Label" 830 and any other 830 yet some people mention it as a selling point. Look what the average price of an 830 (or 530) is going for and don't pay more for a gold edition.

I think you are in the right place with this group for good advice before and after the purchase. If I'm wrong on anything above, someone will chime in.

73,
Kevin - K4VD

On 1/13/06, wb5dx <wb5dx@...> wrote:
>
> Hello - I have just joined to learn a bit about the 830 and the 530. I don't yet own one. But, my plan is to get either model for a couple of reasons. I have been moderately active in recent years (after a long abscence) but have ony "operated" solid state equipment. I have also forgotten more than I acutally knew in part because I just can't work on my current equipment! I have always admired the 830/ 530 line, I thought I could aquire one to enjoy and to provide a way to bring back some of the lost knowledge as they seem to be a bit more service friendly (better than a 756Pro, etc).
>
> Which would be the better choice - the 830 or 530? I have been watching Ebay and the prices seem a bit high. Is that the best source? Should I get a dead one and learn more by rebuilding or get a reburbished one and maintain - or some where in between? Any known dealers to be concerned about (good/bad, etc). What are the price ranges that could be expected?
>
> There certainly seems to be an incredible wealth of knowledge on this forum (and

patience!), so I thought this would be a good place to start.
>
> Thanks for any help.
>
> 73,
>
> Bill

6401. Re: TS-530SP OUTPUT PROBLEM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-13 22:52:48 UTC
From: A. Newell
Topic: 6396 Message: 6401

no alc reading, or touchy reading until it warms up. band or car level does'nt matter. sometimes it shows half scale for a sec, then down to nothing for a sec, then after awhile it smooths out.

kn4nn

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris <rjharris@i...> wrote:
>
> A new driver tube (12BY7A) would be the place to start because it is easy
> to change. Can you get ALC indication on all bands, CW, key down, driver
> peaked, carrier level at max? On my 530SP I get at least half scale on
> most bands with the level control set to half way.
>
> I understand that the driver tube does not last as long as the PA tubes.
>
> Richard G3OTK
>
> At 17:01 13/01/2006 +0000, you wrote:
> >when turned on (pwr&htr sw)it seems to take longer than it used to
> >before i can get a meter reading for peaking drive. place in send, and
> >adjust car has no affect. it's intermintant, and after a few min of
> >messing with drive, it starts giving up some power. once i get it
> >going it's fine on all retunes. does this sound like something going
> >bad (6by7 or other)????
> >
> >de kn4nn
> >
> >
> >
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> > "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> > the web.

> > *
> > * To unsubscribe from this group, send an email to:
> > *
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>
> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267
> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>
> Web site www.pipstechnology.com
>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain
information
> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation
to whom
> it is addressed. If you are not the intended recipient it is
strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>

6402. TS-830S Low Plate Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 00:09:46 UTC
From: Mark
Topic: 6402 Message: 6402

Hello,

Last weekend, I was operating in the RTTY contest (running about 40 watt, in the last half hour of the contest, all of a sudden, I noticed that I could get no more than 10 watts SSB or 30 watts CW out of the Rig. I checked the cathode resistors and I am get 5.1ohms. I had a new pair of 6146W's and a 12BY7A that I put in the rig, but got no output what so ever. SG Switch is on. I put the old set of tubes back in, and I am also now getting no output on them. I have a 60ma idle current and I can run the grid bias all the way up through the bias knob on the back. HV is 800v+. In Tune mode, I have no plate current, and in CW mode, I get around 60ma, but no RF at all. Any suggestions?

Thanks,

Mark, K9MQ

6403. KB-1 vs the standard tuning knob

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 02:00:04 UTC
From: Bill
Topic: 6403 Message: 6403

Are there any visual differences between the KB-1 weighted tuning knob
and the standard? Is it really an advantage? Thanks - Bill

6404. TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 03:07:12 UTC
From: kc2mrq
Topic: 6404 Message: 6404

Hello all!

I joined this group after reading a recommendation in QRZ.COM that it was very knowlegable about Hybrid problems, I hope so!

After getting my Novice back in 1980, stationed on Guam (USN), I never used it. Many years later I decided to upgrade and get into Ham again, got my General and NEVER USED IT!

Not long ago, I started working for Harris RF, and it woke my interest again, so I jumped on E-Bay and bought one of the very same rigs that I was originally drooling over! What a find! Good thing I kept renewing my ticket during the past few decades.

Damn thing dont work....

Im sure you all have seen this before, but here are the symptoms:

Receive functions good.

Transmit: IP at 60 ma
HV at 800

When attempting to tune in TUN, no ALC when send depressed, no RF output. (Using SWR/PWR meter & 100W dummy load)

Reading all I could, I decided the 12by7a was a goner, ordered and replaced ALL tubes as the finals were S2001A's. Symptoms the same.

The ALC does not swing on any freq, but the instant the send key is released, it will swing a part ways up the scale and settle back to zero. The amount of Mic gain does seem to determine how far up it swings before settling down again. Mic/Car gain have been set about the 10 o'clock position.

It appears the finals are warming, and I get a nice 'ZAP' when grounding them out, so the are getting power. Once during playing, the rear final let out a small flash of light. Arcing? No where to dump the HV present? Hmmm.. you can tune a radio, but you cant tuna fish..

Hope someone can help. Looking forward to chatting, thanks!

Brian

6405. Re: [TS-520_820_530_830] TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 03:19:52 UTC
From: Bert Morton
Topic: 6404 Message: 6405

Is the screen grid switch on ?
----- Original Message -----
From: kc2mrq
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, January 13, 2006 10:07 PM
Subject: [TS-520_820_530_830] TS-520S

Hello all!

I joined this group after reading a recommendation in QRZ.COM that it
was very knowlegable about Hybrid problems, I hope so!

[Non-text portions of this message have been removed]

6406. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 03:30:29 UTC
From: kc2mrq
Topic: 6404 Message: 6406

Yes it is. I tried to eliminate the common sense problems and read
alot about troubleshooting for a week or so now, but have not seen
this particular problem mentioned, but thanks, yes I did check the
switch, hopefully it is functioning ok. The Unit is quite clean inside
with no signs of repair, I dont believe it has a whole lot of hourse
on it (Hence the s2001a finals found inside).

Brian

--- In TS-520_820_530_830@yahoogroups.com, "Bert Morton"
<hamradioguy@v...> wrote:
>
> Is the screen grid switch on ?
> ----- Original Message -----
> From: kc2mrq
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, January 13, 2006 10:07 PM
> Subject: [TS-520_820_530_830] TS-520S
>
>
> Hello all!
>
> I joined this group after reading a recommendation in QRZ.COM that it
> was very knowlegable about Hybrid problems, I hope so!
>
>
>
>
> [Non-text portions of this message have been removed]
>

6407. Re: TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 04:23:46 UTC
From: John Holden
Topic: 6399 Message: 6407

Hi Chris..and welcome aboard!

I know it could be something really basic, but it happened to me on my 520. Check the manual for the proper fuse VALUE. I ran into the problem of putting the 1/2 rated fuse in place of the proper one, before I realized that basic difference in 120 volt vs 240 volt operation. Made a ton of improvement, with a minimum of effort. And, I **KNOW** that I am not the first to run across this! :P

73s..and good luck!

John/N7IQV

--- In TS-520_820_530_830@yahoogroups.com, "KI4BUN / AAV4TP" <pcsutton@i...> wrote:
>
> Greetings,
>
> I have a TS-830s which has new power supply caps and new 6146W's
> installed.
>
> The other night I was passing a piece of traffic on an Army MARS net
> and after about a minute of transmitting: my fuse blew. I was
> running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap
> Titan.
>
> This has become a problem, as it isn't the first time. It only
> happens after a period of time with the rig keyed. It takes a minute
> or minute and a half of transmitting to blow the fuse. Short
> transmissions are fine.
>
> I'm stumped. Any suggestions?
>
> Thanks!
>
> 73
>
> Chris AAV4TP/KI4BUN
>

6408. interconnection TS-520 and soundcard

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 09:42:14 UTC
From: amater37
Topic: 6408 Message: 6408

Hi all,

I have been using my TS-520 and I am very happy with it. Now I would like to try PSK31 and another modes (SSTV...). How to interconnect my TS-520 and soundcard on my laptop? And can I use rear rounded 8pin REMOTE connector or only MIC in front of the panel? Great many thanks for advices.

Ivo

6409. Re: [TS-520_820_530_830] Re: TS-530SP OUTPUT PROBLEM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 14:01:29 UTC
From: Walt Breining
Topic: 6396 Message: 6409

I also suggest the 12 BY7, N9WB

----- Original Message -----
From: "A. Newell" <kn4nn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 5:52 PM
Subject: [TS-520_820_530_830] Re: TS-530SP OUTPUT PROBLEM

> no alc reading, or touchy reading until it warms up. band or car
> level does'nt matter. sometimes it shows half scale for a sec, then
> down to nothing for a sec, then after awhile it smooths out.
>
> kn4nn
>

6410. Re: [TS-520_820_530_830] TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 14:21:26 UTC
From: Walt Breining
Topic: 6404 Message: 6410

Turn the carrier control fully up. Place the meter switch on ALC. Key rig on tune and see if you can peak the drive for max on the ALC meter. If so then peak plate and load on your watt meter. Be sure that there is nothing plugged into the key jack in the back.

Some versions of these had some transverter switches on the back. be sure that they are working properly.

Turn the mike gain to 1 or 2 o'clock. Key up on SSB. Go ahhhh into the mike and peak the drive, plate, and load for max output on your watt meter if you can get an indication.

Vy 73, Walt N9WB

----- Original Message -----
From: "kc2mrq" <brian_w001@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 10:07 PM
Subject: [TS-520_820_530_830] TS-520S

> Hello all!
>
> I joined this group after reading a recommendation in QRZ.COM that it
> was very knowlegable about Hybrid problems, I hope so!
>
> After getting my Novice back in 1980, stationed on Guam (USN), I never
> used it. Many years later I decided to upgrade and get into Ham again,
> got my General and NEVER USED IT!
>
> Not long ago, I started working for Harris RF, and it woke my interest
> again, so I jumped on E-Bay and bought one of the very same rigs that
> I was originally drooling over! What a find! Good thing I kept
> renewing my ticket during the past few decades.
>
> Damn thing dont work....
>
> Im sure you all have seen this before, but here are the symptoms:
>
> Receive functions good.
>
> Transmit: IP at 60 ma
> HV at 800
>
> When attempting to tune in TUN, no ALC when send depressed, no RF
> output. (Using SWR/PWR meter & 100W dummy load)
>

> Reading all I could, I decided the 12by7a was a goner, ordered and
> replaced ALL tubes as the finals were S2001A's. Symptoms the same.
>
> The ALC does not swing on any freq, but the instant the send key is
> released, it will swing a part ways up the scale and settle back to
> zero. The amount of Mic gain does seem to determine how far up it
> swings before settling down again. Mic/Car gain have been set about
> the 10 o'clock position.
>
> It appears the finals are warming, and I get a nice 'ZAP' when
> grounding them out, so the are getting power. Once during playing, the
> rear final let out a small flash of light. Arcing? No where to dump
> the HV present? Hmmm.. you can tune a radio, but you cant tuna fish..
>
> Hope someone can help. Looking forward to chatting, thanks!
>
> Brian
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6411. Re: [TS-520_820_530_830] Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 14:25:06 UTC
From: Walt Breining
Topic: 6404 Message: 6411

If the rig is getting 60 ma idle current, the screen switch is on as it should be. N9WB
----- Original Message -----
From: "kc2mrq" <brian_w001@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 10:30 PM
Subject: [TS-520_820_530_830] Re: TS-520S

> Yes it is. I tried to eliminate the common sense problems and read
> alot about troubleshooting for a week or so now, but have not seen
> this particular problem mentioned, but thanks, yes I did check the
> switch, hopefully it is functioning ok. The Unit is quite clean inside
> with no signs of repair, I dont believe it has a whole lot of hourse
> on it (Hence the s2001a finals found inside).
>
> Brian

6412. Re: [TS-520_820_530_830] New Member/Hello Kenwood Group!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 14:47:53 UTC
From: Walt Breining
Topic: 6393 Message: 6412

These are both fine rigs. As with any rig, these have some weak spots. They have band switch problems. There is a coupling shaft in the back that breaks and is fairly easy to replace. If your coupling is good, lubricating the bushings on the part behind it will reduce stress. Use a drop of Mobile 1. as recommended by K0ZL. Lubricate the other bushings while you are at it.

The other problem is that bandswitch wafer contacts are riveted to terminals on the bandswitch wafers. In time expansion and contraction makes these connections intermittent. The solution is to solder the contact, terminal and rivet together on each contact. While this takes patience it is doable and will result in having one of the finest rigs ever made.

The 830 is the best of the two. It is one of the finest transceivers ever made except for some of the most expensive modern digital surface mount stuff. It's receiver is superior however the 530 is also quite good.

Vy 73, Walt N9WB

----- Original Message -----
From: "wb5dx" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 11:26 AM
Subject: [TS-520_820_530_830] New Member/Hello Kenwood Group!

>
> Hello - I have just joined to learn a bit about the 830 and the 530. I don't yet own one. But, my plan is to get either model for a couple of reasons. I have been moderately active in recent years (after a long abscence) but have ony "operated" solid state equipment. I have also forgotten more than I acutally knew in part because I just can't work on my current equipment! I have always admired the 830/ 530 line, I thought I could aquire one to enjoy and to provide a way to bring back some of the lost knowledge as they seem to be a bit more service friendly (better than a 756Pro, etc).
>
> Which would be the better choice - the 830 or 530? I have been watching Ebay and the prices seem a bit high. Is that the best source? Should I get a dead one and learn more by rebuilding or get a reburbished one and maintain - or some where in between? Any known dealers to be concerned about (good/bad, etc). What are the price ranges that could be expected?
>
> There certainly seems to be an incredible wealth of knowledge on this forum (and patience!), so I thought this would be a good place to start.
>
> Thanks for any help.

>
> 73,
>
> Bill
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6413. Re: [TS-520_820_530_830] TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 15:01:09 UTC
From: Walt Breining
Topic: 6399 Message: 6413

I assume that you were running SSB. for 117 v operation, the fuse should be a 6a fast blow type. For 234 volt operation it should be 4 amp. If you are running on 234 V please note that the rig is set up for 220 not 234 and some taps need to be changed or it may take off and blow fuses.

Be sure that your idle current is no more than 60 ma. Be sure that the plate tune is peaked for maximum output or minimum plate current.

I assume that you are running SSB. For RTTY output should be no more than 20 watts because RTTY is 100% duty cycle. The RTTY output can be reduced by reducing the mike gain.

It is also possible that your final tubes are arcing over. There seems to be a lot of this going around lately with 6146W's.

You might also check your neutralization although I doubt if this is likely to be the problem on 80 meters.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "KI4BUN / AAV4TP" <pcsutton@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 2:31 PM
Subject: [TS-520_820_530_830] TS830s Duty cycle problems

> Greetings,
>
> I have a TS-830s which has new power supply caps and new 6146W's
> installed.
>
> The other night I was passing a piece of traffic on an Army MARS net
> and after about a minute of transmitting: my fuse blew. I was
> running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap
> Titan.
>
> This has become a problem, as it isn't the first time. It only
> happens after a period of time with the rig keyed. It takes a minute
> or minute and a half of transmitting to blow the fuse. Short
> transmissions are fine.
>
> I'm stumped. Any suggestions?
>
> Thanks!
>
> 73

>
> Chris AAV4TP/KI4BUN
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6414. Re: [TS-520_820_530_830] KB-1 vs the standard tuning knob

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 15:07:20 UTC
From: Walt Breining
Topic: 6403 Message: 6414

Depends upon what rig. I got one for my 820 and it looked funny. I liked the feel though. It looks better on the 530/830. It got damaged, "long story" and I am now using the standard chrome front knob.

I understand the KB-1 is going for the price of a rig these days!

I can't help but wonder if fishing weights could not be glued inside the basic knob evenly near the outside. Maybe use hot glue so it can be removed if the project became a Murphy's Law special.

Walt N9WB

----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 9:00 PM
Subject: [TS-520_820_530_830] KB-1 vs the standard tuning knob

> Are there any visual differences between the KB-1 weighted tuning knob
> and the standard? Is it really an advantage? Thanks - Bill
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6415. Re: New TS-830S owner with a receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 16:44:43 UTC
From: w3iz
Topic: 6374 Message: 6415

Hi All.

Did I miss the outcome of this problem? I hope it was just the 25kHz calibration oscillator.

73, Norm -- W3IZ

-- In TS-520_820_530_830@yahoogroups.com, "danceswithtransistors" <danceswithtransistors@y...> wrote:
>
> Hi! I just bought a TS-830S on eBay. I got it for a discount because
> of a receive problem. I measured 100 watts into a dummy load in CW
> mode. That seems to be a typical output. So, I guess the transmit
> part works.
>
> The receiver section is seriously hosed, though. It makes this God-
> awful noise every 25 kHz or so. The noise changes pitch like a slide
> whistle as you tune. There is a faint echo of this noise midway
> between the main occurances.
>
> Does anyone have an idea of what the problem is?
>
> I want to fix this myself. I haven't done anything like this in
> twenty years. My neighbor has a garage full of test equipment. I
> don't know how it will do at RF frequencies, though. The o-scope
> maxes out at 5 Mhz or so. The hardware guys at work said that I could
> borrow test equipment on the weekend if I want to.
>
> Any help in getting me started would be greatly appreciated.
>
> Thanks.
>
> Mike
>

6416. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 18:42:28 UTC
From: kc2mrq
Topic: 6404 Message: 6416

Gave it a try again, but no ALC deflection until send released as before. So far, I have checked all switches and variable resistors associated with tuning. Checked the cathode resistors and compared Q10 to another transistor of the same type, all seem ok. Ive carefully inspected all boards and connections and the unit seems very sound and no overheated resistors. When I got it, the bottom side standoff was stripped, and I had to carefully bend the bottom cover to get a wrench in there to get the bottom center screw out, I dont think anyone has opened the bottom up in a LONNNGG time.

I dont know what to check next im afraid, information for troubleshooting is limited on the internet and Ive ordered the schematics for it. Paying someone to fix it would cost as much as I paid for the unit I bet, ouch, cant afford that...Id rather save up and spend the money on a second, quaranteed operational unit and just compare readings between the two units.

Didnt mean to write a novel, im a fast typer :)

thanks Walt

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> Turn the carrier control fully up. Place the meter switch on ALC. Key rig
> on tune and see if you can peak the drive for max on the ALC meter. If so
> then peak plate and load on your watt meter. Be sure that there is nothing
> plugged into the key jack in the back.
>
> Some versions of these had some transverter switches on the back. be sure
> that they are working properly.
>
> ----- Original Message -----
> From: "kc2mrq" <brian_w001@h...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 13, 2006 10:07 PM
> Subject: [TS-520_820_530_830] TS-520S
>
>
> > Im sure you all have seen this before, but here are the symptoms:
> >
> > Receive functions good.

> >
> > Transmit: IP at 60 ma
> > HV at 800
> >
> > When attempting to tune in TUN, no ALC when send depressed, no RF
> > output. (Using SWR/PWR meter & 100W dummy load)
> >
> > Reading all I could, I decided the 12by7a was a goner, ordered and
> > replaced ALL tubes as the finals were S2001A's. Symptoms the same.
> >
> > The ALC does not swing on any freq, but the instant the send key is
> > released, it will swing a part ways up the scale and settle back to
> > zero. The amount of Mic gain does seem to determine how far up it
> > swings before settling down again. Mic/Car gain have been set about
> > the 10 o'clock position.
> >
> > It appears the finals are warming, and I get a nice 'ZAP' when
> > grounding them out, so the are getting power. Once during playing, the
> > rear final let out a small flash of light. Arcing? No where to dump
> > the HV present? Hmmm.. you can tune a radio, but you cant tuna fish..
> >
> > Hope someone can help. Looking forward to chatting, thanks!
> >
> > Brian
> >
> >

6417. Re: [TS-520_820_530_830] Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 19:13:25 UTC
From: George W7ZVD
Topic: 6404 Message: 6417

Sometimes we tend to overlook the most simple things... have you checked the mic switch?
George w7zvd
----- Original Message -----
From: kc2mrq
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, January 14, 2006 10:42
Subject: [TS-520_820_530_830] Re: TS-520S

Gave it a try again, but no ALC deflection until send released as before.
So far, I have checked all switches and variable resistors associated
with tuning. Checked the cathode resistors and compared Q10 to another
transistor of the same type, all seem ok. Ive carefully inspected all
boards and connections and the unit seems very sound and no overheated
resistors. When I got it, the bottom side standoff was stripped, and I
had to carefully bend the bottom cover to get a wrench in there to get
the bottom center screw out, I dont think anyone has opened the bottom
up in a LONNNGG time.

I dont know what to check next im afraid, information for
troubleshooting is limited on the internet and Ive ordered the
schematics for it. Paying someone to fix it would cost as much as I
paid for the unit I bet, ouch, cant afford that...Id rather save up
and spend the money on a second, quaranteed operational unit and just
compare readings between the two units.

Didnt mean to write a novel, im a fast typer :)

thanks Walt

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...>
wrote:
>
> Turn the carrier control fully up. Place the meter switch on ALC.
Key rig
> on tune and see if you can peak the drive for max on the ALC meter.
If so
> then peak plate and load on your watt meter. Be sure that there is
nothing
> plugged into the key jack in the back.
>
> Some versions of these had some transverter switches on the back. be
sure
> that they are working properly.
>
> ----- Original Message -----
> From: "kc2mrq" <brian_w001@h...>

> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 13, 2006 10:07 PM
> Subject: [TS-520_820_530_830] TS-520S
>
>
> > Im sure you all have seen this before, but here are the symptoms:
> >
> > Receive functions good.
> >
> > Transmit: IP at 60 ma
> > HV at 800
> >
> > When attempting to tune in TUN, no ALC when send depressed, no RF
> > output. (Using SWR/PWR meter & 100W dummy load)
> >
> > Reading all I could, I decided the 12by7a was a goner, ordered and
> > replaced ALL tubes as the finals were S2001A's. Symptoms the same.
> >
> > The ALC does not swing on any freq, but the instant the send key is
> > released, it will swing a part ways up the scale and settle back to
> > zero. The amount of Mic gain does seem to determine how far up it
> > swings before settling down again. Mic/Car gain have been set about
> > the 10 o'clock position.
> >
> > It appears the finals are warming, and I get a nice 'ZAP' when
> > grounding them out, so the are getting power. Once during playing, the
> > rear final let out a small flash of light. Arcing? No where to dump
> > the HV present? Hmmm.. you can tune a radio, but you cant tuna fish..
> >
> > Hope someone can help. Looking forward to chatting, thanks!
> >
> > Brian
> >
> >

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6418. 820VFO Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 21:40:03 UTC
From: amfone2000
Topic: 6418 Message: 6418

Wonder if anyone has one of these to connect my TS820S to my
VFO 820?
would like to purchase .
thanks tim
73

6419. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-14 21:49:22 UTC
From: kc2mrq
Topic: 6404 Message: 6419

Ok, rechecked all front/back switches, set up per operating manual and tried again. No ALC. turned up the CAR and hit send, saw a arc from finals area. Checked finals and turned on power again, no glow from rear tube, but front tube glowing very hot? Shut down, let cool, put old tube back in rear slot, turned on. No heater glow from front tube, old tube heating as normal. No ALC. Looks like I blew both the new 6146W tubes now and still have no clue to problem.

I cant afford this...time to cut my loses and sell on E-bay cheap. But I will let buyer know and not screw THEM over.

Thanks for the help, back to computer games.

--- In TS-520_820_530_830@...m, "George W7ZVD" <w7zvd@a...> wrote:
>
> Sometimes we tend to overlook the most simple things... have you checked the mic switch?
> George w7zvd
> ----- Original Message -----
> From: kc2mrq
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 14, 2006 10:42
> Subject: [TS-520_820_530_830] Re: TS-520S
>
>
> Gave it a try again, but no ALC deflection until send released as before.
> So far, I have checked all switches and variable resistors associated
> with tuning. Checked the cathode resistors and compared Q10 to another
> transistor of the same type, all seem ok. Ive carefully inspected all
> boards and connections and the unit seems very sound and no overheated
> resistors. When I got it, the bottom side standoff was stripped, and I
> had to carefully bend the bottom cover to get a wrench in there to get
> the bottom center screw out, I dont think anyone has opened the bottom
> up in a LONNNGG time.
>
> I dont know what to check next im afraid, information for
> troubleshooting is limited on the internet and Ive ordered the
> schematics for it. Paying someone to fix it would cost as much as I
> paid for the unit I bet, ouch, cant afford that...Id rather save up
> and spend the money on a second, quaranteed operational unit and just
> compare readings between the two units.
>
> Didnt mean to write a novel, im a fast typer :)
>

> thanks Walt
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...>
> wrote:
> >
> > Turn the carrier control fully up. Place the meter switch on ALC.
> Key rig
> > on tune and see if you can peak the drive for max on the ALC meter.
> If so
> > then peak plate and load on your watt meter. Be sure that there is
> nothing
> > plugged into the key jack in the back.
> >
> > Some versions of these had some transverter switches on the back. be
> sure
> > that they are working properly.
> >
> > ----- Original Message -----
> > From: "kc2mrq" <brian_w001@h...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, January 13, 2006 10:07 PM
> > Subject: [TS-520_820_530_830] TS-520S
> >
> >
> > > Im sure you all have seen this before, but here are the symptoms:
> > >
> > > Receive functions good.
> > >
> > > Transmit: IP at 60 ma
> > > HV at 800
> > >
> > > When attempting to tune in TUN, no ALC when send depressed, no RF
> > > output. (Using SWR/PWR meter & 100W dummy load)
> > >
> > > Reading all I could, I decided the 12by7a was a goner, ordered and
> > > replaced ALL tubes as the finals were S2001A's. Symptoms the
same.
> > >
> > > The ALC does not swing on any freq, but the instant the send
key is
> > > released, it will swing a part ways up the scale and settle
back to
> > > zero. The amount of Mic gain does seem to determine how far up it
> > > swings before settling down again. Mic/Car gain have been set
about

> > > the 10 o'clock position.
> > >
> > > It appears the finals are warming, and I get a nice 'ZAP' when
> > > grounding them out, so the are getting power. Once during
playing, the
> > > rear final let out a small flash of light. Arcing? No where to
dump
> > > the HV present? Hmmm.. you can tune a radio, but you cant
tuna fish..
> > >
> > > Hope someone can help. Looking forward to chatting, thanks!
> > >
> > > Brian
> > >
> > >
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

6420. Re: [TS-520_820_530_830] KB-1 vs the standard tuning knob

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 01:30:49 UTC
From: Peter A Markavage
Topic: 6403 Message: 6420

I filled my original 830 knob 15 to 20 years ago with lead shot. Glued it in place with epoxy. Kept the openings clear to get at the set screws. I think I used a Q-tip stick. After the epoxy had hardened, removed the stick. Gives a nice feel when tuning the rig. Can't remember where I got the lead shot from.

Pete, wa2cwa

On Sat, 14 Jan 2006 10:07:20 -0500 "Walt Breining" <n9wb@...>
writes:
Depends upon what rig. I got one for my 820 and it looked funny. I liked
the feel though. It looks better on the 530/830. It got damaged, "long story" and I am now using the standard chrome front knob.

I understand the KB-1 is going for the price of a rig these days!

I can't help but wonder if fishing weights could not be glued inside the basic knob evenly near the outside. Maybe use hot glue so it can be removed
if the project became a Murphy's Law special.

Walt N9WB

----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 13, 2006 9:00 PM
Subject: [TS-520_820_530_830] KB-1 vs the standard tuning knob

> Are there any visual differences between the KB-1 weighted tuning knob
> and the standard? Is it really an advantage? Thanks - Bill
>

[Non-text portions of this message have been removed]

6421. RE: [TS-520_820_530_830] Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 01:48:58 UTC
From: Hauser, Ron M.
Topic: 6404 Message: 6421

I recommend posting it here first if you want to sell it... (yeah, like I need another old kenwood to tinker with -- but there are probably other folks who are interested).

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of kc2mrq
Sent: Saturday, January 14, 2006 3:49 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520S

Ok, rechecked all front/back switches, set up per operating manual and tried again. No ALC. turned up the CAR and hit send, saw a arc from finals area. Checked finals and turned on power again, no glow from rear tube, but front tube glowing very hot? Shut down, let cool, put old tube back in rear slot, turned on. No heater glow from front tube, old tube heating as normal. No ALC. Looks like I blew both the new 6146W tubes now and still have no clue to problem.

I cant afford this...time to cut my loses and sell on E-bay cheap. But I will let buyer know and not screw THEM over.

Thanks for the help, back to computer games.

--- In TS-520_820_530_830@yahoogroups.com, "George W7ZVD" <w7zvd@a...>
wrote:
>
> Sometimes we tend to overlook the most simple things... have you
checked the mic switch?
> George w7zvd
> ----- Original Message -----
> From: kc2mrq
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, January 14, 2006 10:42
> Subject: [TS-520_820_530_830] Re: TS-520S
>
>
> Gave it a try again, but no ALC deflection until send released as
before.
> So far, I have checked all switches and variable resistors
associated
> with tuning. Checked the cathode resistors and compared Q10 to

another
> transistor of the same type, all seem ok. Ive carefully inspected
all
> boards and connections and the unit seems very sound and no
overheated
> resistors. When I got it, the bottom side standoff was stripped, and
I
> had to carefully bend the bottom cover to get a wrench in there to
get
> the bottom center screw out, I dont think anyone has opened the
bottom
> up in a LONNNGG time.
>
> I dont know what to check next im afraid, information for
> troubleshooting is limited on the internet and Ive ordered the
> schematics for it. Paying someone to fix it would cost as much as I
> paid for the unit I bet, ouch, cant afford that...Id rather save up
> and spend the money on a second, quaranteed operational unit and
just
> compare readings between the two units.
>
> Didnt mean to write a novel, im a fast typer :)
>
> thanks Walt
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@n...>
> wrote:
> >
> > Turn the carrier control fully up. Place the meter switch on ALC.
> Key rig
> > on tune and see if you can peak the drive for max on the ALC
meter.
> If so
> > then peak plate and load on your watt meter. Be sure that there is
> nothing
> > plugged into the key jack in the back.
> >
> > Some versions of these had some transverter switches on the back.
be
> sure
> > that they are working properly.
> >
> > ----- Original Message -----
> > From: "kc2mrq" <brian_w001@h...>

> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, January 13, 2006 10:07 PM
> > Subject: [TS-520_820_530_830] TS-520S
> >
> >
> > > Im sure you all have seen this before, but here are the
symptoms:
> > >
> > > Receive functions good.
> > >
> > > Transmit: IP at 60 ma
> > > HV at 800
> > >
> > > When attempting to tune in TUN, no ALC when send depressed, no
RF
> > > output. (Using SWR/PWR meter & 100W dummy load)
> > >
> > > Reading all I could, I decided the 12by7a was a goner, ordered
and
> > > replaced ALL tubes as the finals were S2001A's. Symptoms the
same.
> > >
> > > The ALC does not swing on any freq, but the instant the send
key is
> > > released, it will swing a part ways up the scale and settle
back to
> > > zero. The amount of Mic gain does seem to determine how far up
it
> > > swings before settling down again. Mic/Car gain have been set
about
> > > the 10 o'clock position.
> > >
> > > It appears the finals are warming, and I get a nice 'ZAP' when
> > > grounding them out, so the are getting power. Once during
playing, the
> > > rear final let out a small flash of light. Arcing? No where to
dump
> > > the HV present? Hmmm.. you can tune a radio, but you cant
tuna fish..
> > >
> > > Hope someone can help. Looking forward to chatting, thanks!
> > >
> > > Brian
> > >
> > >
>
>
>
>
>

>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

6422. Praise for the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 01:52:29 UTC
From: Hauser, Ron M.
Topic: 6422 Message: 6422

Well, I have a TS-830 that I have been fixing up, and I have been impressed with it. Today though, I spent some time on the NA QSO party, and I am realizing just how really fine this radio is! The CW filter plus the variable passband tuning make tuning around on a crowded band a complete breeze.

Now I just have to fix that S meter and the wierdness on 30m. :)

73
--Ron
KC0TLN

6423. TS-530S, receive poor, no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 03:56:27 UTC
From: carboyhat@juno.com
Topic: 6423 Message: 6423

The receiver is really weak sounding. I have to hold the top cover with the speaker up to my ear to hear anything, even with the audio gain up all the way. The RF gain control does not affect signal strength, however the attenuator will reduce the signal. The drive control does peak signals.

The transmitter has 60 ma. resting plate current, almost 900 volts on the HV scale, but in TUNE, I get no ALC reading. All three tubes light.

I am trying to find something common to both of these problems. Looking at the schematic, if L41 were shorted (primary to secondary from a nearby lightning strike) that would reduce the sensitivity but not affect transmit. I will take the driver tube out of a working 830S and try that for the transmitter. Maybe the rig has several unrelated problem areas that happened to manifest themselves at the same time.

The problems exhibited themselves after the rig was turned on. It worked fine the week before.

Anyone been here before?

Bob, AA4AI

6424. Hand mic for an 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 06:46:18 UTC
From: Bill
Topic: 6424 Message: 6424

Has anyone seen an MC30 or 35 for sale lately. I may be obtaining an 830 soon and would like to have a hand mic when it arrives. Thanks - Bill

6425. Re: Hand mic for an 830/MC-42

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 12:34:25 UTC
From: Bill
Topic: 6424 Message: 6425

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...> wrote:
>
> Has anyone seen an MC30 or 35 for sale lately. I may be obtaining an
> 830 soon and would like to have a hand mic when it arrives. Thanks -
> Bill
>
Also, I may have possibility of obtaining an MC42s. Does anyone know
the wiring to covert the 8 pin to the required 4 pin? Thanks - Bill

6426. Re: [TS-520_820_530_830] Re: Hand mic for an 830/MC-42

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 13:01:01 UTC
From: Ken Winterling
Topic: 6424 Message: 6426

Bill,

Here is the Kenwood 8 pin mic plug wiring:
1- mic hi
2- PTT
3- frequency down
4- frequency up
5- +8VDC
6- n/c
7- mic lo (shield)
8- PTT ground

Here is the Kenwood 4 pin mic plug wiring:
1- mic hi
2- PTT
3- PTT ground
4- mic lo (shield)

Good luck with the '830! Now start looking for the VFO-230. :)

Ken, WA2LBI

On 1/15/06, Bill <wb5dx@...> wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...> wrote:
> >
> > Has anyone seen an MC30 or 35 for sale lately. I may be obtaining an
> > 830 soon and would like to have a hand mic when it arrives. Thanks -
> > Bill
> >
> Also, I may have possibility of obtaining an MC42s. Does anyone know
> the wiring to covert the 8 pin to the required 4 pin? Thanks - Bill
>

6427. Re: TS-530S, receive poor, no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 15:24:40 UTC
From: lajes67
Topic: 6423 Message: 6427

--- In TS-520_820_530_830@yahoogroups.com, carboyhat@j... wrote:
>
>
> The receiver is really weak sounding. I have to hold the top cover
with
> the speaker up to my ear to hear anything, even with the audio
gain up
> all the way. The RF gain control does not affect signal strength,
> however the attenuator will reduce the signal. The drive control
does
> peak signals.
>
> The transmitter has 60 ma. resting plate current, almost 900 volts
on the
> HV scale, but in TUNE, I get no ALC reading. All three tubes
light.
>
> I am trying to find something common to both of these problems.
Looking
> at the schematic, if L41 were shorted (primary to secondary from a
nearby
> lightning strike) that would reduce the sensitivity but not affect
> transmit. I will take the driver tube out of a working 830S and
try that
> for the transmitter. Maybe the rig has several unrelated problem
areas
> that happened to manifest themselves at the same time.
>
> The problems exhibited themselves after the rig was turned on. It
> worked fine the week before.
>
> Anyone been here before?
>
> Bob, AA4AI
>
Morning Bob;
I had the same thing with my 530S, one day it worked fine, the
next there was hardly any audio. Funny you should mention the
lightning strike, here in Long Island, this time of the year, that
was unheard of, that has since changed, but between the time the
radio worked and when it lost audio we had lightning, not near by
that I know of. Same symptoms, tuned up just fine, the meter worked
fine in the tune up,regular power out but no deflection on the meter
in receive at all. The only time I saw movement was when my next
door neighbor came on the air and even then the audio wasn't that

great. I took a quick look but decided to send the radio out for service, I've had it since it first came out, sorry I can't offer more. John K2IZ

6428. Re: TS-530S, receive poor, no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 16:46:41 UTC
From: Larry
Topic: 6423 Message: 6428

--- In TS-520_820_530_830@yahoogroups.com, carboyhat@j... wrote:
>
>
> The receiver is really weak sounding. I have to hold the top cover
with
> the speaker up to my ear to hear anything, even with the audio gain
up
> all the way. The RF gain control does not affect signal strength,
> however the attenuator will reduce the signal. The drive control does
> peak signals...
>
> Bob, AA4AI
>
I'd check the power supplies first. make sure all the voltages are
within specs, not just the HV.

6429. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 16:58:09 UTC
From: Larry
Topic: 6404 Message: 6429

--- In TS-520_820_530_830@yahoogroups.com, "kc2mrq"
<brian_w001@h...> wrote:
>
> Hello all!
>
> I joined this group after reading a recommendation in QRZ.COM that
it
> was very knowlegable about Hybrid problems, I hope so!
>
> Reading all I could, I decided the 12by7a was a goner, ordered and
> replaced ALL tubes as the finals were S2001A's. Symptoms the
same.
>
> The ALC does not swing on any freq, but the instant the send key is
> released, it will swing a part ways up the scale and settle back to
> zero. The amount of Mic gain does seem to determine how far up it
> swings before settling down again. Mic/Car gain have been set about
> the 10 o'clock position.
> rear final let out a small flash of light. Arcing? No where to dump
> the HV present? Hmmm.. you can tune a radio, but you cant tuna
fish..
>
> Hope someone can help. Looking forward to chatting, thanks!
>
> Brian
>
I'm not sure what your problem is. Do you have access to an
Oscilloscope? The next step would be to check for RF drive, all the
way through the RF path.

I do have one question, were the new tubes, particularly the one
that arced, 6146W's?

6430. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-15 19:13:04 UTC
From: kc2mrq
Topic: 6404 Message: 6430

--- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "kc2mrq"
> <brian_w001@h...> wrote:
> >
> > Hello all!
> >
> > I joined this group after reading a recommendation in QRZ.COM that
> it
> > was very knowlegable about Hybrid problems, I hope so!
> >
> > Reading all I could, I decided the 12by7a was a goner, ordered and
> > replaced ALL tubes as the finals were S2001A's. Symptoms the
> same.
> >
> > The ALC does not swing on any freq, but the instant the send key is
> > released, it will swing a part ways up the scale and settle back to
> > zero. The amount of Mic gain does seem to determine how far up it
> > swings before settling down again. Mic/Car gain have been set about
> > the 10 o'clock position.
> > rear final let out a small flash of light. Arcing? No where to dump
> > the HV present? Hmmm.. you can tune a radio, but you cant tuna
> fish..
> >
> > Hope someone can help. Looking forward to chatting, thanks!
> >
> > Brian
> >
> I'm not sure what your problem is. Do you have access to an
> Oscilloscope? The next step would be to check for RF drive, all the
> way through the RF path.
>
> I do have one question, were the new tubes, particularly the one
> that arced, 6146W's?

Larry,

No o'scope at home, just a DMM, just started trying to put a shack
together with limited funds.

To recap:

From the original symptoms, I guessed the driver was bad, so ordered
and replaced all tubes, 12by7a and replaced finals with 6146w's as I
read they were more robust than standards and read all tubes should be

replaced at once.

After the rear tube arced, I shut it down, and wrote an email here. Later I tried again with MIC turned up as mentioned in a response, but rear tube was dead, and front tube began to glow red. Shut it down. Put old tube (s2001a) back in rear, powered up, and old tube heated, but new tube now dead in front.

I think I shall put this rig away until I can either buy a working rig to compare it to for troubleshooting or find someone in the local area willing to work on it for a reasonable price. Im new to the region and dont know anyone here yet. (Rochester NY area)

I have schematics (User manual) on order, and I will keep my eyes open for a older o'scope, sig gen and whatnot...but all this will take a while to do. Guess I just have to be patient!

Thanks Larry.

6431. Hi from Jim ve4ags

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 01:00:22 UTC
From: ve4ags
Topic: 6431 Message: 6431

Just wanted to say hello as I am a new member. I live in the country about 1/2 hour east of Winnipeg Mb. I have a TS-530 SP, Twins R&T599D,TS-140(new to me) and 3 TM-271A's. It is I think fair to say I like Kenwood. I am active primarily on 80m and 2 meters but I am lookinmg forward to getting mobile once spring comes and I can get the "new 140" going in the car. One thing I am looking for is a SP-230 if anyone has one or knows of someone with one that they are parting with.

Thats about all I know.

73 Jim ve4ags

6432. R: [POSSIBILE SPAM][TS-520_820_530_830] Hi from Jim ve4ags

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 09:17:10 UTC
From: P. Coppin
Topic: 6431 Message: 6432

Welcome aboard Jim.

I am Paul from Italy.

I have TS-940, FT-902, ICR-70 but I am so happy to have the TS-830 bouht one month ago.

73 i8ixo

_____

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di ve4ags
Inviato: lunedì 16 gennaio 2006 2.00
A: TS-520_820_530_830@yahoogroups.com
Oggetto: [POSSIBILE SPAM][TS-520_820_530_830] Hi from Jim ve4ags

Just wanted to say hello as I am a new member. I live in the country
about 1/2 hour east of Winnipeg Mb. I have a TS-530 SP, Twins
R&T599D,TS-140(new to me) and 3 TM-271A's. It is I think fair to say I
like Kenwood. I am active primarily on 80m and 2 meters but I am
lookinmg forward to getting mobile once spring comes and I can get
the "new 140" going in the car. One thing I am looking for is a
SP-230 if anyone has one or knows of someone with one that they are
parting with.

Thats about all I know.

73 Jim ve4ags

[Non-text portions of this message have been removed]

6433. Re: TS-530SP OUTPUT PROBLEM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 14:12:54 UTC
From: A. Newell
Topic: 6396 Message: 6433

thanks,,,,i think that was it!!

de kn4nn

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...>
wrote:
>
> I also suggest the 12 BY7, N9WB
>
> ----- Original Message -----
> From: "A. Newell" <kn4nn@y...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 13, 2006 5:52 PM
> Subject: [TS-520_820_530_830] Re: TS-530SP OUTPUT PROBLEM
>
>
> > no alc reading, or touchy reading until it warms up. band or car
> > level does'nt matter. sometimes it shows half scale for a sec, then
> > down to nothing for a sec, then after awhile it smooths out.
> >
> > kn4nn
> >
>

6434. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 21:58:46 UTC
From: Larry
Topic: 6404 Message: 6434

--- In TS-520_820_530_830@yahoogroups.com, "kc2mrq" <brian_w001@h...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "kc2mrq"
> > <brian_w001@h...> wrote:
> > >
> > > Hello all!
> > >
> > > I joined this group after reading a recommendation in QRZ.COM
that
> > it
> > > was very knowlegable about Hybrid problems, I hope so!
> > >
> > > Reading all I could, I decided the 12by7a was a goner, ordered
and
> > > replaced ALL tubes as the finals were S2001A's. Symptoms the
> > same.
> > >
> > > The ALC does not swing on any freq, but the instant the send
key is
> > > released, it will swing a part ways up the scale and settle
back to
> > > zero. The amount of Mic gain does seem to determine how far up
it
> > > swings before settling down again. Mic/Car gain have been set
about
> > > the 10 o'clock position.
> > > rear final let out a small flash of light. Arcing? No where to
dump
> > > the HV present? Hmmm.. you can tune a radio, but you cant tuna
> > fish..
> > >
> > > Hope someone can help. Looking forward to chatting, thanks!
> > >
> > > Brian
> > >
> > I'm not sure what your problem is. Do you have access to an
> > Oscilloscope? The next step would be to check for RF drive, all
the
> > way through the RF path.
> >
> > I do have one question, were the new tubes, particularly the one

> > that arced, 6146W's?
>
> Larry,
>
> No o'scope at home, just a DMM, just started trying to put a shack
> together with limited funds.
>
> To recap:
>
> From the original symptoms, I guessed the driver was bad, so ordered
> and replaced all tubes, 12by7a and replaced finals with 6146w's as I
> read they were more robust than standards and read all tubes should
be
> replaced at once.
>
> After the rear tube arced, I shut it down, and wrote an email here.
> Later I tried again with MIC turned up as mentioned in a response,
but
> rear tube was dead, and front tube began to glow red. Shut it down.
> Put old tube (s2001a) back in rear, powered up, and old tube heated,
> but new tube now dead in front.
>
>>
> Thanks Larry.
>
Part of your problem may be that you are dealing with some bad NOS
6146W's. Two of us on this releflector have purchased the 6146w's
from a place in Nebraska, and we both had arcing problems.

6435. What is the best choice

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 23:14:06 UTC
From: pchapman9202003
Topic: 6435 Message: 6435

So as a concensus what is the the best choice beyond Nebraska?

For 6146, that is?

6436. Re: [TS-520_820_530_830] Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 23:37:45 UTC
From: Walt Breining
Topic: 6404 Message: 6436

Larry, I think that you have two problems. The rig didn't work and you thought it might be the tubes so you replaced the tubes with bad ones. (through no fault of yours of course).

So we are back to the following, No ALC on CW or tune, No ALC while going ahhh into the microphone with the mike gain all the way up.

Now where I have lost track is how is the receive?

Does the 12BY7 Light? You can leave the finals out for now. Turn the SG switch off while the finals are out. Be sure the plate connections in the final section are positioned such as that they do not get into mischief.

N9WB Walt
----- Original Message -----
From: "Larry" <l-sherwood@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, January 16, 2006 4:58 PM
Subject: [TS-520_820_530_830] Re: TS-520S

> --- In TS-520_820_530_830@yahoogroups.com, "kc2mrq" <brian_w001@h...>
> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@c...>
> > wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "kc2mrq"
> > > <brian_w001@h...> wrote:
> > > >
> > > > Hello all!
> > > >
> > > > I joined this group after reading a recommendation in QRZ.COM
> that
> > > it
> > > > was very knowlegable about Hybrid problems, I hope so!
> > > >
> > > > Reading all I could, I decided the 12by7a was a goner, ordered
> and
> > > > replaced ALL tubes as the finals were S2001A's. Symptoms the
> > > same.
> > > >
> > > > The ALC does not swing on any freq, but the instant the send
> key is
> > > > released, it will swing a part ways up the scale and settle
> back to
> > > > zero. The amount of Mic gain does seem to determine how far up

> it
> > > > swings before settling down again. Mic/Car gain have been set
> about
> > > > the 10 o'clock position.
> > > > rear final let out a small flash of light. Arcing? No where to
> dump
> > > > the HV present? Hmmm.. you can tune a radio, but you cant tuna
> > > fish..
> > > >
> > > > Hope someone can help. Looking forward to chatting, thanks!
> > > >
> > > > Brian
> > > >
> > > I'm not sure what your problem is. Do you have access to an
> > > Oscilloscope? The next step would be to check for RF drive, all
> the
> > > way through the RF path.
> > >
> > > I do have one question, were the new tubes, particularly the one
> > > that arced, 6146W's?
> >
> > Larry,
> >
> > No o'scope at home, just a DMM, just started trying to put a shack
> > together with limited funds.
> >
> > To recap:
> >
> > From the original symptoms, I guessed the driver was bad, so ordered
> > and replaced all tubes, 12by7a and replaced finals with 6146w's as I
> > read they were more robust than standards and read all tubes should
> be
> > replaced at once.
> >
> > After the rear tube arced, I shut it down, and wrote an email here.
> > Later I tried again with MIC turned up as mentioned in a response,
> but
> > rear tube was dead, and front tube began to glow red. Shut it down.
> > Put old tube (s2001a) back in rear, powered up, and old tube heated,
> > but new tube now dead in front.
> >
> >>
> > Thanks Larry.
> >
> Part of your problem may be that you are dealing with some bad NOS
> 6146W's. Two of us on this releflector have purchased the 6146w's
> from a place in Nebraska, and we both had arcing problems.
>
>
>

>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6437. Re: [TS-520_820_530_830] Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 23:48:32 UTC
From: Walt Breining
Topic: 6404 Message: 6437

Another thing:

With the bottom of the rig up and the rear facing you, find the 120/220 switch on the back. Just forward and to the left a bit is a metal shield or wall around the HV boards. Near the 120/220 switch there are a lot of wires grounded to this shield or wall through a hole on the edge and soldered. These solder connections are often bad. Check this closely. They may seem solid, but may be connected by flux. You may want to remove these wires and re dress them, clean the metal well and resolder them well.

Anybody working on a 520 should check this.

BTW, I think that there is a good possibility that when you get the other problems solved, the S-2001s will be good and you will not need new tubes.

Respond to these inquiries and I will give you some other things to try.

Walt N9WB
----- Original Message -----
From: "Walt Breining" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, January 16, 2006 6:37 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520S

> Larry, I think that you have two problems. The rig didn't work and you
> thought it might be the tubes so you replaced the tubes with bad ones.
> (through no fault of yours of course).
>
> So we are back to the following, No ALC on CW or tune, No ALC while going
> ahhh into the microphone with the mike gain all the way up.
>
> Now where I have lost track is how is the receive?
>
> Does the 12BY7 Light? You can leave the finals out for now. Turn the SG
> switch off while the finals are out. Be sure the plate connections in the
> final section are positioned such as that they do not get into mischief.
>
> N9WB Walt

6438. VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 23:45:43 UTC
From: amfone@sbcglobal.net
Topic: 6438 Message: 6438

Anyone have a TS 820S VFO cable with both plugs wired of course to connect the TS820S to the VFO 820 ?
Sure would like to buy one..
thanks tim

[Non-text portions of this message have been removed]

6439. Part number

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-16 23:44:08 UTC
From: amfone@sbcglobal.net
Topic: 6439 Message: 6439

Anyone know the part number for the small 9 pin plug Kenwood uses for the VFO connection for the TS 820S ??

thanks
73 tim

[Non-text portions of this message have been removed]

6440. Re: [TS-520_820_530_830] Part number

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 00:10:37 UTC
From: Walt Breining
Topic: 6439 Message: 6440

If you are wanting to connect a VFO disregard this. If you are making a jumper plug, tell me and I will tell you about the olde paper clip trick.
N9WB
----- Original Message -----
From: <amfone@...>
To: <TS-520_820_530_830@yahoogroups.com>
Cc: "john" <wb4pms@...>
Sent: Monday, January 16, 2006 6:44 PM
Subject: [TS-520_820_530_830] Part number

> Anyone know the part number for the small 9 pin plug Kenwood uses for the VFO connection for the TS 820S ??
>
> thanks
> 73 tim
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6441. Re: Part number

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 01:30:03 UTC
From: james27613
Topic: 6439 Message: 6441

Hi Tim,

E05-0901-05 is the part number.

I have the part listed along with other parts.
in the database section of the forum.

The cable is straight connected, 1-1, etc
pin 7 is not used.

E05-0901-05
kenwoodparts.com
VFO 9 Pin plug
jumper pins 8 +9
ts 520/820 series

6442. Re: [TS-520_820_530_830] Part number

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 02:52:28 UTC
From: amfone@sbcglobal.net
Topic: 6439 Message: 6442

Walt
Thanks I am making a VFO cable, would like to find one made Professionally or original by Kenwood..
Thanks again Walt
73 Tim
wb8uhz
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 16, 2006 7:10 PM
Subject: Re: [TS-520_820_530_830] Part number

If you are wanting to connect a VFO disregard this. If you are making a jumper plug, tell me and I will tell you about the olde paper clip trick.
N9WB
----- Original Message -----
From: <amfone@...>
To: <TS-520_820_530_830@yahoogroups.com>
Cc: "john" <wb4pms@...>
Sent: Monday, January 16, 2006 6:44 PM
Subject: [TS-520_820_530_830] Part number

> Anyone know the part number for the small 9 pin plug Kenwood uses for the VFO connection for the TS 820S ??
>
> thanks
> 73 tim
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6443. Re: [TS-520_820_530_830] Re: Part number

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 02:49:51 UTC
From: amfone@sbcglobal.net
Topic: 6439 Message: 6443

thanks very much.. I tried to search on the Kenwood East Coast site and by describing the part I came back with about 27000 hits!!! Not good..
thanks again 73 Tim
wb8uhz
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, January 16, 2006 8:30 PM
Subject: [TS-520_820_530_830] Re: Part number

Hi Tim,

E05-0901-05 is the part number.

I have the part listed along with other parts.
in the database section of the forum.

The cable is straight connected, 1-1, etc
pin 7 is not used.

E05-0901-05
kenwoodparts.com
VFO 9 Pin plug
jumper pins 8 +9
ts 520/820 series

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6444. TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 12:41:32 UTC
From: vk5kyo
Topic: 6444 Message: 6444

Hi all

Having read all the positive comments in this group, I have decided that it is a must for any amateur to drive a Kenwood 830 if given the opportunity.
Well the opportunity has come but something under the bonnet is not well.
I have volunteered to repair an 830 of which the owner is complaining of
Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
Other bands output claimed normal.
My own inital checks mostly agreed with the claims except that the bands with no power did in fact have some but very low.
So in short the following was done
1. Checked and cleaned band selector switches and alignment.
2. 12BY7 substitute.
3. 6146 substitute.
4. Aligned the TX slugs.
5. Bias set.
6. A good look around for the obvious.
The only thing I havent done yet is to neutralise it. For now adjustments are smooth and spectrum is clean.

I have managed to get full power on all bands now but still not on 18MHz and 21MHz. There is definetly something a miss there.

When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all looks good and same level on all bands. That pretty well proves anything before that is OK.

This unit serial number is 103xxxx which I think is a fairly early one and that someone has enabled the WARC bands.

My question to the group is if you have any ideas of the cause.
I am sort of speculating maybe a common capacitor for those 2 bands.
I need to study the faded circuit a bit more.
But as beautiful as these rigs are, from a servicing point of view, not the easiest thing to replace components.
I'll appreciate your comments

Regards from Joan VK5KYO

6445. Re: TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 15:46:12 UTC
From: Larry
Topic: 6404 Message: 6445

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> Larry, I think that you have two problems. The rig didn't work and you
> thought it might be the tubes so you replaced the tubes with bad ones.
> (through no fault of yours of course).
>
> So we are back to the following, No ALC on CW or tune, No ALC while going
> ahhh into the microphone with the mike gain all the way up.
>
> Now where I have lost track is how is the receive?
>
> Does the 12BY7 Light? You can leave the finals out for now. Turn the SG
> switch off while the finals are out. Be sure the plate connections in the
> final section are positioned such as that they do not get into mischief.
>
> N9WB Walt
> ----- Original Message -----
> From: "Larry" l-sherwood@c...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, January 16, 2006 4:58 PM
> Subject: [TS-520_820_530_830] Re: TS-520S
>
>
> > --- In TS-520_820_530_830@yahoogroups.com, "kc2mrq" brian_w001@h...
> > wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Larry" l-sherwood@c...
> > > wrote:
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "kc2mrq"
> > > > brian_w001@h... wrote:
> > > > >
> > > > > Hello all!
> > > > >
> > > > > I joined this group after reading a recommendation in QRZ.COM
> > that
> > > > > it
> > > > > was very knowlegable about Hybrid problems, I hope so!
> > > > >
> > > > > Reading all I could, I decided the 12by7a was a goner, ordered
> > and
> > > > > replaced ALL tubes as the finals were S2001A's. Symptoms the
> > > > same.
> > > > >
> > > > > The ALC does not swing on any freq, but the instant the send

> > key is
> > > > > released, it will swing a part ways up the scale and settle
> > back to
> > > > > > zero. The amount of Mic gain does seem to determine how far up
> > it
> > > > > > swings before settling down again. Mic/Car gain have been set
> > about
> > > > > > the 10 o'clock position.
> > > > > > rear final let out a small flash of light. Arcing? No where to
> > dump
> > > > > > the HV present? Hmmm.. you can tune a radio, but you cant tuna
> > > > > fish..
> > > > > >
> > > > > > Hope someone can help. Looking forward to chatting, thanks!
> > > > > >
> > > > > > Brian
> > > > > >
> > > > > I'm not sure what your problem is. Do you have access to an
> > > > > Oscilloscope? The next step would be to check for RF drive, all
> > the
> > > > > way through the RF path.
> > > > >
> > > > > I do have one question, were the new tubes, particularly the one
> > > > > that arced, 6146W's?
> > > >
> > > > Larry,
> > > >
> > > > No o'scope at home, just a DMM, just started trying to put a shack
> > > > together with limited funds.
> > > >
> > > > To recap:
> > > >
> > > > From the original symptoms, I guessed the driver was bad, so ordered
> > > > and replaced all tubes, 12by7a and replaced finals with 6146w's as I
> > > > read they were more robust than standards and read all tubes should
> > be
> > > > replaced at once.
> > > >
> > > > After the rear tube arced, I shut it down, and wrote an email here.
> > > > Later I tried again with MIC turned up as mentioned in a response,
> > but
> > > > rear tube was dead, and front tube began to glow red. Shut it down.
> > > > Put old tube (s2001a) back in rear, powered up, and old tube heated,
> > > > but new tube now dead in front.
> > > >
> > >>
> > > > Thanks Larry.
> > > >
> > Part of your problem may be that you are dealing with some bad NOS
> > 6146W's. Two of us on this releflector have purchased the 6146w's

> > from a place in Nebraska, and we both had arcing problems.
> >

Thanks Walt. Actually, it's Brian, kc2mrq
that is having these problems. My problem was that the 6146w's from Neb. arced and took out my cathode resistors. When I went back to the old original tubes, and replaced the CAthode resistors, the radio worked fine again. I tested the 6146W's in a tube tester, and they tested fine. Of course the tube tester doesn't apply 800 V to the plate. I have not had the courage to try the 6146W's again.

[Non-text portions of this message have been removed]

6446. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 16:07:09 UTC
From: Bill Scurlock
Topic: 6444 Message: 6446

Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.

I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.

You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.

Good luck Joan.

73, Bill, K5GCW
----- Original Message -----
From: vk5kyo
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 6:41 AM
Subject: [TS-520_820_530_830] TS830S low power

Hi all

Having read all the positive comments in this group, I have decided
that it is a must for any amateur to drive a Kenwood 830 if given
the opportunity.
Well the opportunity has come but something under the bonnet is not
well.
I have volunteered to repair an 830 of which the owner is
complaining of
Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
Other bands output claimed normal.
My own inital checks mostly agreed with the claims except that the
bands with no power did in fact have some but very low.
So in short the following was done
1. Checked and cleaned band selector switches and alignment.
2. 12BY7 substitute.
3. 6146 substitute.

4. Aligned the TX slugs.
5. Bias set.
6. A good look around for the obvious.
The only thing I havent done yet is to neutralise it. For now
adjustments are smooth and spectrum is clean.

I have managed to get full power on all bands now but still not on
18MHz and 21MHz. There is definetly something a miss there.

When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
looks good and same level on all bands. That pretty well proves
anything before that is OK.

This unit serial number is 103xxxx which I think is a fairly early
one and that someone has enabled the WARC bands.

My question to the group is if you have any ideas of the cause.
I am sort of speculating maybe a common capacitor for those 2 bands.
I need to study the faded circuit a bit more.
But as beautiful as these rigs are, from a servicing point of view,
not the easiest thing to replace components.
I'll appreciate your comments

Regards from Joan VK5KYO

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6447. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 16:14:42 UTC
From: Ken Winterling
Topic: 6444 Message: 6447

Bill,

Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
>
> I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
>
> You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
>
> Good luck Joan.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: vk5kyo
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 6:41 AM
> Subject: [TS-520_820_530_830] TS830S low power
>
>
>
> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of

> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6448. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 16:49:39 UTC
From: Bill Scurlock
Topic: 6444 Message: 6448

Hi Ken.

The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.

Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?

Bill, K5GCW
----- Original Message -----
From: Ken Winterling
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 10:14 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

Bill,

Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
>
> I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
>
> You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
>
> Good luck Joan.
>
> 73, Bill, K5GCW

> ----- Original Message -----
> From: vk5kyo
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 6:41 AM
> Subject: [TS-520_820_530_830] TS830S low power
>
>
> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>

>
>
>
>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6449. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 17:52:25 UTC
From: Bill Scurlock
Topic: 6444 Message: 6449

Ken,
Please dis-regard my comment about the RF choke/inductor in TP4. I must have had a "senior moment".

Bill, K5GCW
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 10:49 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi Ken.

The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.

Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?

Bill, K5GCW
----- Original Message -----
From: Ken Winterling
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 10:14 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

Bill,

Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21

MHz coil.
>
> I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
>
> You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
>
> Good luck Joan.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: vk5kyo
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 6:41 AM
> Subject: [TS-520_820_530_830] TS830S low power
>
>
> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>

> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6450. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 18:15:17 UTC
From: Ken Winterling
Topic: 6444 Message: 6450

OK, Bill, Have you checked the coils for the 15M band? An open/short
there would cause the problem.

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@sbcglobal.net> wrote:
> Ken,
> Please dis-regard my comment about the RF choke/inductor in TP4. I must have had a
"senior moment".
>
> Bill, K5GCW
> ----- Original Message -----
> From: Bill Scurlock
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 10:49 AM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> Hi Ken.
>
> The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe
center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
>
> Since I had to go to my shop to get the probe info, I also picked up my data book on the
830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is
no RF choke in this test point. Maybe I should put an inductor in series with the scope
probe for better isolation. Comments?
>
> Bill, K5GCW
> ----- Original Message -----
> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 10:14 AM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> Bill,
>
> Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830,
cleaning it thoroughly, applying a conductive substance across the rivet connections, and I

re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> >
> > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> >
> > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> >
> > Good luck Joan.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: vk5kyo
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 6:41 AM
> > Subject: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi all
> >
> > Having read all the positive comments in this group, I have decided
> > that it is a must for any amateur to drive a Kenwood 830 if given
> > the opportunity.
> > Well the opportunity has come but something under the bonnet is not
> > well.
> > I have volunteered to repair an 830 of which the owner is
> > complaining of
> > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > Other bands output claimed normal.
> > My own inital checks mostly agreed with the claims except that the
> > bands with no power did in fact have some but very low.
> > So in short the following was done
> > 1. Checked and cleaned band selector switches and alignment.
> > 2. 12BY7 substitute.
> > 3. 6146 substitute.
> > 4. Aligned the TX slugs.
> > 5. Bias set.
> > 6. A good look around for the obvious.
> > The only thing I havent done yet is to neutralise it. For now
> > adjustments are smooth and spectrum is clean.
> >

> > I have managed to get full power on all bands now but still not on
> > 18MHz and 21MHz. There is definetly something a miss there.
> >
> > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > looks good and same level on all bands. That pretty well proves
> > anything before that is OK.
> >
> > This unit serial number is 103xxxx which I think is a fairly early
> > one and that someone has enabled the WARC bands.
> >
> > My question to the group is if you have any ideas of the cause.
> > I am sort of speculating maybe a common capacitor for those 2 bands.
> > I need to study the faded circuit a bit more.
> > But as beautiful as these rigs are, from a servicing point of view,
> > not the easiest thing to replace components.
> > I'll appreciate your comments
> >
> > Regards from Joan VK5KYO
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > --
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >

> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>

> Yahoo! Groups Links
>
>
>
>
>
>
>

6451. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 18:32:11 UTC
From: Bill Scurlock
Topic: 6444 Message: 6451

No Ken, I did not check the coil when I had the RF Board removed because I was concentrating on the Bandswitch being the problem. I will go look at the physical situation and see if I can get a test lead down to that position of the driver wafer switch. Otherwise, I'm looking at a couple of days labor removing and re-installing the RF Board, etc.

You said "coils" (plural). Since the receiver works on 15M, I think the only coil in question is L29 in the 12BY7 plate circuit. Am I wrong?

Bill, K5GCW
----- Original Message -----
From: Ken Winterling
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 12:15 PM
Subject: Re: [TS-520_820_530_830] TS830S low power

OK, Bill, Have you checked the coils for the 15M band? An open/short
there would cause the problem.

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> Ken,
> Please dis-regard my comment about the RF choke/inductor in TP4. I must have had a "senior moment".
>
> Bill, K5GCW
> ----- Original Message -----
> From: Bill Scurlock
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 10:49 AM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> Hi Ken.
>
> The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
>
> Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?
>
> Bill, K5GCW
> ----- Original Message -----

> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 10:14 AM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> Bill,
>
> Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> >
> > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> >
> > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> >
> > Good luck Joan.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: vk5kyo
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 6:41 AM
> > Subject: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi all
> >
> > Having read all the positive comments in this group, I have decided
> > that it is a must for any amateur to drive a Kenwood 830 if given
> > the opportunity.
> > Well the opportunity has come but something under the bonnet is not
> > well.

> > I have volunteered to repair an 830 of which the owner is
> > complaining of
> > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > Other bands output claimed normal.
> > My own inital checks mostly agreed with the claims except that the
> > bands with no power did in fact have some but very low.
> > So in short the following was done
> > 1. Checked and cleaned band selector switches and alignment.
> > 2. 12BY7 substitute.
> > 3. 6146 substitute.
> > 4. Aligned the TX slugs.
> > 5. Bias set.
> > 6. A good look around for the obvious.
> > The only thing I havent done yet is to neutralise it. For now
> > adjustments are smooth and spectrum is clean.
> >
> > I have managed to get full power on all bands now but still not on
> > 18MHz and 21MHz. There is definetly something a miss there.
> >
> > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > looks good and same level on all bands. That pretty well proves
> > anything before that is OK.
> >
> > This unit serial number is 103xxxx which I think is a fairly early
> > one and that someone has enabled the WARC bands.
> >
> > My question to the group is if you have any ideas of the cause.
> > I am sort of speculating maybe a common capacitor for those 2 bands.
> > I need to study the faded circuit a bit more.
> > But as beautiful as these rigs are, from a servicing point of view,
> > not the easiest thing to replace components.
> > I'll appreciate your comments
> >
> > Regards from Joan VK5KYO
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com

> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > --
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> --
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> --
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.

>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6452. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 19:08:51 UTC
From: Walt Breining
Topic: 6444 Message: 6452

I'd solder a 1 meg resistor to the test point keeping the leads short and look on the outside end of it. It should still give you a relative indication of level between bands. You might try this with the direct probe. While your probe shows close to 9 meg Dc it may have some reactance much lower than 9 meg.
Walt N9WB
----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 17, 2006 11:49 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

> Hi Ken.
>
> The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
>
> Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?
>
> Bill, K5GCW
> ----- Original Message -----
> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 10:14 AM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> Bill,
>
> Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently

made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> >
> > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> >
> > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> >
> > Good luck Joan.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: vk5kyo
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 6:41 AM
> > Subject: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi all
> >
> > Having read all the positive comments in this group, I have decided
> > that it is a must for any amateur to drive a Kenwood 830 if given
> > the opportunity.
> > Well the opportunity has come but something under the bonnet is not
> > well.
> > I have volunteered to repair an 830 of which the owner is
> > complaining of
> > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > Other bands output claimed normal.
> > My own inital checks mostly agreed with the claims except that the
> > bands with no power did in fact have some but very low.
> > So in short the following was done
> > 1. Checked and cleaned band selector switches and alignment.
> > 2. 12BY7 substitute.
> > 3. 6146 substitute.
> > 4. Aligned the TX slugs.
> > 5. Bias set.
> > 6. A good look around for the obvious.
> > The only thing I havent done yet is to neutralise it. For now
> > adjustments are smooth and spectrum is clean.
> >

> > I have managed to get full power on all bands now but still not on
> > 18MHz and 21MHz. There is definetly something a miss there.
> >
> > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > looks good and same level on all bands. That pretty well proves
> > anything before that is OK.
> >
> > This unit serial number is 103xxxx which I think is a fairly early
> > one and that someone has enabled the WARC bands.
> >
> > My question to the group is if you have any ideas of the cause.
> > I am sort of speculating maybe a common capacitor for those 2 bands.
> > I need to study the faded circuit a bit more.
> > But as beautiful as these rigs are, from a servicing point of view,
> > not the easiest thing to replace components.
> > I'll appreciate your comments
> >
> > Regards from Joan VK5KYO
> >
> >
> >
> >
> >
> >
> >
> >
> >
>

> --

> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
> >
> >
>

> --

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >

> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---

>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6453. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 19:02:04 UTC
From: Ken Winterling
Topic: 6444 Message: 6453

Bill,

I don't know if you are right or wrong. I wasn't scouring the roadmap
for specific details (I am at work and they, unreasonably!, expect me
to concentrate on my job, not my hobby) so I should have said coil(s)
in case there was more than one. Sorry that I possibly mislead you.

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> No Ken, I did not check the coil when I had the RF Board removed because I was
concentrating on the Bandswitch being the problem. I will go look at the physical situation
and see if I can get a test lead down to that position of the driver wafer switch.
Otherwise, I'm looking at a couple of days labor removing and re-installing the RF Board,
etc.
>
> You said "coils" (plural). Since the receiver works on 15M, I think the only coil in
question is L29 in the 12BY7 plate circuit. Am I wrong?
>
> Bill, K5GCW
> ----- Original Message -----
> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 12:15 PM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> OK, Bill, Have you checked the coils for the 15M band? An open/short
> there would cause the problem.
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Ken,
> > Please dis-regard my comment about the RF choke/inductor in TP4. I must have had a
"senior moment".
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Bill Scurlock
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:49 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi Ken.

> >
> > The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
> >
> > Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Ken Winterling
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:14 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Bill,
> >
> > Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
> >
> > Ken, WA2LBI
> >
> > On 1/17/06, Bill Scurlock <k5gcw@sbcglobal.net> wrote:
> > > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> > >
> > > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> > >
> > > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> > >
> > > Good luck Joan.
> > >
> > > 73, Bill, K5GCW
> > > ----- Original Message -----
> > > From: vk5kyo
> > > To: TS-520_820_530_830@yahoogroups.com

> > > Sent: Tuesday, January 17, 2006 6:41 AM
> > > Subject: [TS-520_820_530_830] TS830S low power
> > >
> > >
> > > Hi all
> > >
> > > Having read all the positive comments in this group, I have decided
> > > that it is a must for any amateur to drive a Kenwood 830 if given
> > > the opportunity.
> > > Well the opportunity has come but something under the bonnet is not
> > > well.
> > > I have volunteered to repair an 830 of which the owner is
> > > complaining of
> > > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > > Other bands output claimed normal.
> > > My own inital checks mostly agreed with the claims except that the
> > > bands with no power did in fact have some but very low.
> > > So in short the following was done
> > > 1. Checked and cleaned band selector switches and alignment.
> > > 2. 12BY7 substitute.
> > > 3. 6146 substitute.
> > > 4. Aligned the TX slugs.
> > > 5. Bias set.
> > > 6. A good look around for the obvious.
> > > The only thing I havent done yet is to neutralise it. For now
> > > adjustments are smooth and spectrum is clean.
> > >
> > > I have managed to get full power on all bands now but still not on
> > > 18MHz and 21MHz. There is definetly something a miss there.
> > >
> > > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > > looks good and same level on all bands. That pretty well proves
> > > anything before that is OK.
> > >
> > > This unit serial number is 103xxxx which I think is a fairly early
> > > one and that someone has enabled the WARC bands.
> > >
> > > My question to the group is if you have any ideas of the cause.
> > > I am sort of speculating maybe a common capacitor for those 2 bands.
> > > I need to study the faded circuit a bit more.
> > > But as beautiful as these rigs are, from a servicing point of view,
> > > not the easiest thing to replace components.
> > > I'll appreciate your comments
> > >
> > > Regards from Joan VK5KYO
> > >
> > >
> > >
> > >
> > >

> > >
> > >
> > >
> > >
> > > ---
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> > >
> > >
> > > ---
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > ---

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>

>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6454. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 21:35:44 UTC
From: Bill Scurlock
Topic: 6444 Message: 6454

Ken,

You were correct. I got my lines mixed up on the schematic. There are input and output coils for the Driver stage. I just got confused because you tune the input coils as part of the receiver alignment, and the output coils are tuned in the TX mode. I was able to measure the resistance of each individual coil, so the 15M coils are not open. Although the sequence of resistance values makes sense (values are larger at the lower frequencies) and they change in a smooth progression (don't jump around) as you go from lower to higher frequency bands, I still don't know if that means the coils could not be partially shorted out. The coil resistance values in the input grid circuit vary from 0.09 ohm at 10M to 1.00 ohm at 75M, and in the output plate circuit they vary from 0.04 ohm at 10M to 0.49 ohm at 75M. These were measured with a Fluke 8060A, and test lead resistance was subtracted from the readings.

Now that I realize that the driver grid has been tuned as part of the receiver alignment, I think I will try tuning the 15M RF Amp coil in the driver grid during the TX alignment and see if that changes things. But, it may be a while before I have time to do that.

Thanks for your time Ken. Your assistance is greatly appreciated.

73, Bill, K5GCW
----- Original Message -----
From: Ken Winterling
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 1:02 PM
Subject: Re: [TS-520_820_530_830] TS830S low power

Bill,

I don't know if you are right or wrong. I wasn't scouring the roadmap
for specific details (I am at work and they, unreasonably!, expect me
to concentrate on my job, not my hobby) so I should have said coil(s)
in case there was more than one. Sorry that I possibly mislead you.

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> No Ken, I did not check the coil when I had the RF Board removed because I was concentrating on the Bandswitch being the problem. I will go look at the physical situation and see if I can get a test lead down to that position of the driver wafer switch. Otherwise, I'm looking at a couple of days labor removing and re-installing the RF Board, etc.
>
> You said "coils" (plural). Since the receiver works on 15M, I think the only coil in question is L29 in the 12BY7 plate circuit. Am I wrong?
>
> Bill, K5GCW

> ----- Original Message -----
> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 12:15 PM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> OK, Bill, Have you checked the coils for the 15M band? An open/short
> there would cause the problem.
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Ken,
> > Please dis-regard my comment about the RF choke/inductor in TP4. I must have had a "senior moment".
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Bill Scurlock
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:49 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi Ken.
> >
> > The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
> >
> > Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Ken Winterling
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:14 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Bill,
> >
> > Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
> >
> > Ken, WA2LBI
> >
> > On 1/17/06, Bill Scurlock <k5gcw@...> wrote:

> > > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> > >
> > > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> > >
> > > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> > >
> > > Good luck Joan.
> > >
> > > 73, Bill, K5GCW
> > > ----- Original Message -----
> > > From: vk5kyo
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, January 17, 2006 6:41 AM
> > > Subject: [TS-520_820_530_830] TS830S low power
> > >
> > >
> > > Hi all
> > >
> > > Having read all the positive comments in this group, I have decided
> > > that it is a must for any amateur to drive a Kenwood 830 if given
> > > the opportunity.
> > > Well the opportunity has come but something under the bonnet is not
> > > well.
> > > I have volunteered to repair an 830 of which the owner is
> > > complaining of
> > > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > > Other bands output claimed normal.
> > > My own inital checks mostly agreed with the claims except that the
> > > bands with no power did in fact have some but very low.
> > > So in short the following was done
> > > 1. Checked and cleaned band selector switches and alignment.
> > > 2. 12BY7 substitute.
> > > 3. 6146 substitute.
> > > 4. Aligned the TX slugs.
> > > 5. Bias set.
> > > 6. A good look around for the obvious.

> > > The only thing I havent done yet is to neutralise it. For now
> > > adjustments are smooth and spectrum is clean.
> > >
> > > I have managed to get full power on all bands now but still not on
> > > 18MHz and 21MHz. There is definetly something a miss there.
> > >
> > > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > > looks good and same level on all bands. That pretty well proves
> > > anything before that is OK.
> > >
> > > This unit serial number is 103xxxx which I think is a fairly early
> > > one and that someone has enabled the WARC bands.
> > >
> > > My question to the group is if you have any ideas of the cause.
> > > I am sort of speculating maybe a common capacitor for those 2 bands.
> > > I need to study the faded circuit a bit more.
> > > But as beautiful as these rigs are, from a servicing point of view,
> > > not the easiest thing to replace components.
> > > I'll appreciate your comments
> > >
> > > Regards from Joan VK5KYO
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > --
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> > >
> > >
> > > --
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >

> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >

> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
> --
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> --
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6455. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 22:42:00 UTC
From: Bill Scurlock
Topic: 6444 Message: 6455

Hi Walt. Yes, you are correct about the reactance of the probe. The Kenwood data specifies a maximum probe capacitance of 3 pf, and my probe has about 10 pf. According to the manual on my probe, the reactance gets fairly low at the higher HF frequencies which will load down test points.

Thanks for responding Walt.

73, Bill, K5GCW
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 1:08 PM
Subject: Re: [TS-520_820_530_830] TS830S low power

I'd solder a 1 meg resistor to the test point keeping the leads short and look on the outside end of it. It should still give you a relative indication of level between bands. You might try this with the direct probe. While your probe shows close to 9 meg Dc it may have some reactance much lower than 9 meg.
Walt N9WB
----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 17, 2006 11:49 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

> Hi Ken.
>
> The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
>
> Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?
>
> Bill, K5GCW
> ----- Original Message -----
> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 10:14 AM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>

> Bill,
>
> Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> >
> > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> >
> > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> >
> > Good luck Joan.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: vk5kyo
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 6:41 AM
> > Subject: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi all
> >
> > Having read all the positive comments in this group, I have decided
> > that it is a must for any amateur to drive a Kenwood 830 if given
> > the opportunity.
> > Well the opportunity has come but something under the bonnet is not
> > well.
> > I have volunteered to repair an 830 of which the owner is
> > complaining of
> > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz

> > Other bands output claimed normal.
> > My own inital checks mostly agreed with the claims except that the
> > bands with no power did in fact have some but very low.
> > So in short the following was done
> > 1. Checked and cleaned band selector switches and alignment.
> > 2. 12BY7 substitute.
> > 3. 6146 substitute.
> > 4. Aligned the TX slugs.
> > 5. Bias set.
> > 6. A good look around for the obvious.
> > The only thing I havent done yet is to neutralise it. For now
> > adjustments are smooth and spectrum is clean.
> >
> > I have managed to get full power on all bands now but still not on
> > 18MHz and 21MHz. There is definetly something a miss there.
> >
> > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > looks good and same level on all bands. That pretty well proves
> > anything before that is OK.
> >
> > This unit serial number is 103xxxx which I think is a fairly early
> > one and that someone has enabled the WARC bands.
> >
> > My question to the group is if you have any ideas of the cause.
> > I am sort of speculating maybe a common capacitor for those 2 bands.
> > I need to study the faded circuit a bit more.
> > But as beautiful as these rigs are, from a servicing point of view,
> > not the easiest thing to replace components.
> > I'll appreciate your comments
> >
> > Regards from Joan VK5KYO
> >
> >
> >
> >
> >
> >
> >
> >
> >
>

> --

> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com

> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
> >
> >
>

> --

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> --

>
>
>
> [Non-text portions of this message have been removed]

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6456. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-17 23:57:02 UTC
From: Bill Scurlock
Topic: 6444 Message: 6456

Ken, check your regular email - I sent you one today.

Bill, K5GCW
----- Original Message -----
From: Ken Winterling
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, January 17, 2006 1:02 PM
Subject: Re: [TS-520_820_530_830] TS830S low power

Bill,

I don't know if you are right or wrong. I wasn't scouring the roadmap
for specific details (I am at work and they, unreasonably!, expect me
to concentrate on my job, not my hobby) so I should have said coil(s)
in case there was more than one. Sorry that I possibly mislead you.

Ken, WA2LBI

On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> No Ken, I did not check the coil when I had the RF Board removed because I was concentrating on the Bandswitch being the problem. I will go look at the physical situation and see if I can get a test lead down to that position of the driver wafer switch. Otherwise, I'm looking at a couple of days labor removing and re-installing the RF Board, etc.
>
> You said "coils" (plural). Since the receiver works on 15M, I think the only coil in question is L29 in the 12BY7 plate circuit. Am I wrong?
>
> Bill, K5GCW
> ----- Original Message -----
> From: Ken Winterling
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, January 17, 2006 12:15 PM
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
>
> OK, Bill, Have you checked the coils for the 15M band? An open/short
> there would cause the problem.
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Ken,
> > Please dis-regard my comment about the RF choke/inductor in TP4. I must have had a "senior moment".
> >

> > Bill, K5GCW
> > ----- Original Message -----
> > From: Bill Scurlock
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:49 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi Ken.
> >
> > The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X (10:1). I measured the probe center conductor resistance to be 9.06 Meg. ohms with a Fluke 8060A.
> >
> > Since I had to go to my shop to get the probe info, I also picked up my data book on the 830 and brought it back to the house. Looking at TP4 on the schematic, I see that there is no RF choke in this test point. Maybe I should put an inductor in series with the scope probe for better isolation. Comments?
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Ken Winterling
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:14 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Bill,
> >
> > Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
> >
> > Ken, WA2LBI
> >
> > On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > > Hi Joan. I have just spent the last week or so removing the bandswitch from my TS-830, cleaning it thoroughly, applying a conductive substance across the rivet connections, and I re-assembled it yesterday. Previously I had no output on 15M, and it was intermittant on 12M. After I completed refurbishing the bandswitch contacts, I checked them with an ohmeter and they were very low resistance (about 0.05 ohm) and consistently made good contact. The results were that all intermittants are gone, but still no output on 15M. There is no ALC action with the Carrier control at maximum when tuning the Drive control through it's full range. All other bands have strong ALC indication at 9 to 10 o'clock on the Carrier control. I tried using my 100 MHz scope on TP4, but it loaded down the test point, so it is very interesting that you found the same drive signal strength at the 12BY7 on all bands and yet no output on 17M and 15M. My documentation is not with me right now, but I think there is a small capacitor across the 18 MHz coil, and there is no capacitor across the 21 MHz coil.
> > >
> > > I am looking for suggestions just as you are, and would appreciate you letting me know what you find out. If I luck onto it first, I will certainly let you know.
> > >

> > > You are certainly correct in that access to all the various components on the circuit boards is very labor intensive on the 830.
> > >
> > > Good luck Joan.
> > >
> > > 73, Bill, K5GCW
> > > ----- Original Message -----
> > > From: vk5kyo
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, January 17, 2006 6:41 AM
> > > Subject: [TS-520_820_530_830] TS830S low power
> > >
> > >
> > > Hi all
> > >
> > > Having read all the positive comments in this group, I have decided
> > > that it is a must for any amateur to drive a Kenwood 830 if given
> > > the opportunity.
> > > Well the opportunity has come but something under the bonnet is not
> > > well.
> > > I have volunteered to repair an 830 of which the owner is
> > > complaining of
> > > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > > Other bands output claimed normal.
> > > My own inital checks mostly agreed with the claims except that the
> > > bands with no power did in fact have some but very low.
> > > So in short the following was done
> > > 1. Checked and cleaned band selector switches and alignment.
> > > 2. 12BY7 substitute.
> > > 3. 6146 substitute.
> > > 4. Aligned the TX slugs.
> > > 5. Bias set.
> > > 6. A good look around for the obvious.
> > > The only thing I havent done yet is to neutralise it. For now
> > > adjustments are smooth and spectrum is clean.
> > >
> > > I have managed to get full power on all bands now but still not on
> > > 18MHz and 21MHz. There is definetly something a miss there.
> > >
> > > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > > looks good and same level on all bands. That pretty well proves
> > > anything before that is OK.
> > >
> > > This unit serial number is 103xxxx which I think is a fairly early
> > > one and that someone has enabled the WARC bands.
> > >
> > > My question to the group is if you have any ideas of the cause.
> > > I am sort of speculating maybe a common capacitor for those 2 bands.
> > > I need to study the faded circuit a bit more.
> > > But as beautiful as these rigs are, from a servicing point of view,

> > > not the easiest thing to replace components.
> > > I'll appreciate your comments
> > >
> > > Regards from Joan VK5KYO
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > --
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> > >
> > >
> > > --
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > --
> > YAHOO! GROUPS LINKS
> >

> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> >
> > ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.

>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6457. TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 00:19:53 UTC
From: Stephen Davis
Topic: 6457 Message: 6457

Hello All,

What a great group of folks! I joined several months ago with the intention of posting right away, but got sidetracked. In the meantime I have greatly enjoyed reading all the posts and learning a little bit with each one. Now that I have some time to dedicate to my "problem rig", I thought I would solicit the help of the group.

Last summer, I decided to get back into Ham radio after being away from it for a while. I purchased a TS-820S from eBay and turns out it receives good, but doesn't transmit. I would like to try to troubleshoot and fix it, but I am a novice at this sort of stuff and need help. Someone in a eHam forum suggested this trying this group for assistance, so here I am!

So, the radio is a TS-820S. It receives fine, but when I try to tune it up (into a dummy load), the symptom I have is a 0 IP reading. I have tried adjusting the bias control in the back, but nothing changes. The SG switch is in the proper position and I have the plug in the external vfo socket in the back. If I switch the meter to the HF position, it reads about 850 volts. The tubes all light up and I have changed out the 12BY7A.

Any suggestions on what my next steps should be would be appreciated. I have a volt/ohm meter but that's about all I have in the way of test equipment. I also have a pair of 6146A's, but not sure if they are a replacement for the S2001A's. Looks like I need the 6146B's or 6146W's.

Thanks all for any help or advice you can give!

Steve
K7QHU

[Non-text portions of this message have been removed]

6458. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 09:29:53 UTC
From: Joan de vk5kyo
Topic: 6444 Message: 6458

Hi Bill

Were travelling the same road Bill, so thanks for the company and good
to hear from you.
If I find the problem before you do, I am sure to share it.
I have used your particular CRO for many years in the repair shop mainly
for 140Mb stuff, so I wouldnt have thought of any loading issues at the
frequencies were looking at. From memory the probe is the matching probe
for up to 400 MHz, just dont push the ID button while taking a measurement.
After all were not looking to make a calibration adjustment using the
CRO but rather to check relevant levels.
If Kenwood suggested less than 3pF for a CRO probe, I think most of us
amateurs will be in trouble.
It doesnt stop us from having a go and in most cases we get by with the
tools we have in the shack
Bill, I am using an older 10MOhm Tek probe with 12pf (because it is
6ft long I guess) for my relevant measurements and I think that is good
enough. The levels were measured all the same. If anything they actually
increased a bit as frequency went up. DC check on the coils are OK too.
I've misplaced my coils for the GDO, so I cant check resonance for now.
We'll keep the group posted

Joan

Ken Winterling wrote:

> OK, Bill, Have you checked the coils for the 15M band? An open/short
> there would cause the problem.
>
> Ken, WA2LBI
>
> On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > Ken,
> > Please dis-regard my comment about the RF choke/inductor in TP4. I
> must have had a "senior moment".
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Bill Scurlock
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:49 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Hi Ken.
> >

> > The scope is a TEK 465B and the probe is a 3.5' TEK 6010 10X
> (10:1). I measured the probe center conductor resistance to be 9.06
> Meg. ohms with a Fluke 8060A.
> >
> > Since I had to go to my shop to get the probe info, I also picked
> up my data book on the 830 and brought it back to the house. Looking
> at TP4 on the schematic, I see that there is no RF choke in this test
> point. Maybe I should put an inductor in series with the scope probe
> for better isolation. Comments?
> >
> > Bill, K5GCW
> > ----- Original Message -----
> > From: Ken Winterling
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, January 17, 2006 10:14 AM
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> >
> > Bill,
> >
> > Were you using a 1:1 probe or a 10:1 (or 100:1) probe on your 'scope?
> >
> > Ken, WA2LBI
> >
> > On 1/17/06, Bill Scurlock <k5gcw@...> wrote:
> > > Hi Joan. I have just spent the last week or so removing the
> bandswitch from my TS-830, cleaning it thoroughly, applying a
> conductive substance across the rivet connections, and I re-assembled
> it yesterday. Previously I had no output on 15M, and it was
> intermittant on 12M. After I completed refurbishing the bandswitch
> contacts, I checked them with an ohmeter and they were very low
> resistance (about 0.05 ohm) and consistently made good contact. The
> results were that all intermittants are gone, but still no output on
> 15M. There is no ALC action with the Carrier control at maximum when
> tuning the Drive control through it's full range. All other bands
> have strong ALC indication at 9 to 10 o'clock on the Carrier control.
> I tried using my 100 MHz scope on TP4, but it loaded down the test
> point, so it is very interesting that you found the same drive signal
> strength at the 12BY7 on all bands and yet no output on 17M and 15M.
> My documentation is not with me right now, but I think there is a
> small capacitor across the 18 MHz coil, and there is no capacitor
> across the 21 MHz coil.
> > >
> > > I am looking for suggestions just as you are, and would
> appreciate you letting me know what you find out. If I luck onto it
> first, I will certainly let you know.
> > >
> > > You are certainly correct in that access to all the various
> components on the circuit boards is very labor intensive on the 830.
> > >

> > > Good luck Joan.
> > >
> > > 73, Bill, K5GCW
> > > ----- Original Message -----
> > > From: vk5kyo
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, January 17, 2006 6:41 AM
> > > Subject: [TS-520_820_530_830] TS830S low power
> > >
> > >
> > > Hi all
> > >
> > > Having read all the positive comments in this group, I have
> decided
> > > that it is a must for any amateur to drive a Kenwood 830 if given
> > > the opportunity.
> > > Well the opportunity has come but something under the bonnet
> is not
> > > well.
> > > I have volunteered to repair an 830 of which the owner is
> > > complaining of
> > > Low power on 1.8MHz,24MHz,28MHz, and No output on
> 18MHz,21MHz,29MHz
> > > Other bands output claimed normal.
> > > My own inital checks mostly agreed with the claims except that the
> > > bands with no power did in fact have some but very low.
> > > So in short the following was done
> > > 1. Checked and cleaned band selector switches and alignment.
> > > 2. 12BY7 substitute.
> > > 3. 6146 substitute.
> > > 4. Aligned the TX slugs.
> > > 5. Bias set.
> > > 6. A good look around for the obvious.
> > > The only thing I havent done yet is to neutralise it. For now
> > > adjustments are smooth and spectrum is clean.
> > >
> > > I have managed to get full power on all bands now but still not on
> > > 18MHz and 21MHz. There is definetly something a miss there.
> > >
> > > When I look at TP4 (grid of 12BY7) with a spectrum analyser,
> it all
> > > looks good and same level on all bands. That pretty well proves
> > > anything before that is OK.
> > >
> > > This unit serial number is 103xxxx which I think is a fairly early
> > > one and that someone has enabled the WARC bands.
> > >
> > > My question to the group is if you have any ideas of the cause.
> > > I am sort of speculating maybe a common capacitor for those 2
> bands.

> > > I need to study the faded circuit a bit more.
> > > But as beautiful as these rigs are, from a servicing point of
> view,
> > > not the easiest thing to replace components.
> > > I'll appreciate your comments
> > >
> > > Regards from Joan VK5KYO
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> ---
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> Terms of Service.
> > >
> > >
> > >
> ---
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

> > Icom ham radio Yaesu ham radio
> >
> >
> >
> --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> >
> --
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
> --
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >

> >
> >
> >
> >
> >
> >
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.20/232 - Release Date: 17/01/2006
>
>
>

6459. Re: SWR creeping up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 09:51:11 UTC
From: VA7CAB
Topic: 6208 Message: 6459

Hi Folks,

It's purely an issue on 17M as I was running 75 watts RTTY (contest only S&P) on 20 M and 50 watts PSK on 40M with no problem.

Will check the antenna length on 17 and see if it's kicking up some sort of fuss!

Thanks again!

73 Chris

--- In TS-520_820_530_830@yahoogroups.com, "VA7CAB" <xenon@y...> wrote:
>
> Hi Folks,
>
> Wow thanks for the tips! I will check the balun and look at the
> antenna again as I've only noticed this on 17M. It's at my work QTH
> and I'm off until January so I will report back then.
>
> Thanks again and Happy New Year!
>
> 73 Chris
>

6460. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 10:28:47 UTC
From: Walt Breining
Topic: 6457 Message: 6460

Steve:
I doubt if it is tubes if their filaments are lit. The 6146 A's will work, but I think the S-2001s are best. After you get this sorted out, I'd put the originals back in and give them a try. The Toshiba 12BY7's are best as long as they are still good.

Unplug the rig and discharge the high voltage.

Inspect the two 10 ohm resistors from the tube cathodes to ground. R2 and R3. They are on the PA board. Look to see if they appear damaged. You should get an ohm reading of 5 ohms or slightly less from pin 1 of either tube to ground. If they are bad, be sure to replace them with 1 watt resistors as original. These act as a fuse and open if the cathode current gets way high and prevents frying serious things like the plate choke.

Check the plate choke, the long choke that feeds high voltage to the tubes for continuity. On the bottom of the plate choke there is a capacitor to ground and another choke. Check this choke for continuity. These should both read close to 0 ohms.

Now turn the rig back on. Place the mode switch in CW.

Carefully check the voltage from the point on the PA board labeled SG. It should read around 200 +VDC in CW. Be very careful while doing this. Don't be real critical about this reading, we are looking for something completely dead.

Let us know what the results of these tests were.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 17, 2006 7:19 PM
Subject: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> What a great group of folks! I joined several months ago with the
> intention of posting right away, but got sidetracked. In the meantime I
> have greatly enjoyed reading all the posts and learning a little bit with
> each one. Now that I have some time to dedicate to my "problem rig", I
> thought I would solicit the help of the group.
>
> Last summer, I decided to get back into Ham radio after being away
from

> it for a while. I purchased a TS-820S from eBay and turns out it receives
> good, but doesn't transmit. I would like to try to troubleshoot and fix
it,
> but I am a novice at this sort of stuff and need help. Someone in a eHam
> forum suggested this trying this group for assistance, so here I am!
>
> So, the radio is a TS-820S. It receives fine, but when I try to tune
> it up (into a dummy load), the symptom I have is a 0 IP reading. I have
> tried adjusting the bias control in the back, but nothing changes. The SG
> switch is in the proper position and I have the plug in the external vfo
> socket in the back. If I switch the meter to the HF position, it reads
> about 850 volts. The tubes all light up and I have changed out the
12BY7A.
>
>
> Any suggestions on what my next steps should be would be appreciated.
> I have a volt/ohm meter but that's about all I have in the way of test
> equipment. I also have a pair of 6146A's, but not sure if they are a
> replacement for the S2001A's. Looks like I need the 6146B's or 6146W's.
>
> Thanks all for any help or advice you can give!
>
> Steve
> K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6461. Re: [TS-520_820_530_830] Re: SWR creeping up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 10:33:48 UTC
From: Walt Breining
Topic: 6208 Message: 6461

I still think it is the balun. Probably the SWR is higher or the complex impedance is lower or 17 causing the balun to heat up. You may need a current balun.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "VA7CAB" <xenon@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 4:51 AM
Subject: [TS-520_820_530_830] Re: SWR creeping up

> Hi Folks,
>
> It's purely an issue on 17M as I was running 75 watts RTTY (contest
> only S&P) on 20 M and 50 watts PSK on 40M with no problem.
>
> Will check the antenna length on 17 and see if it's kicking up some
> sort of fuss!
>
> Thanks again!
>
> 73 Chris
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "VA7CAB" <xenon@y...> wrote:
> >
> > Hi Folks,
> >
> > Wow thanks for the tips! I will check the balun and look at the
> > antenna again as I've only noticed this on 17M. It's at my work QTH
> > and I'm off until January so I will report back then.
> >
> > Thanks again and Happy New Year!
> >
> > 73 Chris
> >
>
>
>
>
>
>
>

> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6462. Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 10:21:57 UTC
From: Christiaan Jacobs
Topic: 6462 Message: 6462

Hello

I have a TS-820, AT-200, ext VFO (not used but attached), feeding a G5RV. All grounded well.

I tune the rig into a dummy load with no dramas. I then follow the manual of the AT-200 to get a decent 1:1 load or at least under 1.5:1 on the freq of choice.

If I leave the carier control centered as in initial tuneup I get full output 100+ watts on the AT-200 used as a watt meter. However the manual for the 820 says on page 20 4.13 n blah blah blah The plate current should be about 200 ma. When I switch the meter to IP and then ruduce the Car to 200 ma my output reading on the AT-200 shows about 40 to 50 watts out.

Is this right? I know the AT-200 manual states that the RF meter can be incorrect when the SWR is high. Is this such a scenario?

73's

Chris VK2ICJ

6463. Re: [TS-520_820_530_830] Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 11:18:16 UTC
From: Walt Breining
Topic: 6462 Message: 6463

Be sure that you have the A-200 tuned for lowest SWR with the power reduced at least at first. Be sure the drive is peaked for max with the meter in the rig set to ALC. Then adjust the plate and tune for maximum watts. Turn the carrier control fully up and readjust for maximum watts. As long as you are not exceeding 250 Ma. you are fine. If you are running CW, reduce the carrier so the meter in the ALC position runs about mid scale.

Check neutralization.
Tune up into the dummy load on 21.3 MHz first on tune. Peak the Drive for maximum with meter on ALC. Then peak the plate and the load until you reach maximum. Now go to CW with the carrier control full up and do the same thing. Do not stay keyed for more than 15 seconds at a time. Once this is done place the meter switch to IP. Watch the IP current and the watt meter as you slowly move the plate control through the watt peak or the IP dip. The optimum situation is for the IP to dip at exactly the same point as the watts peak and for the drop in watts to be about the same on either side of the IP dip. It doesn't have to be perfect, but close. If this is very far off, you need to touch up the neutralization. This will only be the case on 21.3 or close to it.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "Christiaan Jacobs" <v2rocketeer@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 5:21 AM
Subject: [TS-520_820_530_830] Tuning CW power out probs

> Hello
>
> I have a TS-820, AT-200, ext VFO (not used but attached), feeding a
> G5RV. All grounded well.
>
> I tune the rig into a dummy load with no dramas. I then follow the
> manual of the AT-200 to get a decent 1:1 load or at least under 1.5:1
> on the freq of choice.
>
> If I leave the carier control centered as in initial tuneup I get
> full output 100+ watts on the AT-200 used as a watt meter. However
> the manual for the 820 says on page 20 4.13 n blah blah blah The
> plate current should be about 200 ma. When I switch the meter to IP
> and then ruduce the Car to 200 ma my output reading on the AT-200
> shows about 40 to 50 watts out.
>
> Is this right? I know the AT-200 manual states that the RF meter can

> be incorrect when the SWR is high. Is this such a scenario?
>
> 73's
>
> Chris VK2ICJ
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6464. Re: [TS-520_820_530_830] Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 12:03:31 UTC
From: Kevin der Kinderen
Topic: 6462 Message: 6464

Walt:

I normally reduce my ALC until it reads zero. I still get a full 100 watts out right at zero and backing down a little more will drop the power. I think I found this in the 830 manual and I have noticed my sig looks cleaner on the SM-220 with ALC at zero.

73,
Kev - K4VD

On 1/18/06, Walt Breining <n9wb@...> wrote:
>If you are running CW, reduce the
> carrier so the meter in the ALC position runs about mid scale.
>

6465. Re: [TS-520_820_530_830] Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 12:30:06 UTC
From: Walt Breining
Topic: 6462 Message: 6465

Kevin:
Actually you are correct. I found that in the manual after reading your posts.
So Chris, please note this change.
I think what is happening is that he is not getting the SWR nulled out exactly with the tuner.
Thanks. Walt N9WB
----- Original Message -----
From: "Kevin der Kinderen" <kkinderen@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 7:03 AM
Subject: Re: [TS-520_820_530_830] Tuning CW power out probs

> Walt:
>
> I normally reduce my ALC until it reads zero. I still get a full 100
> watts out right at zero and backing down a little more will drop the
> power. I think I found this in the 830 manual and I have noticed my
> sig looks cleaner on the SM-220 with ALC at zero.
>
> 73,
> Kev - K4VD
>
> On 1/18/06, Walt Breining <n9wb@...> wrote:
> >If you are running CW, reduce the
> > carrier so the meter in the ALC position runs about mid scale.
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6466. 853 members strong... wow!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 13:57:51 UTC
From: Bill
Topic: 6466 Message: 6466

I would like to welcome all the new members that have joined our group lately; sorry I have not been able to acknowledge each one, but your "messages to group owner" on the application page are much appreciated and sure make the moderator's job a lot easier!

At any rate, welcome to the group; as you can see it's pretty busy and there is lots of info in the archives. More messages than you can or would want to search, most likely. So the "search" field comes in handy; try searching 6146B in the archives, and you will find a gold mine of info on the tubes in these rigs.

You may wonder why we chose to group the TS-520, -530, -820 and -830 into one group. Well, from a technician's standpoint, these rigs are quite similar in many ways; there are also a lot of differences. And, since many of our members own more than one rig and usually own several of different models of this genre, why not just have one group so we can address all of them? So far, it's worked out well. Many of the good ideas presented for one rig will work on most or all of the other models as well (shaft couplers, tubes, filter caps all come to mind, as well as tuning techniques, filters, etc).

Don't forget to check out the other club features, such as FILES and LINKS. I think we also have a database or two that need to be "fed" with info!

I would like to thank all our members for making this one of the very best groups on Yahoo; I can't count all the hams that have gotten help here and gotten their rigs back on the air. We are also a "DX" group in that many of our members are outside of the US and Canada. This is what I was hoping for, since ham radio crosses international boundaries, so should this group! All are welcome here.

Very 73 and God bless you all for a happy and healthy year,

Bill K0ZL

6467. Re: [TS-520_820_530_830] Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 14:19:01 UTC
From: Paul Manuel
Topic: 6462 Message: 6467

--- Kevin der Kinderen <kkinderen@...> wrote:
> I normally reduce my ALC until it reads zero. I still get a full 100
> watts out right at zero and backing down a little more will drop the
> power. I think I found this in the 830 manual and I have noticed my
> sig looks cleaner on the SM-220 with ALC at zero.

I'm not sure about the manual (don't have an 830 right now,) but the
original QST review of the 830 mentions that the ALC should be at zero on
CW for the cleanest signal. That is how I have run all my rigs on CW. I
cannot see any reason to want ALC action on CW.
73,
Paul K4PDM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6468. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 17:24:59 UTC
From: Stephen Davis
Topic: 6457 Message: 6468

HI Walt,

Thanks for the suggestions. I have not yet tried the 6146A's in radio. The S-2001's are still in the rig. Here are the results of the tests you suggested:

1. The measurement across the 10 ohm resistors read 4.8 ohms, so they seem okay.
2. The measurement across the chokes basically show zero ohms, so I think they are okay, but not confident I did the measurement correctly. I measured from the top of the chokes to ground.
3. The measurement at the SG point on the PA board reads 268 volts when setting the mode switch to CW.

Thanks for your help and any additional suggestions you can give me.

73

Steve

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Wednesday, January 18, 2006 3:29 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Steve:
I doubt if it is tubes if their filaments are lit. The 6146 A's will work, but I think the S-2001s are best. After you get this sorted out, I'd put the originals back in and give them a try. The Toshiba 12BY7's are best as long as they are still good.

Unplug the rig and discharge the high voltage.

Inspect the two 10 ohm resistors from the tube cathodes to ground. R2 and R3. They are on the PA board. Look to see if they appear damaged. You should get an ohm reading of 5 ohms or slightly less from pin 1 of either tube to ground. If they are bad, be sure to replace them with 1 watt resistors as original. These act as a fuse and open if the cathode current gets way high and prevents frying serious things like the plate choke.

Check the plate choke, the long choke that feeds high voltage to the tubes for continuity. On the bottom of the plate choke there is a capacitor to ground and another choke. Check this choke for continuity. These should both read close to 0 ohms.

Now turn the rig back on. Place the mode switch in CW.

Carefully check the voltage from the point on the PA board labeled SG. It should read around 200 +VDC in CW. Be very careful while doing this. Don't be real critical about this reading, we are looking for something completely dead.

Let us know what the results of these tests were.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 17, 2006 7:19 PM
Subject: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> What a great group of folks! I joined several months ago with the
> intention of posting right away, but got sidetracked. In the meantime I
> have greatly enjoyed reading all the posts and learning a little bit with
> each one. Now that I have some time to dedicate to my "problem rig", I
> thought I would solicit the help of the group.
>
> Last summer, I decided to get back into Ham radio after being away
from
> it for a while. I purchased a TS-820S from eBay and turns out it receives
> good, but doesn't transmit. I would like to try to troubleshoot and fix
it,
> but I am a novice at this sort of stuff and need help. Someone in a eHam
> forum suggested this trying this group for assistance, so here I am!
>
> So, the radio is a TS-820S. It receives fine, but when I try to tune
> it up (into a dummy load), the symptom I have is a 0 IP reading. I have
> tried adjusting the bias control in the back, but nothing changes. The SG
> switch is in the proper position and I have the plug in the external vfo
> socket in the back. If I switch the meter to the HF position, it reads
> about 850 volts. The tubes all light up and I have changed out the
12BY7A.
>
>
> Any suggestions on what my next steps should be would be appreciated.
> I have a volt/ohm meter but that's about all I have in the way of test
> equipment. I also have a pair of 6146A's, but not sure if they are a
> replacement for the S2001A's. Looks like I need the 6146B's or 6146W's.
>
> Thanks all for any help or advice you can give!
>
> Steve
> K7QHU
>

>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6469. Re: TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 19:09:24 UTC
From: KI4BUN / AAV4TP
Topic: 6399 Message: 6469

Walt,

Yes I'm running SSB. I have set the idle current to 60ma, and peaked the plate. Still blowing fuses. What can I do? Neutralize?

thanks

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> I assume that you were running SSB. for 117 v operation, the fuse should be
> a 6a fast blow type. For 234 volt operation it should be 4 amp. If you are
> running on 234 V please note that the rig is set up for 220 not 234 and some
> taps need to be changed or it may take off and blow fuses.
>
> Be sure that your idle current is no more than 60 ma. Be sure that the plate
> tune is peaked for maximum output or minimum plate current.
>
> I assume that you are running SSB. For RTTY output should be no more than
> 20 watts because RTTY is 100% duty cycle. The RTTY output can be reduced by
> reducing the mike gain.
>
> It is also possible that your final tubes are arcing over. There seems to be
> a lot of this going around lately with 6146W's.
>
> You might also check your neutralization although I doubt if this is likely
> to be the problem on 80 meters.
>
> Vy 73, Walt N9WB
> Good audio is an Amateur Radio tradition, not a crime.
>
> ----- Original Message -----
> From: "KI4BUN / AAV4TP" <pcsutton@i...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 13, 2006 2:31 PM
> Subject: [TS-520_820_530_830] TS830s Duty cycle problems
>
>

> > Greetings,
> >
> > I have a TS-830s which has new power supply caps and new 6146W's
> > installed.
> >
> > The other night I was passing a piece of traffic on an Army MARS
net
> > and after about a minute of transmitting: my fuse blew. I was
> > running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap
> > Titan.
> >
> > This has become a problem, as it isn't the first time. It only
> > happens after a period of time with the rig keyed. It takes a
minute
> > or minute and a half of transmitting to blow the fuse. Short
> > transmissions are fine.
> >
> > I'm stumped. Any suggestions?
> >
> > Thanks!
> >
> > 73
> >
> > Chris AAV4TP/KI4BUN
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

6470. Re: Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 19:24:43 UTC
From: Christiaan Jacobs
Topic: 6462 Message: 6470

Hi Walt and others

Hmm I've been tuning with full power as I've followed the instructions step by step and that little bit of info is not included in the manual. My tuner doesn't seem to tune as good as it first did. I was attributing that to my poor antenna location. However could I have smoked the tuner? Could I have damaged the finals? I can tune to 1:1 if I change frequency and play around a bit but I can't just choose a freq and get 1 to 1 all the time. I have played with the tuner and a MFJ -259 antenna analyzer to see what and where I can get to 1:1 SWR.

Thank you

Chris VK2ICJ

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> Be sure that you have the A-200 tuned for lowest SWR with the power reduced
> at least at first. Be sure the drive is peaked for max with the meter in the
> rig set to ALC. Then adjust the plate and tune for maximum watts. Turn the
> carrier control fully up and readjust for maximum watts. As long as you are
> not exceeding 250 Ma. you are fine. If you are running CW, reduce the
> carrier so the meter in the ALC position runs about mid scale.

6471. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 22:22:34 UTC
From: Walt Breining
Topic: 6457 Message: 6471

After discharging the high voltage, remove the plate caps from the tubes and measure ohms from the top of the Plate choke to the bottom of it. Then measure from the bottom of the plate choke where the other choke joins it to the other end of this choke. They should show 0 ohms, a short through both chokes.

But I see a serious problem with the reading that you read inadvertently to ground. I suspect that your ohm meter was reading in reverse through the diodes in the HV unit. But this should be checked out. You should not read anything close to a short 0 ohms from the top of the plate choke to chassis ground. You should double check this. The reading should be several hundred thousand ohms.

Before beginning any of the above, unplug the rig and after it has sat for about 10 minutes, short the point labeled 800 on the rectifier unit, not the HV unit to ground. Leave it shorted for about 5 minutes and then REMOVE the short. Now check for a short between the top of the plate choke and ground. Place the black lead of your ohm meter to the top of the plate choke and the red wire to ground. Yes I meant red to ground. See what you read. It may show a short for 15 to 30 seconds and slowly increase to a high resistance over 47k as the capacitors charge. OR it may show a high resistance to begin with. Now do the same thing with the leads reversed. You may show a low resistance in this position even after 30 seconds. If you read a short in only one direction, you are reading this short through the HV rectifiers and this would be OK. If you are getting a short or low resistance both directions, we need to look farther.

Assuming that this checks out OK, do you have a means of measuring 800 v safely? How high does the DC scale on your meter go? Unless you are very familiar with the dangers of doing this, do not try it until you answer these questions and I can give you a procedure. We may want to make a simple voltage divider to do this.

BTW, we are saying that you cannot get any idle current and looking for this fault only. Just for the record, place the SG switch in the off position and with the rig on, Key it on CW with the carrier control fully up and the multimeter on the rig to ALC. Turn the drive control. Do you get an indication on the ALC meter? the 12BY7 will have to be installed for this. The finals can be in or out.

Don't forget to place the SG switch in the on position after you are done.

Let me know what you find.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 12:24 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> HI Walt,
>
> Thanks for the suggestions. I have not yet tried the 6146A's in
radio.
> The S-2001's are still in the rig. Here are the results of the tests you
> suggested:
>
> 1. The measurement across the 10 ohm resistors read 4.8 ohms, so they seem
> okay.
> 2. The measurement across the chokes basically show zero ohms, so I think
> they are okay, but not confident I did the measurement correctly. I
> measured from the top of the chokes to ground.
> 3. The measurement at the SG point on the PA board reads 268 volts when
> setting the mode switch to CW.
>
> Thanks for your help and any additional suggestions you can give me.
>
> 73
>
> Steve
>
>
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Wednesday, January 18, 2006 3:29 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> Steve:
> I doubt if it is tubes if their filaments are lit. The 6146 A's will
work,
> but I think the S-2001s are best. After you get this sorted out, I'd put
the
> originals back in and give them a try. The Toshiba 12BY7's are best as
long
> as they are still good.
>
> Unplug the rig and discharge the high voltage.
>
> Inspect the two 10 ohm resistors from the tube cathodes to ground. R2 and

> R3. They are on the PA board. Look to see if they appear damaged. You
> should get an ohm reading of 5 ohms or slightly less from pin 1 of either
> tube to ground. If they are bad, be sure to replace them with 1 watt
> resistors as original. These act as a fuse and open if the cathode
current
> gets way high and prevents frying serious things like the plate choke.
>
> Check the plate choke, the long choke that feeds high voltage to the tubes
> for continuity. On the bottom of the plate choke there is a capacitor to
> ground and another choke. Check this choke for continuity. These should
both
> read close to 0 ohms.
>
> Now turn the rig back on. Place the mode switch in CW.
>
> Carefully check the voltage from the point on the PA board labeled SG. It
> should read around 200 +VDC in CW. Be very careful while doing this.
Don't
> be real critical about this reading, we are looking for something
completely
> dead.
>
> Let us know what the results of these tests were.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, January 17, 2006 7:19 PM
> Subject: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello All,
> >
> > What a great group of folks! I joined several months ago with the
> > intention of posting right away, but got sidetracked. In the meantime I
> > have greatly enjoyed reading all the posts and learning a little bit
with
> > each one. Now that I have some time to dedicate to my "problem rig", I
> > thought I would solicit the help of the group.
> >
> > Last summer, I decided to get back into Ham radio after being away
> from
> > it for a while. I purchased a TS-820S from eBay and turns out it
receives
> > good, but doesn't transmit. I would like to try to troubleshoot and fix
> it,
> > but I am a novice at this sort of stuff and need help. Someone in a

eHam
> > forum suggested this trying this group for assistance, so here I am!
> >
> > So, the radio is a TS-820S. It receives fine, but when I try to
tune
> > it up (into a dummy load), the symptom I have is a 0 IP reading. I have
> > tried adjusting the bias control in the back, but nothing changes. The
SG
> > switch is in the proper position and I have the plug in the external vfo
> > socket in the back. If I switch the meter to the HF position, it reads
> > about 850 volts. The tubes all light up and I have changed out the
> 12BY7A.
> >
> >
> > Any suggestions on what my next steps should be would be
appreciated.
> > I have a volt/ohm meter but that's about all I have in the way of test
> > equipment. I also have a pair of 6146A's, but not sure if they are a
> > replacement for the S2001A's. Looks like I need the 6146B's or 6146W's.
> >
> > Thanks all for any help or advice you can give!
> >
> > Steve
> > K7QHU
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830

> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6472. Re: [TS-520_820_530_830] Re: Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 22:39:05 UTC
From: Walt Breining
Topic: 6462 Message: 6472

I'll comment further, but if the rig tunes up to 100 watts on 20 meters and below and at least 85 watts on 10 meters, INTO A DUMMY LOAD, no tuner, then the finals are not the problem. You may want to try putting the dummy load on the tuner output and see if you can get a 1:1 that way with the tuner turned on. his would be a good test for the tuner.

Vy 73, Walt N9WB

----- Original Message -----
From: "Christiaan Jacobs" <v2rocketeer@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 2:24 PM
Subject: [TS-520_820_530_830] Re: Tuning CW power out probs

>
> Hi Walt and others
>
> Hmm I've been tuning with full power as I've followed the instructions step by step and
> that little bit of info is not included in the manual. My tuner doesn't seem to tune as
> good as it first did. I was attributing that to my poor antenna location. However could I
> have smoked the tuner? Could I have damaged the finals? I can tune to 1:1 if I change
> frequency and play around a bit but I can't just choose a freq and get 1 to 1 all the time.
> I have played with the tuner and a MFJ -259 antenna analyzer to see what and where I can
> get to 1:1 SWR.
>
> Thank you
>
> Chris VK2ICJ
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
> >
> > Be sure that you have the A-200 tuned for lowest SWR with the power reduced
> > at least at first. Be sure the drive is peaked for max with the meter in the
> > rig set to ALC. Then adjust the plate and tune for maximum watts. Turn

the
> > carrier control fully up and readjust for maximum watts. As long as you
are
> > not exceeding 250 Ma. you are fine. If you are running CW, reduce the
> > carrier so the meter in the ALC position runs about mid scale.
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6473. Re: [TS-520_820_530_830] Re: TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 22:39:53 UTC
From: Walt Breining
Topic: 6399 Message: 6473

Any ideas folks, N9WB
----- Original Message -----
From: "KI4BUN / AAV4TP" <pcsutton@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 2:09 PM
Subject: [TS-520_820_530_830] Re: TS830s Duty cycle problems

> Walt,
>
> Yes I'm running SSB. I have set the idle current to 60ma, and peaked
> the plate. Still blowing fuses. What can I do? Neutralize?
>
> thanks
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@n...> wrote:
> >
> > I assume that you were running SSB. for 117 v operation, the fuse
> should be
> > a 6a fast blow type. For 234 volt operation it should be 4 amp.
> If you are
> > running on 234 V please note that the rig is set up for 220 not
> 234 and some
> > taps need to be changed or it may take off and blow fuses.
> >
> > Be sure that your idle current is no more than 60 ma. Be sure that
> the plate
> > tune is peaked for maximum output or minimum plate current.
> >
> > I assume that you are running SSB. For RTTY output should be no
> more than
> > 20 watts because RTTY is 100% duty cycle. The RTTY output can be
> reduced by
> > reducing the mike gain.
> >
> > It is also possible that your final tubes are arcing over. There
> seems to be
> > a lot of this going around lately with 6146W's.
> >
> > You might also check your neutralization although I doubt if this
> is likely
> > to be the problem on 80 meters.
> >

> > Vy 73, Walt N9WB
> > Good audio is an Amateur Radio tradition, not a crime.
> >
> > ----- Original Message -----
> > From: "KI4BUN / AAV4TP" <pcsutton@i...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, January 13, 2006 2:31 PM
> > Subject: [TS-520_820_530_830] TS830s Duty cycle problems
> >
> >
> > > Greetings,
> > >
> > > I have a TS-830s which has new power supply caps and new 6146W's
> > > installed.
> > >
> > > The other night I was passing a piece of traffic on an Army MARS
> net
> > > and after about a minute of transmitting: my fuse blew. I was
> > > running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap
> > > Titan.
> > >
> > > This has become a problem, as it isn't the first time. It only
> > > happens after a period of time with the rig keyed. It takes a
> minute
> > > or minute and a half of transmitting to blow the fuse. Short
> > > transmissions are fine.
> > >
> > > I'm stumped. Any suggestions?
> > >
> > > Thanks!
> > >
> > > 73
> > >
> > > Chris AAV4TP/KI4BUN
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>

>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6474. Re: [TS-520_820_530_830] Re: TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-18 23:55:52 UTC
From: G Bay
Topic: 6399 Message: 6474

I would take a shot and put another/the old finals back in
and try it. Don't remember if thats been tried. Eyeball the tube
cage for arcing or bad connections (power off, discharged etc.)
good luck
WB3DSJ

Walt Breining <n9wb@...> wrote:
Any ideas folks, N9WB
----- Original Message -----
From: "KI4BUN / AAV4TP"

To:
Sent: Wednesday, January 18, 2006 2:09 PM
Subject: [TS-520_820_530_830] Re: TS830s Duty cycle problems

> Walt,
>
> Yes I'm running SSB. I have set the idle current to 60ma, and peaked
> the plate. Still blowing fuses. What can I do? Neutralize?
>
> thanks
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> wrote:
> >
> > I assume that you were running SSB. for 117 v operation, the fuse
> should be
> > a 6a fast blow type. For 234 volt operation it should be 4 amp.
> If you are
> > running on 234 V please note that the rig is set up for 220 not
> 234 and some
> > taps need to be changed or it may take off and blow fuses.
> >
> > Be sure that your idle current is no more than 60 ma. Be sure that
> the plate
> > tune is peaked for maximum output or minimum plate current.
> >
> > I assume that you are running SSB. For RTTY output should be no
> more than
> > 20 watts because RTTY is 100% duty cycle. The RTTY output can be
> reduced by
> > reducing the mike gain.
> >
> > It is also possible that your final tubes are arcing over. There

> seems to be
> > a lot of this going around lately with 6146W's.
> >
> > You might also check your neutralization although I doubt if this
> is likely
> > to be the problem on 80 meters.
> >
> > Vy 73, Walt N9WB
> > Good audio is an Amateur Radio tradition, not a crime.
> >
> > ----- Original Message -----
> > From: "KI4BUN / AAV4TP"

> > To:
> > Sent: Friday, January 13, 2006 2:31 PM
> > Subject: [TS-520_820_530_830] TS830s Duty cycle problems
> >
> >
> > > Greetings,
> > >
> > > I have a TS-830s which has new power supply caps and new 6146W's
> > > installed.
> > >
> > > The other night I was passing a piece of traffic on an Army MARS
> net
> > > and after about a minute of transmitting: my fuse blew. I was
> > > running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap
> > > Titan.
> > >
> > > This has become a problem, as it isn't the first time. It only
> > > happens after a period of time with the rig keyed. It takes a
> minute
> > > or minute and a half of transmitting to blow the fuse. Short
> > > transmissions are fine.
> > >
> > > I'm stumped. Any suggestions?
> > >
> > > Thanks!
> > >
> > > 73
> > >
> > > Chris AAV4TP/KI4BUN
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >

> > >
> > >
> > >
> > >
> > >
> > >
> >
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

Yahoo! Groups Links

Yahoo! Photos ☐ Showcase holiday pictures in hardcover
Photo Books. You design it and we☐ll bind it!

[Non-text portions of this message have been removed]

6475. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 00:49:52 UTC
From: Stephen Davis
Topic: 6457 Message: 6475

Hi Walt,

Following your latest instructions, here are the results:

1. Both plate chokes show 0 ohms when measured as you described.

2. Putting black lead to top of choke and red lead to ground, it shows a low resistance to start with, then builds to a high resistance (about 400k).

3 Putting the red lead to the top of the choke and the black lead to ground, it shows a resistance of about 400k. (somehow I must of goofed up my original measurement).

4. I hooked up the dummy load, heater switch on, set the SG switch to off, meter to ALC, carrier fully clockwise. Toggled rec/send switch to send and held down the cw key while adjusting the drive control through-out its range. No movement of the meter.

5. My voltmeter has a 1000 VDC plug position for the red lead and on the selector switch there is a 250/1000 vdc position. I would be extremely cautious making any high voltage measurements.

Thanks again for your help. It would really be neat if we can actually solve this problem!

73

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Wednesday, January 18, 2006 3:23 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

After discharging the high voltage, remove the plate caps from the tubes and measure ohms from the top of the Plate choke to the bottom of it. Then measure from the bottom of the plate choke where the other choke joins it to the other end of this choke. They should show 0 ohms, a short through both chokes.

But I see a serious problem with the reading that you read inadvertently to ground. I suspect that your ohm meter was reading in reverse through the diodes in the HV unit. But this should be checked out. You should not read anything close to a short 0 ohms from the top of the plate choke to chassis ground. You should double check this. The reading should be several hundred

thousand ohms.

Before beginning any of the above, unplug the rig and after it has sat for about 10 minutes, short the point labeled 800 on the rectifier unit, not the HV unit to ground. Leave it shorted for about 5 minutes and then REMOVE the short. Now check for a short between the top of the plate choke and ground. Place the black lead of your ohm meter to the top of the plate choke and the red wire to ground. Yes I meant red to ground. See what you read. It may show a short for 15 to 30 seconds and slowly increase to a high resistance over 47k as the capacitors charge. OR it may show a high resistance to begin with. Now do the same thing with the leads reversed. You may show a low resistance in this position even after 30 seconds. If you read a short in only one direction, you are reading this short through the HV rectifiers and this would be OK. If you are getting a short or low resistance both directions, we need to look farther.

Assuming that this checks out OK, do you have a means of measuring 800 v safely? How high does the DC scale on your meter go? Unless you are very familiar with the dangers of doing this, do not try it until you answer these questions and I can give you a procedure. We may want to make a simple voltage divider to do this.

BTW, we are saying that you cannot get any idle current and looking for this fault only. Just for the record, place the SG switch in the off position and with the rig on, Key it on CW with the carrier control fully up and the multimeter on the rig to ALC. Turn the drive control. Do you get an indication on the ALC meter? the 12BY7 will have to be installed for this. The finals can be in or out.

Don't forget to place the SG switch in the on position after you are done.

Let me know what you find.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 12:24 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> HI Walt,
>
> Thanks for the suggestions. I have not yet tried the 6146A's in
radio.
> The S-2001's are still in the rig. Here are the results of the tests you
> suggested:
>
> 1. The measurement across the 10 ohm resistors read 4.8 ohms, so they seem
> okay.
> 2. The measurement across the chokes basically show zero ohms, so I think
> they are okay, but not confident I did the measurement correctly. I

> measured from the top of the chokes to ground.
> 3. The measurement at the SG point on the PA board reads 268 volts when
> setting the mode switch to CW.
>
> Thanks for your help and any additional suggestions you can give me.
>
> 73
>
> Steve
>
>
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Wednesday, January 18, 2006 3:29 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> Steve:
> I doubt if it is tubes if their filaments are lit. The 6146 A's will
work,
> but I think the S-2001s are best. After you get this sorted out, I'd put
the
> originals back in and give them a try. The Toshiba 12BY7's are best as
long
> as they are still good.
>
> Unplug the rig and discharge the high voltage.
>
> Inspect the two 10 ohm resistors from the tube cathodes to ground. R2 and
> R3. They are on the PA board. Look to see if they appear damaged. You
> should get an ohm reading of 5 ohms or slightly less from pin 1 of either
> tube to ground. If they are bad, be sure to replace them with 1 watt
> resistors as original. These act as a fuse and open if the cathode
current
> gets way high and prevents frying serious things like the plate choke.
>
> Check the plate choke, the long choke that feeds high voltage to the tubes
> for continuity. On the bottom of the plate choke there is a capacitor to
> ground and another choke. Check this choke for continuity. These should
both
> read close to 0 ohms.
>
> Now turn the rig back on. Place the mode switch in CW.
>
> Carefully check the voltage from the point on the PA board labeled SG. It

> should read around 200 +VDC in CW. Be very careful while doing this.
Don't
> be real critical about this reading, we are looking for something
completely
> dead.
>
> Let us know what the results of these tests were.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, January 17, 2006 7:19 PM
> Subject: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello All,
> >
> > What a great group of folks! I joined several months ago with the
> > intention of posting right away, but got sidetracked. In the meantime I
> > have greatly enjoyed reading all the posts and learning a little bit
with
> > each one. Now that I have some time to dedicate to my "problem rig", I
> > thought I would solicit the help of the group.
> >
> > Last summer, I decided to get back into Ham radio after being away
> from
> > it for a while. I purchased a TS-820S from eBay and turns out it
receives
> > good, but doesn't transmit. I would like to try to troubleshoot and fix
> it,
> > but I am a novice at this sort of stuff and need help. Someone in a
eHam
> > forum suggested this trying this group for assistance, so here I am!
> >
> > So, the radio is a TS-820S. It receives fine, but when I try to
tune
> > it up (into a dummy load), the symptom I have is a 0 IP reading. I have
> > tried adjusting the bias control in the back, but nothing changes. The
SG
> > switch is in the proper position and I have the plug in the external vfo
> > socket in the back. If I switch the meter to the HF position, it reads
> > about 850 volts. The tubes all light up and I have changed out the
> 12BY7A.
> >
> >
> > Any suggestions on what my next steps should be would be
appreciated.

> > I have a volt/ohm meter but that's about all I have in the way of test
> > equipment. I also have a pair of 6146A's, but not sure if they are a
> > replacement for the S2001A's. Looks like I need the 6146B's or 6146W's.
> >
> > Thanks all for any help or advice you can give!
> >
> > Steve
> > K7QHU
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> -----
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> -----
>
>

>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6476. Re: [TS-520_820_530_830] Re: TS-530S, receive poor, no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 02:24:03 UTC
From: carboyhat@juno.com
Topic: 6423 Message: 6476

>I haven't had any time lately to work on the rig. Let us know what you
find out when you get your 530S back, John.

73 Bob, AA4AI

Morning Bob;
> I had the same thing with my 530S, one day it worked fine, the
>
> next there was hardly any audio. Funny you should mention the
> lightning strike, here in Long Island, this time of the year, that
> was unheard of, that has since changed, but between the time the
> radio worked and when it lost audio we had lightning, not near by
> that I know of. Same symptoms, tuned up just fine, the meter worked
>
> fine in the tune up,regular power out but no deflection on the meter
>
> in receive at all. The only time I saw movement was when my next
> door neighbor came on the air and even then the audio wasn't that
> great. I took a quick look but decided to send the radio out for
> service, I've had it since it first came out, sorry I can't offer
> more. John K2IZ
>
>

6477. Pan Adapter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 04:24:05 UTC
From: Bill
Topic: 6477 Message: 6477

What does the "pan adapter" do for the SM-220? Thanks - Bill

6478. Re: [TS-520_820_530_830] Pan Adapter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 05:11:49 UTC
From: Alan Wolke
Topic: 6477 Message: 6478

It allows you to use the band-scope feature of the SM-220. This function is basically a mini spectrum analyzer that graphically shows you where activity is on the band. Its basically the same thing as the spectrum scope built into rigs like the IC-756PRO.

There are two pan-adaptor models available. The BS-5 is for the TS-520/530 rigs (3.395MHz IF), and the BS-8 is for the TS-820/830 (8.830MHz IF) series rigs. Many other later Kenwood rigs use the 8.83MHz IF and have the required wideband output that can be used with this combination. The TS-870S is an example that can be used with the SM-220/BS-8 combo.

73,
Alan
W2AEW

Bill wrote:

> What does the "pan adapter" do for the SM-220? Thanks - Bill
>
>

6479. Re: Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 12:05:48 UTC
From: Christiaan Jacobs
Topic: 6462 Message: 6479

Hi Walt

Using 21.3 as suggested above the Setup was this.

Rig grounded and tuned to 21.3mhz
Rig coax to the AT200 input (AT200 also grounded)
Dummy load connected to Ant2

Tuned up with the tuner in the "through" position no dramas.
When I turned the Car down to 250ma via the IP meter I was between 90 and 100 closer to 100 watts. When I reduced the carrier to 200ma I was at 50watts

I then switched the AT-200 to "ANT2 tuned". I was able to adjust SWR to nothing on the meter just fine with the AT-200.

I didn't do any other testing as I'm about to fall asleep hihi.

73

Chris VK2ICJ

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> I'll comment further, but if the rig tunes up to 100 watts on 20 meters and
> below and at least 85 watts on 10 meters, INTO A DUMMY LOAD, no tuner, then
> the finals are not the problem. You may want to try putting the dummy load
> on the tuner output and see if you can get a 1:1 that way with the tuner
> turned on. his would be a good test for the tuner.
>
> Vy 73, Walt N9WB
>

6480. Re: [TS-520_820_530_830] Re: Tuning CW power out probs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 12:45:43 UTC
From: Walt Breining
Topic: 6462 Message: 6480

I do not think that you have bad tubes.
I think that your watt meter may be reading low.
You may try some other watt meters. A Bird 43 or a Drake W4 are usually fairly accurate. the Bird is usually the standard if you can borrow one.
Everything seems to be OK except possibly the antenna. It may have values outside the range of your tuner on some frequencies. Sometimes you have to play with the tuner a bit to get the exact null point.
If you told me, I forgot. What kind of antenna are you using?
Vy 73, Walt N9WB

----- Original Message -----
From: "Christiaan Jacobs" <v2rocketeer@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, January 19, 2006 7:05 AM
Subject: [TS-520_820_530_830] Re: Tuning CW power out probs

> Hi Walt
>
> Using 21.3 as suggested above the Setup was this.
>
> Rig grounded and tuned to 21.3mhz
> Rig coax to the AT200 input (AT200 also grounded)
> Dummy load connected to Ant2
>
> Tuned up with the tuner in the "through" position no dramas.
> When I turned the Car down to 250ma via the IP meter I was between 90 and 100 closer to
> 100 watts. When I reduced the carrier to 200ma I was at 50watts
>
> I then switched the AT-200 to "ANT2 tuned". I was able to adjust SWR to nothing on the
> meter just fine with the AT-200.
>
> I didn't do any other testing as I'm about to fall asleep hihi.
>
> 73
>
> Chris VK2ICJ
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
> >

> > I'll comment further, but if the rig tunes up to 100 watts on 20 meters
and
> > below and at least 85 watts on 10 meters, INTO A DUMMY LOAD, no tuner,
then
> > the finals are not the problem. You may want to try putting the dummy
load
> > on the tuner output and see if you can get a 1:1 that way with the tuner
> > turned on. his would be a good test for the tuner.
> >
> > Vy 73, Walt N9WB
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6481. RE: [TS-520_820_530_830] Re: TS830s Duty cycle problems

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 13:21:28 UTC
From: Hauser, Ron M.
Topic: 6399 Message: 6481

I blew several fuses on my TS820 until I got in there and replaced the weak cathode resistors. A guess, FWIW... But easy to check the values to see if they are still solid. Worth a check anyway.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Wednesday, January 18, 2006 4:40 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS830s Duty cycle problems

Any ideas folks, N9WB
----- Original Message -----
From: "KI4BUN / AAV4TP" <pcsutton@insightbb.com>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 2:09 PM
Subject: [TS-520_820_530_830] Re: TS830s Duty cycle problems

> Walt,
>
> Yes I'm running SSB. I have set the idle current to 60ma, and peaked
> the plate. Still blowing fuses. What can I do? Neutralize?
>
> thanks
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@n...> wrote:
> >
> > I assume that you were running SSB. for 117 v operation, the fuse
> should be
> > a 6a fast blow type. For 234 volt operation it should be 4 amp.
> If you are
> > running on 234 V please note that the rig is set up for 220 not
> 234 and some
> > taps need to be changed or it may take off and blow fuses.
> >
> > Be sure that your idle current is no more than 60 ma. Be sure that
> the plate
> > tune is peaked for maximum output or minimum plate current.
> >

> > I assume that you are running SSB. For RTTY output should be no
> more than
> > 20 watts because RTTY is 100% duty cycle. The RTTY output can be
> reduced by
> > reducing the mike gain.
> >
> > It is also possible that your final tubes are arcing over. There
> seems to be
> > a lot of this going around lately with 6146W's.
> >
> > You might also check your neutralization although I doubt if this
> is likely
> > to be the problem on 80 meters.
> >
> > Vy 73, Walt N9WB
> > Good audio is an Amateur Radio tradition, not a crime.
> >
> > ----- Original Message -----
> > From: "KI4BUN / AAV4TP" <pcsutton@i...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, January 13, 2006 2:31 PM
> > Subject: [TS-520_820_530_830] TS830s Duty cycle problems
> >
> >
> > > Greetings,
> > >
> > > I have a TS-830s which has new power supply caps and new 6146W's
> > > installed.
> > >
> > > The other night I was passing a piece of traffic on an Army MARS
> net
> > > and after about a minute of transmitting: my fuse blew. I was
> > > running about 100 watts at a 1.5:1 SWR into a verticle dipole Gap
> > > Titan.
> > >
> > > This has become a problem, as it isn't the first time. It only
> > > happens after a period of time with the rig keyed. It takes a
> minute
> > > or minute and a half of transmitting to blow the fuse. Short
> > > transmissions are fine.
> > >
> > > I'm stumped. Any suggestions?
> > >
> > > Thanks!
> > >
> > > 73
> > >
> > > Chris AAV4TP/KI4BUN
> > >
> > >

> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

Yahoo! Groups Links

6482. TS820 CW XMIT offset adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 14:53:08 UTC
From: compdsgnr
Topic: 6482 Message: 6482

Hello all. I'm new here, but not new to these great rigs. This group is a great source of info.

I recently inherited my Dad's 820S. I've noticed the RCV to XMIT offset in CW mode has drifted up to ~1080 Hz. This should nominally be ~800Hz.

I know on the TS830 there is an adjustment on the VFO module (L4) for setting this.

I haven't been able to locate a service manual for the 820. I assume there is a similar adjustment on the 820 VFO.

Can anyone with a manual help me locate the adjustment ?

Also, is there an electronic version of the 820 service manual available online ?

Tnx

Tom / N1BSQ

6483. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-19 19:42:12 UTC
From: Walt Breining
Topic: 6457 Message: 6483

That would indicate that you are not getting drive. And if I understand correctly you are also not getting any idle current. You do not need drive to get idle current.

Let's double check this. Mode on USB or LSB, all tubes installed, SG on mike gain down, Filament switch on, Meter in IP. Key rig with send switch and watch the IP meter as you change the Bias control in the back. At one extreme the tubes should draw a lot of current. At the other extreme the tubes will draw little or no current. Do you get a reading on the meter in any bias position. If you do it should be set for 60 MA.

If you do not get a reading, do you notice a lot of heat coming from the final area with the bias control at one extreme or the other? If the bias was working but the meter was not, the tubes would get very hot while in transmit with the bias control at one extreme but not the other. If they do get very hot, unkey so you do not damage the tubes.

Now, check again that all tubes filaments are lighted including the 12BY7. Check this out in a dark room. Be careful and don't fumble into the high voltage!

If you get no idle current, no excess heat that changes with the bias control, and all tubes are lighted, next try removing the relays and inspecting the contacts. Look for burned contacts. Clean them. Remove only 1 relay at a time, as they are not the same although they look alike.

Now I may be making a fool of myself suggesting the relays, but in the limited time I had this afternoon, and with the very poor diagram I have, it seemed that the power source for the bias goes through Q5 on the RF board and comes to Q5 through a relay. I did not have the time to check this out thoroughly at this time, but it might be worth checking the relays. We are looking for a contact that is not conducting on transmit. Be careful when removing the covers on these relays, they are not available any more.

Tell us what you find out and I will try to get a better diagram. I have one on hard copy, but it is not here.

BTW, the rig should operate with the CW key unpluged.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 7:49 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hi Walt,
>
> Following your latest instructions, here are the results:
>
> 1. Both plate chokes show 0 ohms when measured as you described.
>
> 2. Putting black lead to top of choke and red lead to ground, it shows a
low
> resistance to start with, then builds to a high resistance (about 400k).
>
> 3 Putting the red lead to the top of the choke and the black lead to
ground,
> it shows a resistance of about 400k. (somehow I must of goofed up my
> original measurement).
>
> 4. I hooked up the dummy load, heater switch on, set the SG switch to off,
> meter to ALC, carrier fully clockwise. Toggled rec/send switch to send
and
> held down the cw key while adjusting the drive control through-out its
> range. No movement of the meter.
>
> 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> selector switch there is a 250/1000 vdc position. I would be extremely
> cautious making any high voltage measurements.
>
> Thanks again for your help. It would really be neat if we can actually
> solve this problem!
>
> 73
>
> Steve K7QHU
>

6484. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 03:42:52 UTC
From: Stephen Davis
Topic: 6457 Message: 6484

Hi Walt,

You are correct, I am not getting any idle current. All tube filaments are lit. I tried rotating the bias control in the back and keying the send switch as suggested. I did not notice excessive heating at either end of the rotation.

I have removed the relay housing (Omron type MH4P) from the relay board, but having trouble getting the plastic cover off. I am being very gentle so as not to break it, but not haveing much success. Will continue to try. In the meantime, just eyeballing the contacts, the contacts that are in the open position look very clean. I was looking a the schematic (a somewhat fuzzy copy) to try and determine what voltage is used across the coil to open/close the relay, but I could not tell. I was thinking this could be a way to test to make sure at least the relay(s) are opening and closing. If I can determine the voltage, is this a legitimate test? I also measured the resistance across the coil and it was around 380 ohms, which is the resistance stamped on it, so at least I know the coil is not open or shorted.

I will keep trying to get the plastic case off so I can actually clean the contacts. Just wanted to update you on my progress.

Thanks

Steve
K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Thursday, January 19, 2006 12:42 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

That would indicate that you are not getting drive. And if I understand correctly you are also not getting any idle current. You do not need drive to get idle current.

Let's double check this. Mode on USB or LSB, all tubes installed, SG on mike gain down, Filament switch on, Meter in IP. Key rig with send switch and watch the IP meter as you change the Bias control in the back. At one extreme the tubes should draw a lot of current. At the other extreme the tubes will draw little or no current. Do you get a reading on the meter in any bias position. If you do it should be set for 60 MA.

If you do not get a reading, do you notice a lot of heat coming from the final area with the bias control at one extreme or the other? If the bias was working but the meter was not, the tubes would get very hot while in transmit with the bias control at one extreme but not the other. If they do get very hot, unkey so you do not damage the tubes.

Now, check again that all tubes filaments are lighted including the 12BY7. Check this out in a dark room. Be careful and don't fumble into the high voltage!

If you get no idle current, no excess heat that changes with the bias control, and all tubes are lighted, next try removing the relays and inspecting the contacts. Look for burned contacts. Clean them. Remove only 1 relay at a time, as they are not the same although they look alike.

Now I may be making a fool of myself suggesting the relays, but in the limited time I had this afternoon, and with the very poor diagram I have, it seemed that the power source for the bias goes through Q5 on the RF board and comes to Q5 through a relay. I did not have the time to check this out thoroughly at this time, but it might be worth checking the relays. We are looking for a contact that is not conducting on transmit. Be careful when removing the covers on these relays, they are not available any more.

Tell us what you find out and I will try to get a better diagram. I have one on hard copy, but it is not here.

BTW, the rig should operate with the CW key unpluged.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 7:49 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hi Walt,
>
> Following your latest instructions, here are the results:
>
> 1. Both plate chokes show 0 ohms when measured as you described.
>
> 2. Putting black lead to top of choke and red lead to ground, it shows a
low
> resistance to start with, then builds to a high resistance (about 400k).
>
> 3 Putting the red lead to the top of the choke and the black lead to
ground,
> it shows a resistance of about 400k. (somehow I must of goofed up my
> original measurement).
>
> 4. I hooked up the dummy load, heater switch on, set the SG switch to off,
> meter to ALC, carrier fully clockwise. Toggled rec/send switch to send

and
> held down the cw key while adjusting the drive control through-out its
> range. No movement of the meter.
>
> 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> selector switch there is a 250/1000 vdc position. I would be extremely
> cautious making any high voltage measurements.
>
> Thanks again for your help. It would really be neat if we can actually
> solve this problem!
>
> 73
>
> Steve K7QHU
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig
=NStjWgsFtXmQaGrYd1LT5w> radio Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.s
ig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+ho
bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101
&.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=10
1&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6485. RE: TS820 CW XMIT offset adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 03:38:34 UTC
From: pjcoombs@frontiernet.net
Topic: 6482 Message: 6485

Tom,

If you have a manual, take a look at Fig. 19 CAR UNIT. Locate in the CAR-1 UNIT, VR1, and in the CAR-2 UNIT, T1. I managed to adjust the CW offset by fiddling with these two components. Make sure you mark the position of each, and keep track of how much adjustment you make, just incase you need to put it back to where you found it. Bill or Walt may know of a more productive way of making this adjustment without fouling up something? There is a service manual available on-line. <ftp://bama.sbc.edu/downloads/kenwood/ts820s/> Good luck, and have fun. -jay, kb9wwq

>Message: 6
> Date: Thu, 19 Jan 2006 14:53:08 -0000
> From: "compdsgnr" <baillio@...>
>Subject: TS820 CW XMIT offset adjustment
>
>Hello all. I'm new here, but not new to these great rigs. This group is
>a great source of info.
>
>I recently inherited my Dad's 820S. I've noticed the RCV to XMIT offset
>in CW mode has drifted up to ~1080 Hz. This should nominally be ~800Hz.
>
>I know on the TS830 there is an adjustment on the VFO module (L4) for
>setting this.
>
>I haven't been able to locate a service manual for the 820. I assume
>there is a similar adjustment on the 820 VFO.
>
>Can anyone with a manual help me locate the adjustment ?
>
>Also, is there an electronic version of the 820 service manual
>available online ?
>
>
>Tnx
>
>Tom / N1BSQ
>
>

6486. Re: Pan Adapter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 04:42:57 UTC
From: Bill
Topic: 6477 Message: 6486

Thank you Alan. That gave me some good info and sounds like a piece of equipment I would eventually like to add (if I can find one reasonable). Now - what is the difference between the VFO-230 and the 240. I found lots of listings and pictures for the 230, but virtually nothing for the 240. Thanks - Bill

--- In TS-520_820_530_830@yahoogroups.com, Alan Wolke <w2aew@a...> wrote:
>
> It allows you to use the band-scope feature of the SM-220. This
> function is basically a mini spectrum analyzer that graphically shows
> you where activity is on the band. Its basically the same thing as the
> spectrum scope built into rigs like the IC-756PRO.
>
> There are two pan-adaptor models available. The BS-5 is for the
> TS-520/530 rigs (3.395MHz IF), and the BS-8 is for the TS-820/830
> (8.830MHz IF) series rigs. Many other later Kenwood rigs use the
> 8.83MHz IF and have the required wideband output that can be used with
> this combination. The TS-870S is an example that can be used with the
> SM-220/BS-8 combo.
>
> 73,
> Alan
> W2AEW
>
>
> Bill wrote:
>
> > What does the "pan adapter" do for the SM-220? Thanks - Bill
> > >
> > >
>

6487. Re: [TS-520_820_530_830] Re: Pan Adapter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 10:02:16 UTC
From: Ken Winterling
Topic: 6477 Message: 6487

Bill,

Try these links for pictures and brief info on the VFO-240 and VFO-230:
http://www.universal-radio.com/catalog/hamhf/vfo240.html
http://www.universal-radio.com/catalog/hamhf/vfo230.html

The main differences are that the VFO-240 has only an analog dial and
no memories, both features of the VFO-230.

Ken, WA2LBI

On 1/19/06, Bill <wb5dx@...> wrote:
> Thank you Alan. That gave me some good info and sounds like a piece
> of equipment I would eventually like to add (if I can find one
> reasonable). Now - what is the difference between the VFO-230 and
> the 240. I found lots of listings and pictures for the 230, but
> virtually nothing for the 240. Thanks - Bill
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Alan Wolke <w2aew@a...>
> wrote:
> >
> > It allows you to use the band-scope feature of the SM-220. This
> > function is basically a mini spectrum analyzer that graphically
> shows
> > you where activity is on the band. Its basically the same thing
> as the
> > spectrum scope built into rigs like the IC-756PRO.
> >
> > There are two pan-adaptor models available. The BS-5 is for the
> > TS-520/530 rigs (3.395MHz IF), and the BS-8 is for the TS-820/830
> > (8.830MHz IF) series rigs. Many other later Kenwood rigs use the
> > 8.83MHz IF and have the required wideband output that can be used
> with
> > this combination. The TS-870S is an example that can be used with
> the
> > SM-220/BS-8 combo.
> >
> > 73,
> > Alan
> > W2AEW
> >
> >
> > Bill wrote:
> >
> > > What does the "pan adapter" do for the SM-220? Thanks - Bill

> > >
> > >
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6488. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 10:21:37 UTC
From: Richard Harris
Topic: 6457 Message: 6488

Walt,

Another useful way of checking whether the PA heaters are being powered is to see whether the meter light dims slightly when the heater switch is turned from off to on. An advantage of this method is that you can do this with the covers on.

I deduced that the PA heaters of my TS-530S were not receiving power by this means. The problem was a poor joint on one of the tube bases - these joints get considerable temperature cycling and so may be prone to fracture.

Richard G3OTK

At 14:42 19/01/2006 -0500, you wrote:
>That would indicate that you are not getting drive. And if I understand
>correctly you are also not getting any idle current. You do not need drive
>to get idle current.
>
>Let's double check this. Mode on USB or LSB, all tubes installed, SG on mike
>gain down, Filament switch on, Meter in IP. Key rig with send switch and
>watch the IP meter as you change the Bias control in the back. At one
>extreme the tubes should draw a lot of current. At the other extreme the
>tubes will draw little or no current. Do you get a reading on the meter in
>any bias position. If you do it should be set for 60 MA.
>
>If you do not get a reading, do you notice a lot of heat coming from the
>final area with the bias control at one extreme or the other? If the bias
>was working but the meter was not, the tubes would get very hot while in
>transmit with the bias control at one extreme but not the other. If they do
>get very hot, unkey so you do not damage the tubes.
>
>Now, check again that all tubes filaments are lighted including the 12BY7.
>Check this out in a dark room. Be careful and don't fumble into the high
>voltage!
>
>If you get no idle current, no excess heat that changes with the bias
>control, and all tubes are lighted, next try removing the relays and
>inspecting the contacts. Look for burned contacts. Clean them. Remove only 1
>relay at a time, as they are not the same although they look alike.
>
>Now I may be making a fool of myself suggesting the relays, but in the
>limited time I had this afternoon, and with the very poor diagram I have, it
>seemed that the power source for the bias goes through Q5 on the RF board
>and comes to Q5 through a relay. I did not have the time to check this out
>thoroughly at this time, but it might be worth checking the relays. We are
>looking for a contact that is not conducting on transmit. Be careful when

>removing the covers on these relays, they are not available any more.
>
>
>Tell us what you find out and I will try to get a better diagram. I have
>one on hard copy, but it is not here.
>
>BTW, the rig should operate with the CW key unpluged.
>
>Vy 73, Walt N9WB
>
>
>
>----- Original Message -----
>From: "Stephen Davis" <sdavis@...>
>To: <TS-520_820_530_830@yahoogroups.com>
>Sent: Wednesday, January 18, 2006 7:49 PM
>Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hi Walt,
> >
> > Following your latest instructions, here are the results:
> >
> > 1. Both plate chokes show 0 ohms when measured as you described.
> >
> > 2. Putting black lead to top of choke and red lead to ground, it shows a
>low
> > resistance to start with, then builds to a high resistance (about 400k).
> >
> > 3 Putting the red lead to the top of the choke and the black lead to
>ground,
> > it shows a resistance of about 400k. (somehow I must of goofed up my
> > original measurement).
> >
> > 4. I hooked up the dummy load, heater switch on, set the SG switch to off,
> > meter to ALC, carrier fully clockwise. Toggled rec/send switch to send
>and
> > held down the cw key while adjusting the drive control through-out its
> > range. No movement of the meter.
> >
> > 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> > selector switch there is a 250/1000 vdc position. I would be extremely
> > cautious making any high voltage measurements.
> >
> > Thanks again for your help. It would really be neat if we can actually
> > solve this problem!
> >
> > 73
> >
> > Steve K7QHU

> >
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,

Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6489. Re: TS820 CW XMIT offset adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 15:10:14 UTC
From: compdsgnr
Topic: 6482 Message: 6489

Thanks Jay !

I did locate a service manual on mods.dk.
The manual specifies the adjustment procedure on CAR1 and CAR2 for this. Looks simple enough. I'll try it tonight.

Also looks like I need to align the coil pack. Very low drive on 28Mhz. Tubes should be good. Hope this does it.

Tnx
Tom / N1BSQ

--- In TS-520_820_530_830@yahoogroups.com, pjcoombs@f... wrote:
>
> Tom,
>
> If you have a manual, take a look at Fig. 19 CAR UNIT. Locate in the CAR-1
> UNIT, VR1, and in the CAR-2 UNIT, T1. I managed to adjust the CW offset by
> fiddling with these two components. Make sure you mark the position of
> each, and keep track of how much adjustment you make, just incase you need
> to put it back to where you found it. Bill or Walt may know of a more
> productive way of making this adjustment without fouling up something?
> There is a service manual available on-line.
> <ftp://bama.sbc.edu/downloads/kenwood/ts820s/> Good luck, and have fun.
> -jay, kb9wwq
>
> >Message: 6
> > Date: Thu, 19 Jan 2006 14:53:08 -0000
> > From: "compdsgnr" <baillio@m...>
> >Subject: TS820 CW XMIT offset adjustment
> >
> >Hello all. I'm new here, but not new to these great rigs. This group is
> >a great source of info.
> >
> >I recently inherited my Dad's 820S. I've noticed the RCV to XMIT offset
> >in CW mode has drifted up to ~1080 Hz. This should nominally be ~800Hz.

> >
> >I know on the TS830 there is an adjustment on the VFO module (L4)
for
> >setting this.
> >
> >I haven't been able to locate a service manual for the 820. I
assume
> >there is a similar adjustment on the 820 VFO.
> >
> >Can anyone with a manual help me locate the adjustment ?
> >
> >Also, is there an electronic version of the 820 service manual
> >available online ?
> >
> >
> >Tnx
> >
> >Tom / N1BSQ
> >
> >
>

6490. Re: [TS-520_820_530_830] Re: Pan Adapter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 14:14:31 UTC
From: Paul Manuel
Topic: 6477 Message: 6490

--- Ken Winterling <wa2lbi@...> wrote:
> The main differences are that the VFO-240 has only an analog >dial and
no memories, both features of the VFO-230.

I "think" (someone correct me if I am wrong) that the 240 is an analog VFO
that tunes by variable capacitor. The 230 is a PLL oscillator that varies
frequency by an encoder.

I had a 240, but I never had a 230.
73,
Paul K4PDM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6491. Re: [TS-520_820_530_830] vfo 230/240/120

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 21:51:42 UTC
From: Kay Groß
Topic: 6491 Message: 6491

Hello all in the group,

Paul you are correct,the vfo240 is an analog vfo and
the vfo230 a digital vfo with 20hz steps.
But the best thing is there is a mod, that changes the
dial per 360 degrees from 25kHz to 6.3kHz so
you could use the vfo230 for excellent cw tuning.
By the way the vfo 120 is the same as the vfo240, but
has the cabinet which matches with the TS120/130.
So there is only a different outfit but the same thing inside.
The vfo 230 should be the first choice if possible, the
second choice should be a not so wellknown DFC-230,
also 20Hz steps but made for mobile and is able to be used with a MC60
because you could do up/down steps with your microphone.Then last but not
least a vfo240 or vfo120 is good for split work.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

6492. Re: [TS-520_820_530_830] vfo 230/240/120

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-20 21:59:49 UTC
From: Paul Manuel
Topic: 6491 Message: 6492

--- Kay Gro? <kaygross@...> wrote:
>> The vfo 230 should be the first choice if possible, the
> second choice should be a not so wellknown DFC-230,
> also 20Hz steps but made for mobile and is able to be used >with a MC60
because you could do up/down steps with your >microphone.

Thanks Kay,
I forgot about the DFC-230. I had one with my TS-830S, in addition to the
VFO-240. That was a fun station to play with!
73,
Paul K4PDM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6493. TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-21 00:32:54 UTC
From: kc2nzf
Topic: 6493 Message: 6493

Hello to all, I'm a new member and owner of a TS520s rig. A friend of mine and I are having a debate about the proper tuning of the drive. In the manual it states to "peak the ALC reading (maximum meter deflection) with the drive control". My question is...do you peak the adjustment to the top of the ALC portion of the meter,(which is at approx 1 oclock), or do you make the adjustment for the full meter deflection outside of the ALC portion of the meter? approx 2 oclock or +40db. I hope this isn't a question that has been asked here many times before, if so, I 'm sorry.
Thanks for your input. I look forward to learning more about this rig by using this group.
73s
Mike
KC2NZF

6494. Re: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-21 01:07:31 UTC
From: Harold E Vine III
Topic: 6493 Message: 6494

I always tuned mine for maximum "meter" deflection, regardless of where the actual "knob" position was.

H3

Harold
kd1zx/b 28.295 Mhz CW (morse code)
http://mysite.verizon.net/vze4zk5x/<http://mysite.verizon.net/vze4zk5x/>
http://www.semarg.ath.cx/kd1zx<http://www.semarg.ath.cx/kd1zx>
----- Original Message -----
From: kc2nzf<mailto:KC2NZF@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 20, 2006 7:32 PM
Subject: [TS-520_820_530_830] TS520S Tuning proceedure

Hello to all, I'm a new member and owner of a TS520s rig. A friend of
mine and I are having a debate about the proper tuning of the drive. In
the manual it states to "peak the ALC reading (maximum meter
deflection) with the drive control". My question is...do you peak the
adjustment to the top of the ALC portion of the meter,(which is at
approx 1 oclock), or do you make the adjustment for the full meter
deflection outside of the ALC portion of the meter? approx 2 oclock or
+40db. I hope this isn't a question that has been asked here many times
before, if so, I 'm sorry.
Thanks for your input. I look forward to learning more about this rig
by using this group.
73s
Mike
KC2NZF

YAHOO! GROUPS LINKS

a.. Visit your group
"TS-520_820_530_830<http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service<http://docs.yahoo.com/info/terms/>.

[Non-text portions of this message have been removed]

6495. Re: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-21 01:15:34 UTC
From: Kevin der Kinderen
Topic: 6493 Message: 6495

Same here. I peak for max meter deflection and seems to work well every time.

73,
Kev - K4VD

On 1/21/06, Harold E Vine III <harold.vine@...> wrote:
> I always tuned mine for maximum "meter" deflection, regardless of where the actual "knob" position was.
>
>
> H3
>
> Harold
> kd1zx/b 28.295 Mhz CW (morse code)
> http://mysite.verizon.net/vze4zk5x/<http://mysite.verizon.net/vze4zk5x/>
> http://www.semarg.ath.cx/kd1zx<http://www.semarg.ath.cx/kd1zx>

6496. TS-530s + PC-1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 02:00:28 UTC
From: Bob M
Topic: 6496 Message: 6496

G'day from Down Under,
I'm thinking about looking at SSTV
and was wondering If the PC-1 Phone patch can
be adapted as a Sound card interface.

If so what if any are the best mods for it.
Once I dip my finger in I*'ll probably pick
up a RigBlaster so I can look at the VHF/UHF
comming from ISS and suitsat.

I just want to be sure I will not be
overloading either My PC or TS-530s.

Thanks for any Help.....

Regards
Bob M. VK4HAY

6497. TS-520 tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 03:30:36 UTC
From: wayneg
Topic: 6497 Message: 6497

Bought a TS-520 yesterday and have used tube gear in many moons.
It does load with no problem but not according to the manual. On my
manual Table 3. shows a Summery of Transmitter Tuning Procedures
which is a four step procedure. The first three steps are fine but
on the four step while Mode Switch is in CW position, Meter Switch RF
position Stand-by Switch Send and final procedure says "Peak RF
output by alternately adjusting the Plate and Load Controls. When I
put the switch to Send absolutely nothing on the rig meter or my
Autek meter.
I had the Carrier Control on number 5 position. Have a key connected
and when I depress the key can peak the Load and Plate Controls with
no problem and loads beautiful. This is on all bands. The Heater
Switch is on as well as in Vox Position. Know I have to be
overlooking something very simple but just can't see it. The rig is
very stable as power doesn't fluctuate no matter how long the CW QSO
is. The receiver is as sensitive as my Icom 746 and actually could
even be better!

Any ideas or suggestions would certainly be welcomed.

Thanks.
Wayne, NM3B

6498. Re: [TS-520_820_530_830] TS-520 tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 04:19:30 UTC
From: Your Name
Topic: 6497 Message: 6498

> Wayne, the reason is because the key is plugged in. Remove the key and it should load as stated in manual. 73 Bob AA8PP
>
>
> Bought a TS-520 yesterday and have used tube gear in many moons.
> It does load with no problem but not according to the manual. On my
> manual Table 3. shows a Summery of Transmitter Tuning Procedures
> which is a four step procedure. The first three steps are fine but
> on the four step while Mode Switch is in CW position, Meter Switch RF
> position Stand-by Switch Send and final procedure says "Peak RF
> output by alternately adjusting the Plate and Load Controls. When I
> put the switch to Send absolutely nothing on the rig meter or my
> Autek meter.
> I had the Carrier Control on number 5 position. Have a key connected
> and when I depress the key can peak the Load and Plate Controls with
> no problem and loads beautiful. This is on all bands. The Heater
> Switch is on as well as in Vox Position. Know I have to be
> overlooking something very simple but just can't see it. The rig is
> very stable as power doesn't fluctuate no matter how long the CW QSO
> is. The receiver is as sensitive as my Icom 746 and actually could
> even be better!
>
> Any ideas or suggestions would certainly be welcomed.
>
> Thanks.
> Wayne, NM3B
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> --
> This message scanned for viruses by CoreComm
>

--
CoreComm Webmail.
http://home.core.com

[Non-text portions of this message have been removed]

6499. TS-820S Low RX Sensitivity (I Killed It!)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 04:37:15 UTC
From: Dave Franklin
Topic: 6499 Message: 6499

I have two parallel antennas that are close together. Today I loaded up on one while the 820 was powered up on the other. When I went back to the 820 the receive was way down. The sensitivity is down about 50dB.

Is there any protection in the 820S for receive overload? I was hoping that there was something to protect the RF amp but I do not see anything on the schematic that looks like a fuse etc.

I have a copy of the service manual and a signal generator. Plan to check further tomorrow.

Any help or advise would br greatly appreciated.

Thanks,
Dave Franklin
KI4JSN

6500. Re: TS-520 tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 04:58:40 UTC
From: wayneg
Topic: 6497 Message: 6500

--- In TS-520_820_530_830@yahoogroups.com, "Your Name"
<hughes56@c...> wrote:
>
> > Wayne, the reason is because the key is plugged in. Remove the
key and it should load as stated in manual. 73 Bob AA8PP
> >
> >
> > Bought a TS-520 yesterday and have used tube gear in many moons.
> > It does load with no problem but not according to the manual. On
my
> > manual Table 3. shows a Summery of Transmitter Tuning Procedures
> > which is a four step procedure. The first three steps are fine
but
> > on the four step while Mode Switch is in CW position, Meter
Switch RF
> > position Stand-by Switch Send and final procedure says "Peak RF
> > output by alternately adjusting the Plate and Load Controls.
When I
> > put the switch to Send absolutely nothing on the rig meter or my
> > Autek meter.
> > I had the Carrier Control on number 5 position. Have a key
connected
> > and when I depress the key can peak the Load and Plate Controls
with
> > no problem and loads beautiful. This is on all bands. The
Heater
> > Switch is on as well as in Vox Position. Know I have to be
> > overlooking something very simple but just can't see it. The rig
is
> > very stable as power doesn't fluctuate no matter how long the CW
QSO
> > is. The receiver is as sensitive as my Icom 746 and actually
could
> > even be better!
> >
> > Any ideas or suggestions would certainly be welcomed.
> >
> > Thanks.
> > Wayne, NM3B
> >
> > Bob,
Yep, that was it! Right after I posted the message it dawned on me.
Knew it had to be something very simple as well as it loads. I work
95% CW so will keep the key plugged in and load it the way I have
been. Something that simple certainly makes me feel like

a "knucklehead"!

Sure appreciate your prompt reply.
Wayne, NM3B
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > _____
> > This message scanned for viruses by CoreComm
> >
> --
> CoreComm Webmail.
> http://home.core.com
>
> [Non-text portions of this message have been removed]
>

6501. Re: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 08:43:22 UTC
From: Walt Breining
Topic: 6493 Message: 6501

Peak the Drive for maximum with the meter in the ALC position.
While speaking on sideband, do not let the ALC reading peak above the ALC portion of the meter on voice peaks. This is adjusted with the mike gain control.

When operating CW, adjust the carrier control to the point that the ALC meter does not move or barely moves.

To tune up:

Preset
Place mode in tune position.
Place carrier control fully up.
Place load control to 12:00.
Place tune control in the range for the band selected.
Place multimeter on rig to ALC

Key rig and peak Drive for maximum or full scale ALC. Meter may peg on ALC when in tune.
Set rig multimeter for RF or use an external watt meter so you do not have to change rig multimeter.
Key rig and peak tune for maximum RF or Watts reading.
Un-key

Change to CW.
Key rig and peak Drive for maximum peak on ALC meter.
Peak Load for maximum RF or Watt reading
Then peak tune for maximum RF or Watt reading.
Peak alternatively between tune and load until maximum is achieved and then touch up drive for maximum ALC reading.

Do not stay keyed for more than 15 seconds at a time. If you need more time, un-key and let finals cool for 30 seconds, re-key and continue. As you get accustomed to this, you should be able to do the final peaking in the CW mode in 15 seconds or less.

It will be easier if you have an external watt meter. The rig multimeter can then remain in the ALC position and the external watt meter can be used to adjust the tune and load. If an external watt meter is not available, switch the multimeter to RF when peaking Plate and Load and back to ALC to peak Drive.

Again, while speaking on sideband, do not let the ALC reading peak above the ALC portion of the meter on voice peaks. This is adjusted with the mike gain control.

When operating CW, adjust the carrier control to the point that the ALC meter does not move or barely moves.

Hope this helps,
vy 73, Walt N9WB

----- Original Message -----
From: "kc2nzf" <KC2NZF@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 20, 2006 7:32 PM
Subject: [TS-520_820_530_830] TS520S Tuning proceedure

> Hello to all, I'm a new member and owner of a TS520s rig. A friend of
> mine and I are having a debate about the proper tuning of the drive. In
> the manual it states to "peak the ALC reading (maximum meter
> deflection) with the drive control". My question is...do you peak the
> adjustment to the top of the ALC portion of the meter,(which is at
> approx 1 oclock), or do you make the adjustment for the full meter
> deflection outside of the ALC portion of the meter? approx 2 oclock or
> +40db. I hope this isn't a question that has been asked here many times
> before, if so, I 'm sorry.
> Thanks for your input. I look forward to learning more about this rig
> by using this group.
> 73s
> Mike
> KC2NZF

6502. Re: [TS-520_820_530_830] TS-520 tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 10:28:56 UTC
From: Walt Breining
Topic: 6497 Message: 6502

If I follow you right, Please note that the Key has to be unplugged or closed for the rig to transmit on Tune or CW. This is normal. Vy 73, Walt N9WB

----- Original Message -----
From: "wayneg" <wayne15857@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 21, 2006 10:30 PM
Subject: [TS-520_820_530_830] TS-520 tuning

> Bought a TS-520 yesterday and have used tube gear in many moons.
> It does load with no problem but not according to the manual. On my
> manual Table 3. shows a Summery of Transmitter Tuning Procedures
> which is a four step procedure. The first three steps are fine but
> on the four step while Mode Switch is in CW position, Meter Switch RF
> position Stand-by Switch Send and final procedure says "Peak RF
> output by alternately adjusting the Plate and Load Controls. When I
> put the switch to Send absolutely nothing on the rig meter or my
> Autek meter.
> I had the Carrier Control on number 5 position. Have a key connected
> and when I depress the key can peak the Load and Plate Controls with
> no problem and loads beautiful. This is on all bands. The Heater
> Switch is on as well as in Vox Position. Know I have to be
> overlooking something very simple but just can't see it. The rig is
> very stable as power doesn't fluctuate no matter how long the CW QSO
> is. The receiver is as sensitive as my Icom 746 and actually could
> even be better!
>
> Any ideas or suggestions would certainly be welcomed.
>
> Thanks.
> Wayne, NM3B
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6503. AT-200 vs AT230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 12:56:57 UTC
From: Bill
Topic: 6503 Message: 6503

Can anyone tell me the differences between these two tuners. Thanks -
Bill

6504. Re: [TS-520_820_530_830] AT-200 vs AT230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 15:26:52 UTC
From: delanau@aol.com
Topic: 6503 Message: 6504

the 10 18 and 24 mhz have been added on AT 230
73 F5HLR

[Non-text portions of this message have been removed]

6505. Re: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 18:33:37 UTC
From: George W7ZVD
Topic: 6493 Message: 6505

What are the consequences of letting the ALC run over the meter limit?
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 22, 2006 00:43
Subject: Re: [TS-520_820_530_830] TS520S Tuning proceedure

Peak the Drive for maximum with the meter in the ALC position.
While speaking on sideband, do not let the ALC reading peak above the ALC portion of the meter on voice peaks. This is adjusted with the mike gain control.

When operating CW, adjust the carrier control to the point that the ALC meter does not move or barely moves.

To tune up:

Preset
Place mode in tune position.
Place carrier control fully up.
Place load control to 12:00.
Place tune control in the range for the band selected.
Place multimeter on rig to ALC

Key rig and peak Drive for maximum or full scale ALC. Meter may peg on ALC when in tune.
Set rig multimeter for RF or use an external watt meter so you do not have to change rig multimeter.
Key rig and peak tune for maximum RF or Watts reading.
Un-key

Change to CW.
Key rig and peak Drive for maximum peak on ALC meter.
Peak Load for maximum RF or Watt reading
Then peak tune for maximum RF or Watt reading.
Peak alternatively between tune and load until maximum is achieved and then touch up drive for maximum ALC reading.

Do not stay keyed for more than 15 seconds at a time. If you need more time, un-key and let finals cool for 30 seconds, re-key and continue. As you get accustomed to this, you should be able to do the final peaking in the CW mode in 15 seconds or less.

It will be easier if you have an external watt meter. The rig multimeter can then remain in the ALC position and the external watt meter can be used to adjust the tune and load. If an external watt meter is not available, switch the multimeter to RF when peaking Plate and Load and back to ALC to

peak Drive.

Again, while speaking on sideband, do not let the ALC reading peak above the ALC portion of the meter on voice peaks. This is adjusted with the mike gain control.

When operating CW, adjust the carrier control to the point that the ALC meter does not move or barely moves.

Hope this helps,
vy 73, Walt N9WB

----- Original Message -----
From: "kc2nzf" <KC2NZF@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 20, 2006 7:32 PM
Subject: [TS-520_820_530_830] TS520S Tuning proceedure

> Hello to all, I'm a new member and owner of a TS520s rig. A friend of
> mine and I are having a debate about the proper tuning of the drive. In
> the manual it states to "peak the ALC reading (maximum meter
> deflection) with the drive control". My question is...do you peak the
> adjustment to the top of the ALC portion of the meter,(which is at
> approx 1 oclock), or do you make the adjustment for the full meter
> deflection outside of the ALC portion of the meter? approx 2 oclock or
> +40db. I hope this isn't a question that has been asked here many times
> before, if so, I 'm sorry.
> Thanks for your input. I look forward to learning more about this rig
> by using this group.
> 73s
> Mike
> KC2NZF

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6506. Re: [TS-520_820_530_830] Digest Number 985

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 23:05:40 UTC
From: catboat15@aol.com
Topic: 6506 Message: 6506

In a message dated 1/22/2006 1:51:35 PM Pacific Standard Time,
TS-520_820_530_830@yahoogroups.com writes:
"Peak RF
output by alternately adjusting the Plate and Load Controls. When I
put the switch to Send absolutely nothing on the rig meter
I had the same problem on my 520 and was informed (also in the manual) that
the adjustment for the meter sensitivity is on the left side under that
removeable plate. That is covered in manual on page 14.

John Meacham
in the high desert of California
73
de k6suf

[Non-text portions of this message have been removed]

6507. Re: Digest Number 985

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-22 23:40:41 UTC
From: Graham
Topic: 6506 Message: 6507

--- In TS-520_820_530_830@yahoogroups.com, catboat15@a... wrote:
>
> In a message dated 1/22/2006 1:51:35 PM Pacific Standard Time,
> TS-520_820_530_830@yahoogroups.com writes:
> "Peak RF
> output by alternately adjusting the Plate and Load Controls. When I
> put the switch to Send absolutely nothing on the rig meter
> I had the same problem on my 520 and was informed (also in the
manual) that
> the adjustment for the meter sensitivity is on the left side under that
> removeable plate. That is covered in manual on page 14.
>

Interesting.
On my 530 I get no reading in the RF position and was told when I bought it [four years ago !] that this was due to a blown diode, which I did once locate on the Circuit but never bothered to replace - preferring to use the external RF /SWR Meter as an indicator of output. One day I might do something about the low output on 15 [about 75 watts] and 10 [maybe 55] which I have always assumed to be the bottles going 'soft'.

The 520 which sits here gathering dust does [or did when last warmed up] at least give 100 watts plus on all bands - one day I'll find out how to take the screening cover off the Main C and do something about the 'crackles' - probably dirt - which occur at 200khz 'plus'. What makes you think it was only really used on 40 here in the UK. <smiles>
Anyway I've had it now since December 1997 and only had the lid off once to have a 'look'.

What makes you think that my motto is 'if it ain't broke......'

73 to All

Graham

6508. TS 520 Tune Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 00:27:49 UTC
From: wa3syr
Topic: 6508 Message: 6508

I don't have a manual for my 520 can some one list the proper tuning for
the 520 in the order it is done.

WA3SYR

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006

6509. SM-220 w/BS-8 for Trade (maybe sale)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 03:24:08 UTC
From: Kevin der Kinderen
Topic: 6509 Message: 6509

First let me tell you the quick story. I just picked up another SM-220 on Ebay which appears to be in very good condition. So I'd like to get my current 220 to someone that can use it. Here's the situation.

The SM-200 I have for trade is in fair condition cosmetically and electrically. There are signs of rust on the outside case and a few screws missing. The slug in the can transformer (T-201 I think?) is broken off and can't be adjusted. I failed to find a replacement part for the transformer. There are no cables. The manual is a photo copy and you could probably find a better one on the net. There is a scuff on the top right front plastic.

Now for the good news. It functions well. The pan adapter (BS-8) works in spite of the broken slug. The cables are a no-brainer. The view of the transmitted signal looks good. Using V.Input for the second IF looks good. I have not tried the two-tone test nor have I used the unit with a linear. Inside, the unit looks clean. All the knobs and buttons function properly. The lettering is clean and bright. The trace is crisp and bright.

I'd prefer a trade rather than a sale but will go that route if I can't find anything. Here's a few things (in no particular order) that I'm hunting for to give an idea...

Original manuals for the 830S and accessories
VFO-230 to TS-830S cable
KB-1 knob
Extension feet
Anything else that might be of interest to a dedicated TS-830S, CW, digital operator

Suggestions?

Also, I'm considering trading my Ten Tec Delta II. I would be interested in a second TS-830S in excellent condition.

73,
Kevin - K4VD

6510. Help Needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 13:51:13 UTC
From: wa3syr
Topic: 6510 Message: 6510

I don't have a manual for my TS 520 can some one list the proper Xmit
tuning for the 520 in the order it is done.

WA3SYR

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006

6511. Re: [TS-520_820_530_830] Help Needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 14:46:30 UTC
From: Rod Goff
Topic: 6510 Message: 6511

Here is a web site that you can download the 520 manual from. If this doesnt help for some reason or another let me know direct and I will try to help.
http://www.kg6haf.com/downloads/520_Manual.pdf
Rod wb3fch@...

----- Original Message -----
From: "wa3syr" <wa3syr@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, January 23, 2006 8:51 AM
Subject: [TS-520_820_530_830] Help Needed

>I don't have a manual for my TS 520 can some one list the proper Xmit
> tuning for the 520 in the order it is done.
>
>
>
>
> WA3SYR
>
>
> --
> No virus found in this outgoing message.
> Checked by AVG Anti-Virus.
> Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

6512. Re: [TS-520_820_530_830] Help Needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 16:08:08 UTC
From: wa3syr
Topic: 6510 Message: 6512

Thank you that is a big help found it and printed out.

WA3SYR

At 09:46 AM 1/23/2006, you wrote:

>Here is a web site that you can download the 520 manual from. If this
>doesnt help for some reason or another let me know direct and I will try to
>help.
><http://www.kg6haf.com/downloads/520_Manual.pdf>http://www.kg6haf.com/downloads/520_Manua
l.pdf
>Rod wb3fch@...
>
>----- Original Message -----
>From: "wa3syr" <wa3syr@...>
>To: <TS-520_820_530_830@yahoogroups.com>
>Sent: Monday, January 23, 2006 8:51 AM
>Subject: [TS-520_820_530_830] Help Needed
>
>
> >I don't have a manual for my TS 520 can some one list the proper Xmit
> > tuning for the 520 in the order it is done.
> >
> >
> >
> >
> > WA3SYR
> >
> >
> > --
> > No virus found in this outgoing message.
> > Checked by AVG Anti-Virus.
> > Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
>

>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006

No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006

[Non-text portions of this message have been removed]

6513. RE: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 16:22:45 UTC
From: Hauser, Ron M.
Topic: 6493 Message: 6513

Hi Mike. Running the mike gain up so that the ALC peaks above the "ALC" mark on the meter while transmitting SSB will just make your audio sound distorted. If you have a way to listen to yourself with headphones while transmitting (into a dummy load preferably), you can really hear this. I don't know if the 520 has it, but on the 820 and 830, there is a monitor switch that lets you listen to yourself. If you can do this, you will quickly recognize the crunchy, squawking noise that comes from overdriving the finals. And then you will be able to recognize other people's bad audio too <grin>. Very educational.

I believe that in CW when you run with any ALC action at all, you tend to get clicks on the beginning or end of the elements. In any case, your cleanest, most readable CW signal is with no ALC action at all.

Hope this helps

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@...m] On Behalf Of George W7ZVD
Sent: Sunday, January 22, 2006 12:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS520S Tuning proceedure

What are the consequences of letting the ALC run over the meter limit?
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, January 22, 2006 00:43
Subject: Re: [TS-520_820_530_830] TS520S Tuning proceedure

Peak the Drive for maximum with the meter in the ALC position.
While speaking on sideband, do not let the ALC reading peak above the
ALC
portion of the meter on voice peaks. This is adjusted with the mike
gain
control.

When operating CW, adjust the carrier control to the point that the
ALC
meter does not move or barely moves.

To tune up:

Preset
Place mode in tune position.
Place carrier control fully up.
Place load control to 12:00.
Place tune control in the range for the band selected.
Place multimeter on rig to ALC

Key rig and peak Drive for maximum or full scale ALC. Meter may peg on ALC
when in tune.
Set rig multimeter for RF or use an external watt meter so you do not have
to change rig multimeter.
Key rig and peak tune for maximum RF or Watts reading.
Un-key

Change to CW.
Key rig and peak Drive for maximum peak on ALC meter.
Peak Load for maximum RF or Watt reading
Then peak tune for maximum RF or Watt reading.
Peak alternatively between tune and load until maximum is achieved and then
touch up drive for maximum ALC reading.

Do not stay keyed for more than 15 seconds at a time. If you need more
time, un-key and let finals cool for 30 seconds, re-key and continue. As
you get accustomed to this, you should be able to do the final peaking in
the CW mode in 15 seconds or less.

It will be easier if you have an external watt meter. The rig multimeter
can then remain in the ALC position and the external watt meter can be used
to adjust the tune and load. If an external watt meter is not available,
switch the multimeter to RF when peaking Plate and Load and back to ALC to
peak Drive.

Again, while speaking on sideband, do not let the ALC reading peak above the
ALC portion of the meter on voice peaks. This is adjusted with the mike gain
control.

When operating CW, adjust the carrier control to the point that the ALC
meter does not move or barely moves.

Hope this helps,
vy 73, Walt N9WB

----- Original Message -----
From: "kc2nzf" <KC2NZF@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 20, 2006 7:32 PM
Subject: [TS-520_820_530_830] TS520S Tuning proceedure

> Hello to all, I'm a new member and owner of a TS520s rig. A friend
of
> mine and I are having a debate about the proper tuning of the drive.
In
> the manual it states to "peak the ALC reading (maximum meter
> deflection) with the drive control". My question is...do you peak
the
> adjustment to the top of the ALC portion of the meter,(which is at
> approx 1 oclock), or do you make the adjustment for the full meter
> deflection outside of the ALC portion of the meter? approx 2 oclock
or
> +40db. I hope this isn't a question that has been asked here many
times
> before, if so, I 'm sorry.
> Thanks for your input. I look forward to learning more about this
rig
> by using this group.
> 73s
> Mike
> KC2NZF

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

6514. Re: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 17:07:43 UTC
From: Walt Breining
Topic: 6493 Message: 6514

I assume that you mean on SSB. The transmitted audio will have an over compressed distorted sound and background room noise will "pump" up when you pause speaking.

Now please note that often the ALC meter pegs when peaking the drive on tune. When you retune the drive on CW, It will not be full scale so you can find the exact peak with the drive control. When operating CW, the CW waveform will be best if the carrier control is reduced after tune up to the point where there is little ALC. This gives a better CW waveform. On SSB the ALC should not pass the top of the ALC scale very often. When I use external processing, I set the ALC to peak at 10 dB or less depending on how "tight" my processing is. The 520 processor is better than the 820 processor. When using the processor in the 520, reduce the ALC a bit more than full scale for best audio.

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

----- Original Message -----
From: "George W7ZVD" <w7zvd@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 22, 2006 1:33 PM
Subject: Re: [TS-520_820_530_830] TS520S Tuning proceedure

> What are the consequences of letting the ALC run over the meter limit?
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, January 22, 2006 00:43
> Subject: Re: [TS-520_820_530_830] TS520S Tuning proceedure
>
>
> Peak the Drive for maximum with the meter in the ALC position.
> While speaking on sideband, do not let the ALC reading peak above the
ALC
> portion of the meter on voice peaks. This is adjusted with the mike gain
> control.
>
> When operating CW, adjust the carrier control to the point that the ALC
> meter does not move or barely moves.
>
>
>
> To tune up:
>
> Preset

> Place mode in tune position.
> Place carrier control fully up.
> Place load control to 12:00.
> Place tune control in the range for the band selected.
> Place multimeter on rig to ALC
>
> Key rig and peak Drive for maximum or full scale ALC. Meter may peg on
ALC
> when in tune.
> Set rig multimeter for RF or use an external watt meter so you do not
have
> to change rig multimeter.
> Key rig and peak tune for maximum RF or Watts reading.
> Un-key
>
> Change to CW.
> Key rig and peak Drive for maximum peak on ALC meter.
> Peak Load for maximum RF or Watt reading
> Then peak tune for maximum RF or Watt reading.
> Peak alternatively between tune and load until maximum is achieved and
then
> touch up drive for maximum ALC reading.
>
> Do not stay keyed for more than 15 seconds at a time. If you need more
> time, un-key and let finals cool for 30 seconds, re-key and continue.
As
> you get accustomed to this, you should be able to do the final peaking
in
> the CW mode in 15 seconds or less.
>
> It will be easier if you have an external watt meter. The rig
multimeter
> can then remain in the ALC position and the external watt meter can be
used
> to adjust the tune and load. If an external watt meter is not
available,
> switch the multimeter to RF when peaking Plate and Load and back to ALC
to
> peak Drive.
>
> Again, while speaking on sideband, do not let the ALC reading peak above
the
> ALC portion of the meter on voice peaks. This is adjusted with the mike
gain
> control.
>
> When operating CW, adjust the carrier control to the point that the ALC
> meter does not move or barely moves.
>
> Hope this helps,

> vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: "kc2nzf" <KC2NZF@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 20, 2006 7:32 PM
> Subject: [TS-520_820_530_830] TS520S Tuning proceedure
>
>
> > Hello to all, I'm a new member and owner of a TS520s rig. A friend of
> > mine and I are having a debate about the proper tuning of the drive.
In
> > the manual it states to "peak the ALC reading (maximum meter
> > deflection) with the drive control". My question is...do you peak the
> > adjustment to the top of the ALC portion of the meter,(which is at
> > approx 1 oclock), or do you make the adjustment for the full meter
> > deflection outside of the ALC portion of the meter? approx 2 oclock or
> > +40db. I hope this isn't a question that has been asked here many
times
> > before, if so, I 'm sorry.
> > Thanks for your input. I look forward to learning more about this rig
> > by using this group.
> > 73s
> > Mike
> > KC2NZF
>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> --

>
>
>
> [Non-text portions of this message have been removed]

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6515. Re: [TS-520_820_530_830] Digest Number 985

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 17:16:33 UTC
From: Walt Breining
Topic: 6506 Message: 6515

I assume that you are placing the mode in CW. You will not get any reading in SSB. (You probably knew that.)

I use an external watt meter and just leave the multimeter in ALC. I peak the drive in CW for max ALC, and alternately adjusting the Plate and Load Controls for max on the watt meter.
----- Original Message -----

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

From: <catboat15@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 22, 2006 6:05 PM
Subject: Re: [TS-520_820_530_830] Digest Number 985

> In a message dated 1/22/2006 1:51:35 PM Pacific Standard Time,
> TS-520_820_530_830@yahoogroups.com writes:
> "Peak RF
> output by alternately adjusting the Plate and Load Controls. When I
> put the switch to Send absolutely nothing on the rig meter
> I had the same problem on my 520 and was informed (also in the manual) that
> the adjustment for the meter sensitivity is on the left side under that
> removeable plate. That is covered in manual on page 14.
>
>
> John Meacham
> in the high desert of California
> 73
> de k6suf
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

>

6516. Fw: [TS-520_820_530_830] TS520S Tuning proceedure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-23 17:20:20 UTC
From: Walt Breining
Topic: 6516 Message: 6516

This is also the procedure for the 520

Vy 73, Walt N9WB
Good audio is an Amateur Radio tradition, not a crime.

Replay ----- Original Message -----
From: "Walt Breining" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, January 22, 2006 3:43 AM
Subject: Re: [TS-520_820_530_830] TS520S Tuning proceedure

> Peak the Drive for maximum with the meter in the ALC position.
> While speaking on sideband, do not let the ALC reading peak above the ALC
> portion of the meter on voice peaks. This is adjusted with the mike gain
> control.
>
> When operating CW, adjust the carrier control to the point that the ALC
> meter does not move or barely moves.
>
>
>
> To tune up:
>
> Preset
> Place mode in tune position.
> Place carrier control fully up.
> Place load control to 12:00.
> Place tune control in the range for the band selected.
> Place multimeter on rig to ALC
>
> Key rig and peak Drive for maximum or full scale ALC. Meter may peg on
ALC
> when in tune.
> Set rig multimeter for RF or use an external watt meter so you do not have
> to change rig multimeter.
> Key rig and peak tune for maximum RF or Watts reading.
> Un-key
>
> Change to CW.
> Key rig and peak Drive for maximum peak on ALC meter.
> Peak Load for maximum RF or Watt reading
> Then peak tune for maximum RF or Watt reading.
> Peak alternatively between tune and load until maximum is achieved and
then
> touch up drive for maximum ALC reading.
>

> Do not stay keyed for more than 15 seconds at a time. If you need more
> time, un-key and let finals cool for 30 seconds, re-key and continue. As
> you get accustomed to this, you should be able to do the final peaking in
> the CW mode in 15 seconds or less.
>
> It will be easier if you have an external watt meter. The rig multimeter
> can then remain in the ALC position and the external watt meter can be
used
> to adjust the tune and load. If an external watt meter is not available,
> switch the multimeter to RF when peaking Plate and Load and back to ALC to
> peak Drive.
>
> Again, while speaking on sideband, do not let the ALC reading peak above
the
> ALC portion of the meter on voice peaks. This is adjusted with the mike
gain
> control.
>
> When operating CW, adjust the carrier control to the point that the ALC
> meter does not move or barely moves.
>
> Hope this helps,
> vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: "kc2nzf" <KC2NZF@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 20, 2006 7:32 PM
> Subject: [TS-520_820_530_830] TS520S Tuning proceedure
>
>
> > Hello to all, I'm a new member and owner of a TS520s rig. A friend of
> > mine and I are having a debate about the proper tuning of the drive. In
> > the manual it states to "peak the ALC reading (maximum meter
> > deflection) with the drive control". My question is...do you peak the
> > adjustment to the top of the ALC portion of the meter,(which is at
> > approx 1 oclock), or do you make the adjustment for the full meter
> > deflection outside of the ALC portion of the meter? approx 2 oclock or
> > +40db. I hope this isn't a question that has been asked here many times
> > before, if so, I 'm sorry.
> > Thanks for your input. I look forward to learning more about this rig
> > by using this group.
> > 73s
> > Mike
> > KC2NZF
>

6518. Getting active after 10 years!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 03:29:38 UTC
From: wb4ouf
Topic: 6518 Message: 6518

Hi everyone.
I "dug" my old 820S and VFO 820 out a few weeks ago and have been going through it "fixing" the little bugs that it has developed after so many years in storage. At first, I thought I would have to get a new rig but, after cleaning contacts, controls and connectors and re-soldering a couple of opens in the vfo cable, it has settled down fairly well. Probably should get it aligned but, have no idea by who and for how much $. Anyway, wish me luck and, hopefully will get it back on the air as soon as I get an antenna up. Right now I just have some wire hooked up (just for listening). Am looking forward to working some cw again and have been surprised that I am still able to copy about 20wpm after all these years. May be asking some questions as this project unfolds so am glad I found this group. Also, may be looking for an AT200. I don't have a lot of room for a full scale antenna farm anymore. So if you know of one, please drop me a line.... Thanks es 73s....
Frank.

6519. Re: [TS-520_820_530_830] Tuning the 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 04:51:24 UTC
From: catboat15@aol.com
Topic: 6519 Message: 6519

This is according to the manual as I have not had a lot of practice yet.
1. Put the meter in IP. Check to see that the idle current is 60 ma. with the stand by switch in SEND.
2. Turn meter to ALC Mode to TUN and use the DRIVE to peak
3. Meter in IP and still in TUN dip plate current with PLATE control
4. Meter in RF and Mode in CW peak the RF using both Plate and Load controls.

This is all assuming you are tuned to the band and close to the freq you want to operate.
You can operate at reduced power using the CAR control when on CW mode or by the MIC control when on SSB.

If you are new to the 520 I would practice this with the set cold, then in receive to find the dials and controls as you should not hang around with full output and not tuned properly.

John Meacham
in the high desert of California
73
de k6suf

[Non-text portions of this message have been removed]

6520. Kenwood TS-520 CW

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 06:27:28 UTC
From: wayneg
Topic: 6520 Message: 6520

Hello again with another question.
I work all CW and getting the loading procedure down right,
hopefully. According to the manual on CW the meter should be within
the ALC area. Was running out of the ALC area at about 65-70 watts.
Went through the loading steps again and with the meter switch in RF
position and keydown with "needle" on the 210 ma mark my Autek meter
shows just about 50 watts output. This was on the 40 meter band. I am
assuming the meter switch should be on the RF mark? When I switch to
ALC on the meter with key down there is no movement on the meter which
I also assume is correct?

So, anything over 210 ma on CW would be slowly "zapping" the finals?
Seems like there should be better explanations in the manual for CW
operating or maybe I'm overlooking something?

Thanks again.
Wayne, NM3B

6521. Re: Getting active after 10 years!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 08:40:37 UTC
From: vk2icj
Topic: 6518 Message: 6521

Welcome back Frank!!!!

You sound fairly handy with the soldering iron so why not make yourself a resonant dipole for 40 meters which will give you some on 15 as well. Cheap and easy while you look for an AT-200. Ebay seems to have heaps of them from time to time.

73

Chris VK2ICJ

--- In TS-520_820_530_830@yahoogroups.com, "wb4ouf" <wb4ouf@e...> wrote:
>
> Hi everyone.
> I "dug" my old 820S and VFO 820 out a few weeks ago and have been going
> through it "fixing" the little bugs that it has developed after so many
> years in storage. At first, I thought I would have to get a new rig
> but, after cleaning contacts, controls and connectors and re-soldering
> a couple of opens in the vfo cable, it has settled down fairly well.
> Probably should get it aligned but, have no idea by who and for how
> much $. Anyway, wish me luck and, hopefully will get it back on the
> air as soon as I get an antenna up. Right now I just have some wire
> hooked up (just for listening). Am looking forward to working some cw
> again and have been surprised that I am still able to copy about 20wpm
> after all these years. May be asking some questions as this project
> unfolds so am glad I found this group. Also, may be looking for an
> AT200. I don't have a lot of room for a full scale antenna farm
> anymore. So if you know of one, please drop me a line.... Thanks es
> 73s....
> Frank.
>

6522. Re: Kenwood TS-520 CW

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 08:51:08 UTC
From: vk2icj
Topic: 6520 Message: 6522

Hi Wayne

I'm seeing essentially the same thing and as you I am confused. I posted earlier and got this result.

http://groups.yahoo.com/group/TS-520_820_530_830/message/6463

From what I can tell up to 250ma is acceptable from this message.

Chris VK2ICj

--- In TS-520_820_530_830@yahoogroups.com, "wayneg" <wayne15857@y...> wrote:
>
> Hello again with another question.
> I work all CW and getting the loading procedure down right,
> hopefully. According to the manual on CW the meter should be within
> the ALC area. Was running out of the ALC area at about 65-70 watts.
> Went through the loading steps again and with the meter switch in RF
> position and keydown with "needle" on the 210 ma mark my Autek meter
> shows just about 50 watts output. This was on the 40 meter band. I am
> assuming the meter switch should be on the RF mark? When I switch to
> ALC on the meter with key down there is no movement on the meter which
> I also assume is correct?
>
> So, anything over 210 ma on CW would be slowly "zapping" the finals?
> Seems like there should be better explanations in the manual for CW
> operating or maybe I'm overlooking something?
>
> Thanks again.
> Wayne, NM3B
>

6523. Re: Kenwood TS-520 CW

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 17:08:06 UTC
From: wayneg
Topic: 6520 Message: 6523

--- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@y...>
wrote:
>
> Hi Wayne
>
> I'm seeing essentially the same thing and as you I am confused.
I posted earlier and got
> this result.
>
> http://groups.yahoo.com/group/TS-520_820_530_830/message/6463
>
>
> From what I can tell up to 250ma is acceptable from this message.
>
>
> Chris VK2ICj
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayneg"
<wayne15857@y...> wrote:
> >
> > Hello again with another question.
> > I work all CW and getting the loading procedure down right,
> > hopefully. According to the manual on CW the meter should be
within
> > the ALC area. Was running out of the ALC area at about 65-70
watts.
> > Went through the loading steps again and with the meter switch in
RF
> > position and keydown with "needle" on the 210 ma mark my Autek
meter
> > shows just about 50 watts output. This was on the 40 meter band.
I am
> > assuming the meter switch should be on the RF mark? When I
switch to
> > ALC on the meter with key down there is no movement on the meter
which
> > I also assume is correct?
> >
> > So, anything over 210 ma on CW would be slowly "zapping" the
finals?
> > Seems like there should be better explanations in the manual for
CW

> > operating or maybe I'm overlooking something?
> >
> > Thanks again.
> > Wayne, NM3B
> >
>
Chris,
Thanks for the information on the previous post. The next step will be neutralization and go through the aligning procedures.
Cul,
Wayne

6524. CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 22:47:16 UTC
From: Ken McGowan
Topic: 6524 Message: 6524

I have a ts-830, and i'm trying to make a interface to work with CWTYPE.

The interface ins't working, because (or at least I think), the
voltage at the key is 65vdc.

Has anyone tried this?

And, if yes what did you do to get it to work?

Any help would be great.

Thanks & 73,

w1nyg

6525. 530S Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 22:03:02 UTC
From: joe sloss
Topic: 6525 Message: 6525

For Sale - $21 shipped USPS. Joe k7mks

[Non-text portions of this message have been removed]

6526. Re: [TS-520_820_530_830] CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-24 23:54:54 UTC
From: Kevin der Kinderen
Topic: 6524 Message: 6526

You need a keyer/interface for grid block keying. I purchased one off
the Internet but I'm sure it could be easily built.

http://k1nu.home.comcast.net/k1nu/Products/CW.html

73,
Kevin - K4VD

On 1/24/06, Ken McGowan <w.one.nyg@...> wrote:
> I have a ts-830, and i'm trying to make a interface to work with CWTYPE.
>
> The interface ins't working, because (or at least I think), the
> voltage at the key is 65vdc.
>
> Has anyone tried this?
>
> And, if yes what did you do to get it to work?
>
>
> Any help would be great.
>
>
> Thanks & 73,
>
> w1nyg

6527. Re: [TS-520_820_530_830] TS 520 Tune Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 01:06:31 UTC
From: KE5EOT
Topic: 6508 Message: 6527

I have a 520 and the manual. I'll scan the page in that deals with
tuning and e-mail it to you.

Randy (KE5EOT) -.- . ... --- -

wa3syr wrote:
> I don't have a manual for my 520 can some one list the proper tuning for
> the 520 in the order it is done.
>
>
>
>
> WA3SYR
>
>
> --
> No virus found in this outgoing message.
> Checked by AVG Anti-Virus.
> Version: 7.1.362 / Virus Database: 267.14.21/235 - Release Date: 1/19/2006
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+
craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&
w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL
9A5AR8aLNA>
>
> Icom ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby
+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT
2w>
> Yaesu ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobb
y+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qy
D8w>
>
>

>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

6528. Re: CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 02:19:09 UTC
From: james27613
Topic: 6524 Message: 6528

hi ken,

here is a link for you

http://home.att.net/~jacksonharbor/keyall.htm

73 james ke4drn

6529. Re: TS 520 Tune Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 02:24:39 UTC
From: james27613
Topic: 6508 Message: 6529

hi,

To help me with the tuning, I just remember
Drive Plate Load

From right to left on the top of the rig,
the controls are drive, plate and load.

The manuals for the ts-520 and other models
are available at no cost to download at
HamFtp.

Here is a link, you need to join up like you
did for this forum.

http://groups.yahoo.com/group/HAMFTP/

73 james ke4drn

6530. Re: [TS-520_820_530_830] 530S Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 02:28:19 UTC
From: carboyhat@juno.com
Topic: 6525 Message: 6530

I could use the manual, Joe.

Bob, AA4AI

On Tue, 24 Jan 2006 14:03:02 -0800 "joe sloss" <k7mks@...>
writes:
> For Sale - $21 shipped USPS. Joe k7mks

6531. Re: [TS-520_820_530_830] CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 02:46:09 UTC
From: w3iz
Topic: 6524 Message: 6531

usen an opto-isolator to keep the 65v away from your computer.

1k resistor from PC keying line in series to pin 1.
1n914 or eq diode across pin 1 & 2.
Pin 4 is gnd to key jack on rig.
Pin 5 is hot on key jack on rig.

http://www.qsl.net/wm2u/interface.html

73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Ken McGowan" <w.one.nyg@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, January 24, 2006 5:47 PM
Subject: [TS-520_820_530_830] CWTYPE software interface

>I have a ts-830, and i'm trying to make a interface to work with CWTYPE.
>
> The interface ins't working, because (or at least I think), the
> voltage at the key is 65vdc.
>
> Has anyone tried this?
>
> And, if yes what did you do to get it to work?
>
>
> Any help would be great.
>
>
> Thanks & 73,
>
> w1nyg
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>
>

6532. I just won an auction for a TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 03:17:21 UTC
From: Bill
Topic: 6532 Message: 6532

I have one on its way! Are there any suggestions as to what tests to perform to properly check the rig when it arrives? Thanks - Bill

6533. Re: Getting active after 10 years!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 04:29:17 UTC
From: wb4ouf
Topic: 6518 Message: 6533

Thanks Chris, good to be back. Yes, been thinking of a dipole for 40. Will probably start with that. Thanks agn es 73s.
Frank...

--- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@y...> wrote:
>
> Welcome back Frank!!!!
>
>
> You sound fairly handy with the soldering iron so why not make yourself a resonant
> dipole for 40 meters which will give you some on 15 as well. Cheap and easy while you
> look for an AT-200. Ebay seems to have heaps of them from time to time.
>
>
> 73
>
> Chris VK2ICJ
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4ouf" <wb4ouf@e...> wrote:
> >
> > Hi everyone.
> > I "dug" my old 820S and VFO 820 out a few weeks ago and have been going
> > through it "fixing" the little bugs that it has developed after so many
> > years in storage. At first, I thought I would have to get a new rig
> > but, after cleaning contacts, controls and connectors and re-soldering
> > a couple of opens in the vfo cable, it has settled down fairly well.
> > Probably should get it aligned but, have no idea by who and for how
> > much $. Anyway, wish me luck and, hopefully will get it back on the
> > air as soon as I get an antenna up. Right now I just have some wire
> > hooked up (just for listening). Am looking forward to working

some cw
> > again and have been surprised that I am still able to copy about
20wpm
> > after all these years. May be asking some questions as this
project
> > unfolds so am glad I found this group. Also, may be looking for
an
> > AT200. I don't have a lot of room for a full scale antenna farm
> > anymore. So if you know of one, please drop me a line....
Thanks es
> > 73s....
> > Frank.
> >
>

6534. Re: [TS-520_820_530_830] I just won an auction for a TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 05:53:03 UTC
From: Kevin der Kinderen
Topic: 6532 Message: 6534

Bill:

Do you know anything about it's history? Was it in operation last week
or has it been in storage for 15 years? You might need to take
different approaches to the first start up depending on the answer.

For tests, I'd just try following the tuning procedures for each band
into a dummy load and record some of the settings including power out,
meter readings and approximate positions of the LOAD, PLATE, DRIVE
settings. It might make a nice reference if you need to troubleshoot
problems further down the road.

Congrats on the 830! Wonderful rig.

73,
Kev - K4VD

On 1/25/06, Bill <wb5dx@arrl.net> wrote:
> I have one on its way! Are there any suggestions as to what tests to
> perform to properly check the rig when it arrives? Thanks - Bill

6535. dynamic vs others

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 12:31:09 UTC
From: Bill
Topic: 6535 Message: 6535

Hi Again - does the 830 require a dynamic mike or can an electret be adapted? Thanks - Bill

6536. RE: [SolidCpyCW] Re: Rain Gutter Antenna

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 17:13:31 UTC
From: William Bottger
Topic: 6536 Message: 6536

CQ CQ CQ,

I have the Kenwood TS-520, 25 ft of ladder line, and wire for dipole.
My question is: does it matter if the wire is run North-South or East-West
or NW-SE?

What is required since I do not have an antenna tuner?

KI4CYM, Bill

334-262-4601

Packet8 Phone User

334-239-4136

VoIP Rules

[Non-text portions of this message have been removed]

6537. Re: [TS-520_820_530_830] CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 21:29:54 UTC
From: cx9ct@sympatico.ca
Topic: 6524 Message: 6537

I do have a TS-830S as well and I built my own interface, it works perfect with both serial and parallel ports. You need to use a PNP transistor with a BVCBO high enough to handle the -65VDC from the rig, I think I used a 2N5401 from the junkbox and a PN2222 to drive it, I can send you the diagram tonight when I get home if you want.

73,
Julio VE3FH

> From: "Ken McGowan" <w.one.nyg@...>
> Date: 2006/01/24 Tue PM 05:47:16 EST
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] CWTYPE software interface
>
> I have a ts-830, and i'm trying to make a interface to work with CWTYPE.
>
> The interface ins't working, because (or at least I think), the
> voltage at the key is 65vdc.
>
> Has anyone tried this?
>
> And, if yes what did you do to get it to work?
>
>
> Any help would be great.
>
>
> Thanks & 73,
>
> w1nyg
>
>

6538. Re: [TS-520_820_530_830] CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-25 22:32:52 UTC
From: Arthur Petteway
Topic: 6524 Message: 6538

Julio, Would you please send me a copy of the diagram also. wb4mnk@...

73
Art
WB4MNK

----- Original Message -----
From: cx9ct@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, January 25, 2006 4:29 PM
Subject: Re: [TS-520_820_530_830] CWTYPE software interface

I do have a TS-830S as well and I built my own interface, it works perfect with both serial and parallel ports. You need to use a PNP transistor with a BVCBO high enough to handle the -65VDC from the rig, I think I used a 2N5401 from the junkbox and a PN2222 to drive it, I can send you the diagram tonight when I get home if you want.

73,
Julio VE3FH

>
> From: "Ken McGowan" <w.one.nyg@...>
> Date: 2006/01/24 Tue PM 05:47:16 EST
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] CWTYPE software interface
>
> I have a ts-830, and i'm trying to make a interface to work with CWTYPE.
>
> The interface ins't working, because (or at least I think), the
> voltage at the key is 65vdc.
>
> Has anyone tried this?
>
> And, if yes what did you do to get it to work?
>
>
> Any help would be great.
>
>
> Thanks & 73,
>
> w1nyg
>
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.14.23/240 - Release Date: 1/25/2006

[Non-text portions of this message have been removed]

6539. "Scratchy " receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 00:56:52 UTC
From: Grant McDuling
Topic: 6539 Message: 6539

Hi Guys,

I am experiencing 'scratchy' receive especially on CW. By this I mean, if I tune across the CW portion of the 40m band, the signals don't strengthen up as the dial sweeps across the transmitting frequency, they are very broken up and scratchy until I stop the dial on the frequency; then it sounds normal. Is there something that needs attention in the receive circuit? Has anyone come across something like this before. It's a little difficult to explain, but I hope you get the idea.

Grant VK4JAZ

6540. CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 03:32:02 UTC
From: pjcoombs@frontiernet.net
Topic: 6524 Message: 6540

Ken,

I'm guessing that the 830 uses -65 VDC on the key line, just like the 820. If so, then you can just build the two transistor interface almost as shown in the help file. Instead of the 2N2222 (NPN), use a PNP that can handle the 65 volts for the "KEY-IN (+)" section - or, add the pnp into the circuit as it exists and you can use the same controller for a positive key line as well. I used an old TV vertical output transistor along with the parallel port (D-25) circuit in the help file. All you need to do is switch the transistor leads around a bit. Hook the pnp Emitter to where the npn Base goes. The pnp Base gets grounded. And the pnp Collector goes to the KEY-IN (now -). Connect a protection diode from the pnp collector, + side to ground. It would also be a good idea to put protection diodes on the inputs, + side to the key-in Emitter, and + side to the PTT Base (npn). Works great, even though I only use a SPDT reed switch for the paddle.

jay, kb9wwq

>Message: 7
> Date: Tue, 24 Jan 2006 22:47:16 -0000
> From: "Ken McGowan" <w.one.nyg@...>
>Subject: CWTYPE software interface
>
>I have a ts-830, and i'm trying to make a interface to work with CWTYPE.
>
>The interface ins't working, because (or at least I think), the
>voltage at the key is 65vdc.
>
>Has anyone tried this?
>
>And, if yes what did you do to get it to work?
>
>
>Any help would be great.
>
>
>Thanks & 73,
>
>w1nyg
>
>

6541. Re: [TS-520_820_530_830] Antenna and tuning question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 06:11:36 UTC
From: catboat15@aol.com
Topic: 6541 Message: 6541

In a message dated 1/25/2006 8:22:01 PM Pacific Standard Time,
TS-520_820_530_830@yahoogroups.com writes:
I have the Kenwood TS-520, 25 ft of ladder line, and wire for dipole.
My question is: does it matter if the wire is run North-South or East-West
or NW-SE?

What is required since I do not have an antenna tuner?
Bill: Every antenna has a pattern where the signal is strongest. In a dipole
in free space the most signal is at right angles to the wire. If there is no
trees buildings etc in the way and depending on how high you can get the wire
the right angle to the antenna is pretty true.
I assume you will feed the antenna with coax since that is what the TS-520
has for the output connection. Cut the length of the antenna in accordance with
formula for the frequency you want to work. The pi filter on the output does a
pretty good job of matching if you are close to the correct length. (the LOAD
control adjusts the antenna match if in a reasonable range)
Generally an inverted V antenna is closer to the 50 ohms the transmitter
likes to work into.
What I would recomend is to save your pennies and try to get some kind of
tuner with a meter or meters so you are not working by guess work. Too long a
period when things are badly mis-matched can cost you a pair of output tubes in a
short time. After all the radio will put out power and if it can not go into
the antenna and into the air the power is spent in the transmitter and can
cause problems.
Sometimes a tuner (particuarly the older ones) are called "Transmatch" and
there are circuits in the Amateur handbook for some designs you can home brew
yourself.
The best thing you can do is to find a club or an Elmer nearby who can help
you get on the air.

John Meacham
K6SUF

[Non-text portions of this message have been removed]

6542. Re: CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 12:27:19 UTC
From: Ken McGowan
Topic: 6524 Message: 6542

Julio,

That would be great. Thanks for the help.

73, Ken

--- In TS-520_820_530_830@yahoogroups.com, <cx9ct@s...> wrote:
>
>
> I do have a TS-830S as well and I built my own interface, it works
perfect with both serial and parallel ports. You need to use a PNP
transistor with a BVCBO high enough to handle the -65VDC from the rig,
I think I used a 2N5401 from the junkbox and a PN2222 to drive it, I
can send you the diagram tonight when I get home if you want.
>
> 73,
> Julio VE3FH
>
> >
> > From: "Ken McGowan" <w.one.nyg@g...>
> > Date: 2006/01/24 Tue PM 05:47:16 EST
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] CWTYPE software interface
> >
> > I have a ts-830, and i'm trying to make a interface to work with
CWTYPE.
> >
> > The interface ins't working, because (or at least I think), the
> > voltage at the key is 65vdc.
> >
> > Has anyone tried this?
> >
> > And, if yes what did you do to get it to work?
> >
> >
> > Any help would be great.
> >
> >
> > Thanks & 73,
> >
> > w1nyg
> >
> >
>

6543. Re: CWTYPE software interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 17:07:24 UTC
From: yankeebluedevil
Topic: 6524 Message: 6543

--- In TS-520_820_530_830@yahoogroups.com, "Ken McGowan"
<w.one.nyg@g...> wrote:
>
> I have a ts-830, and i'm trying to make a interface to work with CWTYPE.
>

Ken,

Take a look at N0XAS' Universal Keying Adapter 2...it's a $15 kit. I
don't own one but I do have his PicoKeyer kit, which works great.
http://www.hamgadgets.com/product_info.php?products_id=75&osCsid=3a537efe7912cc109c41fdc975c89b29

73,

Barry K4CZ

6544. Re: [TS-520_820_530_830] "Scratchy " receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 17:24:57 UTC
From: Walt Breining
Topic: 6539 Message: 6544

Grant:
You didn't say which rig it was. I often see this in rigs that have been sitting for a while. Often this will get better with use. The problem is the connections between the rotor plates of the tuning capacitor and the frame of it. Carefully remove the cover over the VFO capacitor. On the rear of the capacitor is a spring type thing that connects the rotor plates to the frame of the capacitor. Clean this very well with De Oxit. The scratches will go away. I bet you have a 520 because the readout would be intermittent with the scratches if it were an 820.

Vy 73, Walt N9WB

----- Original Message -----
From: "Grant McDuling" <grantmcduling@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 25, 2006 7:56 PM
Subject: [TS-520_820_530_830] "Scratchy " receive

> Hi Guys,
>
> I am experiencing 'scratchy' receive especially on CW. By this I mean,
> if I tune across the CW portion of the 40m band, the signals don't
> strengthen up as the dial sweeps across the transmitting frequency,
> they are very broken up and scratchy until I stop the dial on the
> frequency; then it sounds normal. Is there something that needs
> attention in the receive circuit? Has anyone come across something like
> this before. It's a little difficult to explain, but I hope you get the
> idea.
>
>
> Grant VK4JAZ
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6545. Re: [TS-520_820_530_830] RE: [SolidCpyCW] Re: Rain Gutter Antenna

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-26 18:58:37 UTC
From: Walt Breining
Topic: 6536 Message: 6545

1. It does not make any difference which way you run the wires.
2. You need an antenna tuner that will accept balanced line or an antenna tuner and a balun.
Vy 73, Walt N9WB

----- Original Message -----
From: "William Bottger" <billabott@...>
To: <SolidCpyCW@yahoogroups.com>; <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 25, 2006 12:13 PM
Subject: [TS-520_820_530_830] RE: [SolidCpyCW] Re: Rain Gutter Antenna

>
>
> CQ CQ CQ,
>
> I have the Kenwood TS-520, 25 ft of ladder line, and wire for dipole.
> My question is: does it matter if the wire is run North-South or East-West
> or NW-SE?
>
> What is required since I do not have an antenna tuner?
>
>
>
> KI4CYM, Bill
>
> 334-262-4601
>
> Packet8 Phone User
>
> 334-239-4136
>
> VoIP Rules
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>
>

6546. One more mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-27 02:53:43 UTC
From: Bill
Topic: 6546 Message: 6546

I have my new (to me) TS830 on its way. In an effort to be prepared to check it out when it arrives, I needed to round up a mic for that radio. I have been given a Kenwood mic that came off of a dead TR 7730 (2 mtr FM mobile). It is a 6 pin (up/down buttons), 500 ohm, dynamic mic. I have a spare 4 pin plug and the schematic to wire it up.

So, is anyone familiar with this mic and should it be adequate until I can get an mc-50 or an equivalent? Any warnings to pass along while I prep the mic plug? Thanks - Bill

6547. BS5 mod to BS8 for SM220 ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-27 10:14:15 UTC
From: vk2icj
Topic: 6547 Message: 6547

Hello

I'm looking for a SM-220 to compliment my TS820. I have a fellow who has a SM220 with the BS5 installed. Can this be modded easily (by me so real easily) for use with the 820?

tks

Chris VK2ICJ

6548. Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-27 17:47:33 UTC
From: Ira
Topic: 6548 Message: 6548

Has anyone tried this kit from International Radio out?

"Fits inside radio. Increases power output 25% or more (with good 6146 tubes)"

http://www.qth.com/inrad/

I didn't see this mentioned in any of the message archives, so I thought I'd ask.

73,
Ira KB3I

6549. TS530S - No LCD Read-out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-27 23:33:42 UTC
From: robthomson1234
Topic: 6549 Message: 6549

Dear All

Before I go mad, ripping rig apart, does anyone know cure for following scenario?

Rig fuse blew (don't know how - hadn't used for ages), got new fuse, "Power On" now good but no LCD frequency read-out.

By the way, when I first powered the rig back up, I am sure that the LCD display was there briefly, but faded to nothing.

Regards
Rob, G4LMW

6550. Re: TS530S - No LCD Read-out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 02:22:40 UTC
From: james27613
Topic: 6549 Message: 6550

hi rob,

Since the radio was not used in a long time,
best to check all ground screws at the
pc boards, sometimes there are poor
connections and the radio will not work properly.

73 james ke4drn

6551. Re: Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 02:44:35 UTC
From: pjcoombs@frontiernet.net
Topic: 6548 Message: 6551

Ira, I wonder what you could be getting for $15?
http://www.qth.com/inrad/kits.htm#kenwood
jay, kb9wwq
>Message: 2
> Date: Fri, 27 Jan 2006 17:47:33 -0000
> From: "Ira" <irawex@...>
>Subject: Inrad QRO Kit?
>
>Has anyone tried this kit from International Radio out?
>
>"Fits inside radio. Increases power output 25% or more (with good 6146
>tubes)"
>
>http://www.qth.com/inrad/
>
>I didn't see this mentioned in any of the message archives, so I
>thought I'd ask.
>
>73,
>Ira KB3I
>

6552. Re: One more mic question/Need wiring help

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 04:13:22 UTC
From: Bill
Topic: 6546 Message: 6552

Well, I started wiring the 4 pin for the mic mentioned below and ran into some trouble. It turns out there are only five conductors (not six). One of N9WB's prior postings, along with Kwd's mic wiring diagram plainly describe the 4-pin requirements. The #4 position requires a wire from the mic ground My problem is identifying the remaining wire for that #4 position. On the 6-pin diagram - nothing is identified with that function.

The there is a black wire coming off of the mic element that is soldered to the bare ground wire, along with one coming from the up/down switch and the ptt switch. Should I detach that wire and attach it to one from the (now useless) up/down switches to provide that path/position? Or am I really messing this thing up? Does this make any sense?

Thanks,

Bill

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...> wrote:
>
> I have my new (to me) TS830 on its way. In an effort to be prepared
to
> check it out when it arrives, I needed to round up a mic for that
> radio. I have been given a Kenwood mic that came off of a dead TR
7730
> (2 mtr FM mobile). It is a 6 pin (up/down buttons), 500 ohm, dynamic
> mic. I have a spare 4 pin plug and the schematic to wire it up.
>
> So, is anyone familiar with this mic and should it be adequate until
I
> can get an mc-50 or an equivalent? Any warnings to pass along while I
> prep the mic plug? Thanks - Bill
>

6553. Re: [TS-520_820_530_830] Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 04:30:35 UTC
From: Walt Breining
Topic: 6548 Message: 6553

I personally do not recommend this. Some very knowledgeable people who I have a great respect for do however. A 25% increase is about a 1 dB increase. You are reducing the life of the tubes, increasing the stress on the transformer and HV rectifier board. One of the good things about hybrid rigs that use 6146 tubes is that they are far more forgiving than those that use 6JS6 tubes. This will reduce this cushion, so to speak. And all for a 1 dB increase? Remember an S unit is 6 dB so this increase is 1/6 of an S unit. Although I have never measured this, I expect that this radio "Hot Rodding" will reduce linearity and increase IMD products. Remember that the components in these rigs are not getting any younger.

Using better coax, better connectors, tuning the antenna more closely, or installing the antenna better or installing a better antenna is a better way to get at least 1 dB improvement. Also many can benefit from a better sounding mike or some quality speech processing.

Or, if you really need more soup, get an amplifier.

My 820 is my "pet" radio. I would not do that to it.

Just my opinion.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ira" <irawex@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 27, 2006 12:47 PM
Subject: [TS-520_820_530_830] Inrad QRO Kit?

> Has anyone tried this kit from International Radio out?
>
> "Fits inside radio. Increases power output 25% or more (with good 6146
> tubes)"
>
> http://www.qth.com/inrad/
>
> I didn't see this mentioned in any of the message archives, so I
> thought I'd ask.
>
> 73,
> Ira KB3I
>
>
>
>
>

>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6554. Re: "Scratchy " receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 05:29:06 UTC
From: Grant McDuling
Topic: 6539 Message: 6554

Walt,

Mny tks fer ur reply. My rig is a 520se, and your diagnisis sure makes sense. I will try what you suggest.

73s
Grant VK4JAZ

6555. Re: [TS-520_820_530_830] Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 06:51:24 UTC
From: Peter A Markavage
Topic: 6548 Message: 6555

Like Walt, I wouldn't recommend it either. Had an 830 several years ago
that I got on a trade that had the QRO kit in it. Ran it side by side
with my own 830 that didn't have the QRO kit. Same mike and same antenna,
the receiver at the other end could not hear or see any difference in
signal strength. Sold the 830 with the QRO kit several months later to a
guy about 20 miles from me. Less than a year later, he was on a search
for a replacement power transformer for that 830. Want a better signal;
put up a better antenna or get yourself a linear.

Pete, wa2cwa

On Fri, 27 Jan 2006 23:30:35 -0500 "Walt Breining" <n9wb@...>
writes:
I personally do not recommend this. Some very knowledgeable people who I
have a great respect for do however. A 25% increase is about a 1 dB
increase. You are reducing the life of the tubes, increasing the stress
on
the transformer and HV rectifier board. One of the good things about
hybrid
rigs that use 6146 tubes is that they are far more forgiving than those
that
use 6JS6 tubes. This will reduce this cushion, so to speak. And all for
a
1 dB increase? Remember an S unit is 6 dB so this increase is 1/6 of an S
unit. Although I have never measured this, I expect that this radio "Hot
Rodding" will reduce linearity and increase IMD products. Remember that
the
components in these rigs are not getting any younger.

Using better coax, better connectors, tuning the antenna more closely, or
installing the antenna better or installing a better antenna is a better
way
to get at least 1 dB improvement. Also many can benefit from a better
sounding mike or some quality speech processing.

Or, if you really need more soup, get an amplifier.

My 820 is my "pet" radio. I would not do that to it.

Just my opinion.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ira" <irawex@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 27, 2006 12:47 PM

Subject: [TS-520_820_530_830] Inrad QRO Kit?

> Has anyone tried this kit from International Radio out?
>
> "Fits inside radio. Increases power output 25% or more (with good 6146
> tubes)"
>
> http://www.qth.com/inrad/
>
> I didn't see this mentioned in any of the message archives, so I
> thought I'd ask.
>
> 73,
> Ira KB3I
>

[Non-text portions of this message have been removed]

6556. Re: [TS-520_820_530_830] Re: One more mic question/Need wiring help

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 07:28:42 UTC
From: Walt Breining
Topic: 6546 Message: 6556

The Shield wire goes to pin 4. The wire surrounded by the shield goes to pin 1. Remove the wire that goes to the shield from the switch, and replace it with one of the now unused up/down wires. At the plug end connect the other end of this former up/down wire to pin 3 on the mike plug to provide a separate ground for the switch going to pin 3. Now this wire will be connected to a wire coming from pin 2 when the switch is depressed.

The shield ground will be pin 4. The switch ground will be grounded at pin 3.

These actually go to two different ground points inside of the radio. Sometimes you can use pin 4 for both audio and switch ground, but often this causes RF problems due to a ground loop.

If this is confusing, please tell me the color of the wires and where they go in the mike.

Vy 73, Walt N9WB

----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 27, 2006 11:13 PM
Subject: [TS-520_820_530_830] Re: One more mic question/Need wiring help

> Well, I started wiring the 4 pin for the mic mentioned below and ran
> into some trouble. It turns out there are only five conductors (not
> six). One of N9WB's prior postings, along with Kwd's mic wiring diagram
> plainly describe the 4-pin requirements. The #4 position requires a
> wire from the mic ground My problem is identifying the remaining wire
> for that #4 position. On the 6-pin diagram - nothing is identified
> with that function.
>
> The there is a black wire coming off of the mic element that is
> soldered to the bare ground wire, along with one coming from the
> up/down switch and the ptt switch. Should I detach that wire and
> attach it to one from the (now useless) up/down switches to provide
> that path/position? Or am I really messing this thing up? Does this
> make any sense?
>
> Thanks,
>
> Bill
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...> wrote:
> >

> > I have my new (to me) TS830 on its way. In an effort to be prepared
> to
> > check it out when it arrives, I needed to round up a mic for that
> > radio. I have been given a Kenwood mic that came off of a dead TR
> 7730
> > (2 mtr FM mobile). It is a 6 pin (up/down buttons), 500 ohm, dynamic
> > mic. I have a spare 4 pin plug and the schematic to wire it up.
> >
> > So, is anyone familiar with this mic and should it be adequate until
> I
> > can get an mc-50 or an equivalent? Any warnings to pass along while I
> > prep the mic plug? Thanks - Bill
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6557. MC-50 Mic & 530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 07:07:47 UTC
From: joe sloss
Topic: 6557 Message: 6557

In QSO with a friend I noticed that his audio was a bit on the bassy side. A few more highs would have made it easier copy. Are there any tricks of the trade that can be done to the mic to increase highs without digging into the 530S?

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

6558. Re: [TS-520_820_530_830] Re: Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 09:12:47 UTC
From: Walt Breining
Topic: 6548 Message: 6558

What you get is some parts, mostly resistors and the knowlege about how to do this. There may be a diode and some small caps, I can't remember. What it does is raises the screen voltage and makes some changes in the ALC to accomodate this change. If this is what you want to do, the kit is worth the money and the modification works well. And I will admit the increased stress it puts on the rig is small. But as I said before, It slightly increases the stress on the rig, it only gains 1 dB or 1/6 of an S unit and I don't want to increase the stress on my rig even slightly, for an increase that will never be noticed on the air.

If you really want to make an 820 sound stronger, and you use the processor, get the TOG mod for the TS-820 speech processor. It will make the processor brighter and louder. I personally do not like it because I am an audio purist and I don't care for the 820 processor. I use external processing of my own. I tried the TOG processor mod in an earlier 820 and it did make the processor better. I didn't bother to put it in my "pet" 820 because I am building an external processor that meets my personal criteria much better.

Vy 73, Walt N9WB

> Ira, I wonder what you could be getting for $15?
> http://www.qth.com/inrad/kits.htm#kenwood
> jay, kb9wwq
> >Message: 2
> > Date: Fri, 27 Jan 2006 17:47:33 -0000
> > From: "Ira" <irawex@...>
> >Subject: Inrad QRO Kit?
> >
> >Has anyone tried this kit from International Radio out?
> >
> >"Fits inside radio. Increases power output 25% or more (with good 6146
> >tubes)"
> >
> >http://www.qth.com/inrad/
> >
> >I didn't see this mentioned in any of the message archives, so I
> >thought I'd ask.
> >
> >73,
> >Ira KB3I
> >
>
>
>
>
> Yahoo! Groups Links

>
>
>
>
>
>
>

6559. Re: [TS-520_820_530_830] Mic excess bass

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 09:45:05 UTC
From: Dave and Loraine
Topic: 6559 Message: 6559

My MC-50 'toilet roll' mod (thanks Walt) on my TS-820S made all the difference by increasing top
and middle. If I remove it during a QSO, I'm asked to put it back.

If close-talking the mike is causing increased bass, try a little distance and compensate by mic
gain to maintain proper ALC. If not, a small series cap will decrease bass.

73
Dave F4EYK

6560. Re: [TS-520_820_530_830] Mic excess bass

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 10:33:20 UTC
From: Walt Breining
Topic: 6559 Message: 6560

Slide a toilet paper tube over the slots on the side. If you carefully cut it to about the length of the slots, you can slide it up to cover all of the slots or back to slightly expose them for the correct tone balance.

vy 73, Walt N9WB

----- Original Message -----
From: "Dave and Loraine" <dave.crooks@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 4:45 AM
Subject: Re: [TS-520_820_530_830] Mic excess bass

> My MC-50 'toilet roll' mod (thanks Walt) on my TS-820S made all the difference by increasing top
> and middle. If I remove it during a QSO, I'm asked to put it back.
>
> If close-talking the mike is causing increased bass, try a little distance and compensate by mic
> gain to maintain proper ALC. If not, a small series cap will decrease bass.
>
> 73
> Dave F4EYK
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6561. Re: [TS-520_820_530_830] Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 12:40:44 UTC
From: w3iz
Topic: 6548 Message: 6561

I gave Ira pretty much the same advice off reflector.

The ironic thing is that I met Ira for the first time on the air the night before his post and his TS-830 sounds great.

Leave it alone.

Want more boost then make a better antenna and get an amplifier.
73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Walt Breining" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, January 27, 2006 11:30 PM
Subject: Re: [TS-520_820_530_830] Inrad QRO Kit?

>I personally do not recommend this. Some very knowledgeable people who I
> have a great respect for do however. A 25% increase is about a 1 dB
> increase. You are reducing the life of the tubes, increasing the stress on
> the transformer and HV rectifier board. One of the good things about
> hybrid
> rigs that use 6146 tubes is that they are far more forgiving than those
> that
> use 6JS6 tubes. This will reduce this cushion, so to speak. And all for
> a
> 1 dB increase? Remember an S unit is 6 dB so this increase is 1/6 of an S
> unit. Although I have never measured this, I expect that this radio "Hot
> Rodding" will reduce linearity and increase IMD products. Remember that
> the
> components in these rigs are not getting any younger.
>
> Using better coax, better connectors, tuning the antenna more closely, or
> installing the antenna better or installing a better antenna is a better
> way
> to get at least 1 dB improvement. Also many can benefit from a better
> sounding mike or some quality speech processing.
>
> Or, if you really need more soup, get an amplifier.
>
> My 820 is my "pet" radio. I would not do that to it.
>
> Just my opinion.
>
> Vy 73, Walt N9WB
>

> ----- Original Message -----
> From: "Ira" <irawex@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 27, 2006 12:47 PM
> Subject: [TS-520_820_530_830] Inrad QRO Kit?
>
>
>> Has anyone tried this kit from International Radio out?
>>
>> "Fits inside radio. Increases power output 25% or more (with good 6146
>> tubes)"
>>
>> http://www.qth.com/inrad/
>>
>> I didn't see this mentioned in any of the message archives, so I
>> thought I'd ask.
>>
>> 73,
>> Ira KB3I
>>
>>
>>
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>>
>>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6562. Re: [TS-520_820_530_830] Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 13:23:56 UTC
From: Walt Breining
Topic: 6548 Message: 6562

I never knew what rig he had. If it is an 830 and not an 820 his processor
is superior as is. I would not touch that either. Except for the bandswitch
issues, the 830 is one of the best rigs ever made. Walt N9WB
----- Original Message -----
From: "w3iz" <w3iz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 7:40 AM
Subject: Re: [TS-520_820_530_830] Inrad QRO Kit?

> I gave Ira pretty much the same advice off reflector.
>
> The ironic thing is that I met Ira for the first time on the air the night
> before his post and his TS-830 sounds great.
>
> Leave it alone.
>
> Want more boost then make a better antenna and get an amplifier.
> 73,
> Norm, W3IZ
> www.w3iz.com
> ----- Original Message -----
> From: "Walt Breining" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 27, 2006 11:30 PM
> Subject: Re: [TS-520_820_530_830] Inrad QRO Kit?
>
>
> >I personally do not recommend this. Some very knowledgeable people who I
> > have a great respect for do however. A 25% increase is about a 1 dB
> > increase. You are reducing the life of the tubes, increasing the stress
on
> > the transformer and HV rectifier board. One of the good things about
> > hybrid
> > rigs that use 6146 tubes is that they are far more forgiving than those
> > that
> > use 6JS6 tubes. This will reduce this cushion, so to speak. And all
for
> > a
> > 1 dB increase? Remember an S unit is 6 dB so this increase is 1/6 of an
S
> > unit. Although I have never measured this, I expect that this radio
"Hot
> > Rodding" will reduce linearity and increase IMD products. Remember that
> > the
> > components in these rigs are not getting any younger.

> >
> > Using better coax, better connectors, tuning the antenna more closely,
or
> > installing the antenna better or installing a better antenna is a better
> > way
> > to get at least 1 dB improvement. Also many can benefit from a better
> > sounding mike or some quality speech processing.
> >
> > Or, if you really need more soup, get an amplifier.
> >
> > My 820 is my "pet" radio. I would not do that to it.
> >
> > Just my opinion.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "Ira" <irawex@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, January 27, 2006 12:47 PM
> > Subject: [TS-520_820_530_830] Inrad QRO Kit?
> >
> >
> >> Has anyone tried this kit from International Radio out?
> >>
> >> "Fits inside radio. Increases power output 25% or more (with good 6146
> >> tubes)"
> >>
> >> http://www.qth.com/inrad/
> >>
> >> I didn't see this mentioned in any of the message archives, so I
> >> thought I'd ask.
> >>
> >> 73,
> >> Ira KB3I
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >> Yahoo! Groups Links
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>

> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6563. Re: Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 13:48:50 UTC
From: Ira
Topic: 6548 Message: 6563

Thanks to all for your responses. Mostly, I was curious what was going on effect the increase as claimed by Inrad, which Walt answered.

I'm very happy with the TS830. I came back into ham radio last summer, after a 30 year hiatus, and I was considering everything from an Apache/HQ170 (my K3PAK rig in 1962) to an IC718 or 706 for my first 'get back into the hobby' rig, and the '830 fit the niche. I got a good deal on Ebay, and I've been surprised how well this gets out to work some nice DX with my stealth wire. Matter of fact, I picked up another 830 I'm restoring as a backup (broken bandswitch coupling).

Thanks again to all!
73, KB3I Ira

6564. Re: [TS-520_820_530_830] Mic excess bass

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 13:56:19 UTC
From: dennis hatch
Topic: 6559 Message: 6564

Toilet roll can be eliminated by using a heat gun to soften the assembly adhesive of the mic grill and using "construction paper" insert a rolled tube inside the mic grill. Then reassemble using a small amount of clear silicone rubber.

Some people like the toilet paper roll on the mic!! So what ever "turns you on"....

73 WA0WAB

Dave and Loraine <dave.crooks@...> wrote:
My MC-50 'toilet roll' mod (thanks Walt) on my TS-820S made all the difference by increasing top
and middle. If I remove it during a QSO, I'm asked to put it back.

If close-talking the mike is causing increased bass, try a little distance and compensate by mic
gain to maintain proper ALC. If not, a small series cap will decrease bass.

73
Dave F4EYK

Yahoo! Groups Links

Bring words and photos together (easily) with
PhotoMail - it's free and works with Yahoo! Mail.

[Non-text portions of this message have been removed]

6565. Re: One more mic question/Need wiring help

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 14:01:11 UTC
From: Bill
Topic: 6546 Message: 6565

Thanks Walt for your help ...

Yup, I am a little confused. On this mic (remember it is a 500 ohm/Knwd dynamic mic from an old TR7730)there are 5 conductors. There is no "shield" but there is a bare/non-insulated wire. The original pin-out is as described in the Knwd Misc Connectors TSB. Or = Pin 1 has a white wire for "microphone" and it does come from one side of the mic element. Pin 2 has a heavy black wire and it comes from one side of the switch. Then pin 3 has a blue wire which goes to the "down" switch. Pin 4 has a red wire, going to the up switch. Pin 5 is vacant. Pin 6, in the middle, has the bare wire and is labled chassis ground. This wire has three black mic wires attached - one from the switch, one from the mic element and one from the up/down circuit board.

Now, here is where my confusion lies (or at least some of it), you noted that pin 4 should have the shield. I assuming this can be equated with the bare wire (from the original pin 6). But, the same Kenwood Service letter (and my pdf copy of the TS830 manual) shows pin 3 = "Chassis Ground" or PTT ground. Then, pin 4 shows to be the mic ground. Or does it really matter and I am making this harder than it really is?

Actually, this is kinda fun and is why I am getting an 830 in the first place - in order to learn/re-learn much of what I have forgotten. Just wait till I get open up and get inside that box!

73,
Bill

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@n...> wrote:
>
> The Shield wire goes to pin 4. The wire surrounded by the shield goes to
> pin 1. Remove the wire that goes to the shield from the switch, and replace
> it with one of the now unused up/down wires. At the plug end connect the
> other end of this former up/down wire to pin 3 on the mike plug to provide a
> separate ground for the switch going to pin 3. Now this wire will be
> connected to a wire coming from pin 2 when the switch is depressed.
>
> The shield ground will be pin 4. The switch ground will be

grounded at pin
> 3.
>
> These actually go to two different ground points inside of the
radio.
> Sometimes you can use pin 4 for both audio and switch ground, but
often this
> causes RF problems due to a ground loop.
>
> If this is confusing, please tell me the color of the wires and
where they
> go in the mike.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Bill" <wb5dx@a...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, January 27, 2006 11:13 PM
> Subject: [TS-520_820_530_830] Re: One more mic question/Need
wiring help
>
>
> > Well, I started wiring the 4 pin for the mic mentioned below and
ran
> > into some trouble. It turns out there are only five conductors
(not
> > six). One of N9WB's prior postings, along with Kwd's mic wiring
diagram
> > plainly describe the 4-pin requirements. The #4 position
requires a
> > wire from the mic ground My problem is identifying the
remaining wire
> > for that #4 position. On the 6-pin diagram - nothing is
identified
> > with that function.
> >
> > The there is a black wire coming off of the mic element that is
> > soldered to the bare ground wire, along with one coming from the
> > up/down switch and the ptt switch. Should I detach that wire and
> > attach it to one from the (now useless) up/down switches to
provide
> > that path/position? Or am I really messing this thing up? Does
this
> > make any sense?
> >
> > Thanks,
> >
> > Bill
> >

> > --- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...>
wrote:
> > >
> > > I have my new (to me) TS830 on its way. In an effort to be
prepared
> > to
> > > check it out when it arrives, I needed to round up a mic for
that
> > > radio. I have been given a Kenwood mic that came off of a
dead TR
> > 7730
> > > (2 mtr FM mobile). It is a 6 pin (up/down buttons), 500 ohm,
dynamic
> > > mic. I have a spare 4 pin plug and the schematic to wire it
up.
> > >
> > > So, is anyone familiar with this mic and should it be adequate
until
> > I
> > > can get an mc-50 or an equivalent? Any warnings to pass along
while I
> > > prep the mic plug? Thanks - Bill
> > >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

6566. Re: [TS-520_820_530_830] Re: Inrad QRO Kit?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 14:31:25 UTC
From: Stephen Goldberg
Topic: 6548 Message: 6566

Found this on a Kenwood Mod site on the web. Thought it might be of interest.

Steve W4IMF

I would like to pass on the problem I have encountered in connection with the QRO modification to the Kenwood radios TS830S, TS-530S and the TS-530SP.

The problem occurs after many hours of long winded QSO's. It seems that with the increase in the screen voltage from 210 to 300 volts, R37 on the RF unit (#X44-1360-00) heats up tremendously and will change it's value so greatly that even the receive either suffers or goes out totally. R37 originally is Metalfilm resistor at 3.3K ohms and is 1/2 watt.

I have changed mine to a Metalfilm as original same value but have used a one watt resistor. The brand I was able to get was RCA and I suppose there are better on the market. This is a 2% tolerance. Three units that I know of have had this problem that I took care of in this area alone. Two units were TS-830S and one a TS-530SP. Just thought I would pass that information along for what it is worth. (Thanks, Frank J. Lukas, Jr., 5301 Main Ave., North Ridgeville, OH 44039)

----- Original Message -----
From: "Ira" <irawex@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 8:48 AM
Subject: [TS-520_820_530_830] Re: Inrad QRO Kit?

> Thanks to all for your responses. Mostly, I was curious what was
> going on effect the increase as claimed by Inrad, which Walt answered.
>
> I'm very happy with the TS830. I came back into ham radio last
> summer, after a 30 year hiatus, and I was considering everything from
> an Apache/HQ170 (my K3PAK rig in 1962) to an IC718 or 706 for my first
> 'get back into the hobby' rig, and the '830 fit the niche. I got a
> good deal on Ebay, and I've been surprised how well this gets out to
> work some nice DX with my stealth wire. Matter of fact, I picked up
> another 830 I'm restoring as a backup (broken bandswitch coupling).
>
> Thanks again to all!
> 73, KB3I Ira
>
>
>
>
>

>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.14.23/243 - Release Date: 1/27/06

6567. TS-820 20M only display dramas Help

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-28 22:41:17 UTC
From: vk2icj
Topic: 6567 Message: 6567

Hello

I'm seeing some odd digital display when using 20 meters only. The other bands do not seem to have this drama.

When tuning the VFo knob between 14.00 and 14.1 MHZ the 10khz digits add an extra line here and there. The 2 looks like a backward 6 , the 5 is a 9, and the 6 is an 8 IE if the
display is supposed to be 14.050 I'm seeing 14.090. If you keep adjusting the freq upwards between 14.1 and 14.11 I see the exact same numbers acting up but now they have moved one decimal place to the right, and the 10khz position is fine. IE if I should be
seeing 14.105 I see 14.109. If I keep tuning upwards I get the same 3 numbers with dramas but again one more decimal to the right. IE 14.110.5 on the display reads 14.110.9

Any thoughts?

thanks in advance
73

Chris VK2ICJ

6568. Another possibly dumb question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-29 00:34:41 UTC
From: Bill
Topic: 6568 Message: 6568

Will the Kenwood AT-250 work with the TS830. I know the tuner is a later vintage, but... Thanks, Bill

6569. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-29 02:33:56 UTC
From: Stephen Davis
Topic: 6457 Message: 6569

Hello All,

Update on my problem with my TS-820S radio. Still no transmit on the radio. The symptom remains the same, that is unable to get any bias reading when trying to tune the rig (if I switch meter to hf position I do get a reading of about 850v). Thanks to Walt, these are the things tried so far in troubleshooting the radio:

Checked the cathode resistors (ok).
Checked Plate chokes for short (ok)
Checked relay on relay board (ok, or I should say contacts are clean and relay moves when I switch from rec to send)
Checked SG switch (ok)
Filaments light in all three tubes.
Substituted all three tubes, no change in symptoms.

Any thoughts on the next steps I should take to troubleshoot this would be appreciated. I really would like to get this rig on the air!

Thanks

Steve - K7QHU

From: Stephen Davis [mailto:sdavis@...]
Sent: Thursday, January 19, 2006 8:43 PM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Walt,

You are correct, I am not getting any idle current. All tube filaments are lit. I tried rotating the bias control in the back and keying the send switch as suggested. I did not notice excessive heating at either end of the rotation.

I have removed the relay housing (Omron type MH4P) from the relay board, but having trouble getting the plastic cover off. I am being very gentle so as not to break it, but not haveing much success. Will continue to try. In the meantime, just eyeballing the contacts, the contacts that are in the open position look very clean. I was looking a the schematic (a somewhat fuzzy copy) to try and determine what voltage is used across the coil to open/close the relay, but I could not tell. I was thinking this could be a way to test to make sure at least the relay(s) are opening and closing. If I can determine the voltage, is this a legitimate test? I also measured the resistance across the coil and it was around 380 ohms, which is

the resistance stamped on it, so at least I know the coil is not open or shorted.

I will keep trying to get the plastic case off so I can actually clean the contacts. Just wanted to update you on my progress.

Thanks

Steve
K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Thursday, January 19, 2006 12:42 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

That would indicate that you are not getting drive. And if I understand correctly you are also not getting any idle current. You do not need drive to get idle current.

Let's double check this. Mode on USB or LSB, all tubes installed, SG on mike gain down, Filament switch on, Meter in IP. Key rig with send switch and watch the IP meter as you change the Bias control in the back. At one extreme the tubes should draw a lot of current. At the other extreme the tubes will draw little or no current. Do you get a reading on the meter in any bias position. If you do it should be set for 60 MA.

If you do not get a reading, do you notice a lot of heat coming from the final area with the bias control at one extreme or the other? If the bias was working but the meter was not, the tubes would get very hot while in transmit with the bias control at one extreme but not the other. If they do get very hot, unkey so you do not damage the tubes.

Now, check again that all tubes filaments are lighted including the 12BY7. Check this out in a dark room. Be careful and don't fumble into the high voltage!

If you get no idle current, no excess heat that changes with the bias control, and all tubes are lighted, next try removing the relays and inspecting the contacts. Look for burned contacts. Clean them. Remove only 1 relay at a time, as they are not the same although they look alike.

Now I may be making a fool of myself suggesting the relays, but in the limited time I had this afternoon, and with the very poor diagram I have, it seemed that the power source for the bias goes through Q5 on the RF board and comes to Q5 through a relay. I did not have the time to check this out thoroughly at this time, but it might be worth checking the relays. We are looking for a contact that is not conducting on transmit. Be careful when removing the covers on these relays, they are not available any more.

Tell us what you find out and I will try to get a better diagram. I have one on hard copy, but it is not here.

BTW, the rig should operate with the CW key unpluged.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, January 18, 2006 7:49 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hi Walt,
>
> Following your latest instructions, here are the results:
>
> 1. Both plate chokes show 0 ohms when measured as you described.
>
> 2. Putting black lead to top of choke and red lead to ground, it shows a low
> resistance to start with, then builds to a high resistance (about 400k).
>
> 3 Putting the red lead to the top of the choke and the black lead to ground,
> it shows a resistance of about 400k. (somehow I must of goofed up my
> original measurement).
>
> 4. I hooked up the dummy load, heater switch on, set the SG switch to off,
> meter to ALC, carrier fully clockwise. Toggled rec/send switch to send and
> held down the cw key while adjusting the drive control through-out its
> range. No movement of the meter.
>
> 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> selector switch there is a 250/1000 vdc position. I would be extremely
> cautious making any high voltage measurements.
>
> Thanks again for your help. It would really be neat if we can actually
> solve this problem!
>
> 73
>
> Steve K7QHU
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby

&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.s
ig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+ho
bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101
&.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=10
1&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

_____

[Non-text portions of this message have been removed]

6570. Re: Another possibly dumb question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-29 06:50:30 UTC
From: vk2icj
Topic: 6568 Message: 6570

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...> wrote:
>
> Will the Kenwood AT-250 work with the TS830. I know the tuner is a
> later vintage, but... Thanks, Bill
>

If you look at the reviews on eham for the AT-250 there is a ham using this tuner with the 830. There is mention of a special cable needed to interface the rig. Which one and how to use it I don't know.

What sort of antenna do you plan on using? The 830 itself will tune a lot of antennas.

Some of the fun in owning these rigs is all the adjustments that need to be made to operate them. Using a auto tuner takes away some of the fun if you ask me. An AT-200 or AT-230 will give you some more knobs and switches to play with. The 200 does not have the WARC bands. If it was me I'd get a AT-230 or another manual tuner for your rig.

Cheers Mate

Chris VK2ICJ

6571. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-29 12:31:54 UTC
From: Walt Breining
Topic: 6457 Message: 6571

I am assuming the following. If I an wrong, please tell me.

With the rig keyed in SSB, mike gain down, meter in the IP position, no matter where you adjust the bias pot on the back of the rig you get no IP reading?

Assuming the above, with the rig keyed and set as above, Measure the voltage to ground on the terminal on each end of the Bias pot. Then place the meter on the center terminal and see if the voltage changes as you rotate this control. Give me readings with this full CCW, fully CW and center.

Unless you read 0 voltage on the center of the Bias pot in all positions, go to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when you have done this.

Vy 73, Walt.

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 9:33 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> Update on my problem with my TS-820S radio. Still no transmit on the
> radio. The symptom remains the same, that is unable to get any bias
reading
> when trying to tune the rig (if I switch meter to hf position I do get a
> reading of about 850v). Thanks to Walt, these are the things tried so far
> in troubleshooting the radio:
>
> Checked the cathode resistors (ok).
> Checked Plate chokes for short (ok)
> Checked relay on relay board (ok, or I should say contacts are clean
> and relay moves when I switch from rec to send)
> Checked SG switch (ok)
> Filaments light in all three tubes.
> Substituted all three tubes, no change in symptoms.
>
> Any thoughts on the next steps I should take to troubleshoot this
would
> be appreciated. I really would like to get this rig on the air!
>
> Thanks
>

> Steve - K7QHU
>
> _____
>
> From: Stephen Davis [mailto:sdavis@...]
> Sent: Thursday, January 19, 2006 8:43 PM
> To: 'TS-520_820_530_830@yahoogroups.com'
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> Hi Walt,
>
> You are correct, I am not getting any idle current. All tube
filaments
> are lit. I tried rotating the bias control in the back and keying the
send
> switch as suggested. I did not notice excessive heating at either end of
> the rotation.
>
> I have removed the relay housing (Omron type MH4P) from the relay
> board, but having trouble getting the plastic cover off. I am being very
> gentle so as not to break it, but not haveing much success. Will continue
> to try. In the meantime, just eyeballing the contacts, the contacts that
> are in the open position look very clean. I was looking a the schematic
(a
> somewhat fuzzy copy) to try and determine what voltage is used across the
> coil to open/close the relay, but I could not tell. I was thinking this
> could be a way to test to make sure at least the relay(s) are opening and
> closing. If I can determine the voltage, is this a legitimate test? I
also
> measured the resistance across the coil and it was around 380 ohms, which
is
> the resistance stamped on it, so at least I know the coil is not open or
> shorted.
>
> I will keep trying to get the plastic case off so I can actually
clean
> the contacts. Just wanted to update you on my progress.
>
> Thanks
>
> Steve
> K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Thursday, January 19, 2006 12:42 PM
> To: TS-520_820_530_830@yahoogroups.com

> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> That would indicate that you are not getting drive. And if I understand
> correctly you are also not getting any idle current. You do not need
drive
> to get idle current.
>
> Let's double check this. Mode on USB or LSB, all tubes installed, SG on
mike
> gain down, Filament switch on, Meter in IP. Key rig with send switch and
> watch the IP meter as you change the Bias control in the back. At one
> extreme the tubes should draw a lot of current. At the other extreme the
> tubes will draw little or no current. Do you get a reading on the meter
in
> any bias position. If you do it should be set for 60 MA.
>
> If you do not get a reading, do you notice a lot of heat coming from the
> final area with the bias control at one extreme or the other? If the bias
> was working but the meter was not, the tubes would get very hot while in
> transmit with the bias control at one extreme but not the other. If they
do
> get very hot, unkey so you do not damage the tubes.
>
> Now, check again that all tubes filaments are lighted including the 12BY7.
> Check this out in a dark room. Be careful and don't fumble into the high
> voltage!
>
> If you get no idle current, no excess heat that changes with the bias
> control, and all tubes are lighted, next try removing the relays and
> inspecting the contacts. Look for burned contacts. Clean them. Remove only
1
> relay at a time, as they are not the same although they look alike.
>
> Now I may be making a fool of myself suggesting the relays, but in the
> limited time I had this afternoon, and with the very poor diagram I have,
it
> seemed that the power source for the bias goes through Q5 on the RF board
> and comes to Q5 through a relay. I did not have the time to check this
out
> thoroughly at this time, but it might be worth checking the relays. We are
> looking for a contact that is not conducting on transmit. Be careful when
> removing the covers on these relays, they are not available any more.
>
>
> Tell us what you find out and I will try to get a better diagram. I have
> one on hard copy, but it is not here.
>
> BTW, the rig should operate with the CW key unpluged.
>

> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, January 18, 2006 7:49 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hi Walt,
> >
> > Following your latest instructions, here are the results:
> >
> > 1. Both plate chokes show 0 ohms when measured as you described.
> >
> > 2. Putting black lead to top of choke and red lead to ground, it shows a
> low
> > resistance to start with, then builds to a high resistance (about 400k).
> >
> > 3 Putting the red lead to the top of the choke and the black lead to
> ground,
> > it shows a resistance of about 400k. (somehow I must of goofed up my
> > original measurement).
> >
> > 4. I hooked up the dummy load, heater switch on, set the SG switch to
off,
> > meter to ALC, carrier fully clockwise. Toggled rec/send switch to send
> and
> > held down the cw key while adjusting the drive control through-out its
> > range. No movement of the meter.
> >
> > 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> > selector switch there is a 250/1000 vdc position. I would be extremely
> > cautious making any high voltage measurements.
> >
> > Thanks again for your help. It would really be neat if we can actually
> > solve this problem!
> >
> > 73
> >
> > Steve K7QHU
> >
>
>
>
>
> SPONSORED LINKS
> Ham

>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>
3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig
> =NStjWgsFtXmQaGrYd1LT5w> radio Craft
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>
&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.s
> ig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
> =5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
> Icom
>
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+ho
>
bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101
> &.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu
>
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+h
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=10
> 1&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>

>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6572. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-29 18:51:52 UTC
From: Stephen Davis
Topic: 6457 Message: 6572

Hi Walt,

Your first paragraph is correct.

I took the following measurements at the bias pot.

Bias pot fully counterclockwise: left terminal -95v center terminal -105v right terminal -105v
Bias pot centered: left terminal -95v center terminal -95v right terminal -105v
Bias pot fully clockwise left terminal -95v center terminal -95v right terminal -105v

I took measurments with mode set to lsb, band set to 40 meters, mike gain down and with the send receive switch in the send position. All other controls set per the table in the manual for initial transmit tuning.

I am on the way to Radio Shack to pick up the resistors.

Thanks

Steve

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Sunday, January 29, 2006 5:32 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

I am assuming the following. If I an wrong, please tell me.

With the rig keyed in SSB, mike gain down, meter in the IP position, no matter where you adjust the bias pot on the back of the rig you get no IP reading?

Assuming the above, with the rig keyed and set as above, Measure the voltage to ground on the terminal on each end of the Bias pot. Then place the meter on the center terminal and see if the voltage changes as you rotate this control. Give me readings with this full CCW, fully CW and center.

Unless you read 0 voltage on the center of the Bias pot in all positions, go to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when you have done this.

Vy 73, Walt.

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 9:33 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> Update on my problem with my TS-820S radio. Still no transmit on the
> radio. The symptom remains the same, that is unable to get any bias
reading
> when trying to tune the rig (if I switch meter to hf position I do get a
> reading of about 850v). Thanks to Walt, these are the things tried so far
> in troubleshooting the radio:
>
> Checked the cathode resistors (ok).
> Checked Plate chokes for short (ok)
> Checked relay on relay board (ok, or I should say contacts are clean
> and relay moves when I switch from rec to send)
> Checked SG switch (ok)
> Filaments light in all three tubes.
> Substituted all three tubes, no change in symptoms.
>
> Any thoughts on the next steps I should take to troubleshoot this
would
> be appreciated. I really would like to get this rig on the air!
>
> Thanks
>
> Steve - K7QHU
>
> _____
>
> From: Stephen Davis [mailto:sdavis@...]
> Sent: Thursday, January 19, 2006 8:43 PM
> To: 'TS-520_820_530_830@yahoogroups.com'
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> Hi Walt,
>
> You are correct, I am not getting any idle current. All tube
filaments
> are lit. I tried rotating the bias control in the back and keying the
send
> switch as suggested. I did not notice excessive heating at either end of
> the rotation.
>
> I have removed the relay housing (Omron type MH4P) from the relay
> board, but having trouble getting the plastic cover off. I am being very
> gentle so as not to break it, but not haveing much success. Will continue

> to try. In the meantime, just eyeballing the contacts, the contacts that
> are in the open position look very clean. I was looking a the schematic
(a
> somewhat fuzzy copy) to try and determine what voltage is used across the
> coil to open/close the relay, but I could not tell. I was thinking this
> could be a way to test to make sure at least the relay(s) are opening and
> closing. If I can determine the voltage, is this a legitimate test? I
also
> measured the resistance across the coil and it was around 380 ohms, which
is
> the resistance stamped on it, so at least I know the coil is not open or
> shorted.
>
> I will keep trying to get the plastic case off so I can actually
clean
> the contacts. Just wanted to update you on my progress.
>
> Thanks
>
> Steve
> K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Thursday, January 19, 2006 12:42 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> That would indicate that you are not getting drive. And if I understand
> correctly you are also not getting any idle current. You do not need
drive
> to get idle current.
>
> Let's double check this. Mode on USB or LSB, all tubes installed, SG on
mike
> gain down, Filament switch on, Meter in IP. Key rig with send switch and
> watch the IP meter as you change the Bias control in the back. At one
> extreme the tubes should draw a lot of current. At the other extreme the
> tubes will draw little or no current. Do you get a reading on the meter
in
> any bias position. If you do it should be set for 60 MA.
>
> If you do not get a reading, do you notice a lot of heat coming from the
> final area with the bias control at one extreme or the other? If the bias
> was working but the meter was not, the tubes would get very hot while in
> transmit with the bias control at one extreme but not the other. If they
do

> get very hot, unkey so you do not damage the tubes.
>
> Now, check again that all tubes filaments are lighted including the 12BY7.
> Check this out in a dark room. Be careful and don't fumble into the high
> voltage!
>
> If you get no idle current, no excess heat that changes with the bias
> control, and all tubes are lighted, next try removing the relays and
> inspecting the contacts. Look for burned contacts. Clean them. Remove only
1
> relay at a time, as they are not the same although they look alike.
>
> Now I may be making a fool of myself suggesting the relays, but in the
> limited time I had this afternoon, and with the very poor diagram I have,
it
> seemed that the power source for the bias goes through Q5 on the RF board
> and comes to Q5 through a relay. I did not have the time to check this
out
> thoroughly at this time, but it might be worth checking the relays. We are
> looking for a contact that is not conducting on transmit. Be careful when
> removing the covers on these relays, they are not available any more.
>
>
> Tell us what you find out and I will try to get a better diagram. I have
> one on hard copy, but it is not here.
>
> BTW, the rig should operate with the CW key unpluged.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, January 18, 2006 7:49 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hi Walt,
> >
> > Following your latest instructions, here are the results:
> >
> > 1. Both plate chokes show 0 ohms when measured as you described.
> >
> > 2. Putting black lead to top of choke and red lead to ground, it shows a
> low
> > resistance to start with, then builds to a high resistance (about 400k).
> >
> > 3 Putting the red lead to the top of the choke and the black lead to

> ground,
> > it shows a resistance of about 400k. (somehow I must of goofed up my
> > original measurement).
> >
> > 4. I hooked up the dummy load, heater switch on, set the SG switch to
off,
> > meter to ALC, carrier fully clockwise. Toggled rec/send switch to send
> and
> > held down the cw key while adjusting the drive control through-out its
> > range. No movement of the meter.
> >
> > 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> > selector switch there is a 250/1000 vdc position. I would be extremely
> > cautious making any high voltage measurements.
> >
> > Thanks again for your help. It would really be neat if we can actually
> > solve this problem!
> >
> > 73
> >
> > Steve K7QHU
> >
>
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>
3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig
> =NStjWgsFtXmQaGrYd1LT5w> radio Craft
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>
&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.s
> ig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
> =5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
> Icom

>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+ho
> &k=Icom+ham+radio&w1=Ham+radio&w2=Craft+ho
>
bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101
> &.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+h
> &k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+h
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=10
> 1&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6573. TS-820S AF/RF Gain Control Replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 00:51:36 UTC
From: wb4ouf
Topic: 6573 Message: 6573

Hi All!
Anyone have any idea where I might be able to get the dual pot, AF/RF Gain Control for my 820S? The part number is R08-3012-15 and it's designated VR4.5 in the manual. I have searched East Coast Transistor and the folks on the West Coast.... both show "discontinued". Also, no luck on the "Web". If anyone knows anything about this part, I could use one. Thank you, es best 73's to all.

Frank.

6574. Re: [TS-520_820_530_830] TS-820S AF/RF Gain Control Replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 09:20:27 UTC
From: Dave and Loraine
Topic: 6573 Message: 6574

Is the original scratchy / damaged / missing?
If scratchy, Deoxit can be used to fix it..
73 Dave F4EYK

6575. TS-830S AF board relay replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 09:28:17 UTC
From: mw1fgq
Topic: 6575 Message: 6575

Hi
I'm trying to restore a junker TS-830 which someone has "worked" on previously, it looks as if the Omron flatpack 4PCO relay on the AF board needs replacing - the cover was missing and I have no IF shift/RIT even after trying to clean it. Is there a current replacement part that I can easily source here in the UK? I've looked through the messages/files but can't find anything relevant.

This old set came to me as a source of parts for my own 830 and had obviously been neglected, I'm thinking of making her into a transverter driver for higher bands - has anyone done a solid state driver mod for this or would that be sacrilege?
Apart from the carrier oscillators being way off I can hear the VFO/VCO working so I'm hopeful that the relay will help solve my Rx problem but I have no frequency display - are there any likely stock faults to look for?
Many thanks, great group
John
MW1FGQ

6576. Re: TS-820S AF/RF Gain Control Replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 11:45:30 UTC
From: wb4ouf
Topic: 6573 Message: 6576

--- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine"
<dave.crooks@t...> wrote:
>
> Is the original scratchy / damaged / missing?
> If scratchy, Deoxit can be used to fix it..
> 73 Dave F4EYK
>
Thanks for the reply Dave. The AF gain is scratchy. I had this rig in storage for about 10 years and have it working pretty good except for the AF control. I have used spray contact cleaner (not Deoxit) and, have cleaned it several times but the problem just won't go away. It will be working just fine and suddenly, the AF starts acting up. A slight turn of the control and, it settles down. I just figured, if I could get the part I could "end this grief"..... HI!
73's Frank, WB4OUF

6577. TS 820S S meter lamps ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 15:08:45 UTC
From: Bob
Topic: 6577 Message: 6577

Anyone know the voltage and ma rating of the 820s s meter lamps.....both of mine are burned out. RS replacement ?
Thanks BOB

6578. Re: TS 820S S meter lamps ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 15:42:17 UTC
From: Bob
Topic: 6577 Message: 6578

--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@y...> wrote:
>
> Anyone know the voltage and ma rating of the 820s s meter
> lamps.....both of mine are burned out. RS replacement ?
> Thanks BOB
>
Found my answer in the database !!!!!

6579. Antenna ideas/Re: Rain Gutter Antenna

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-01-30 22:48:40 UTC
From: William Bottger
Topic: 6579 Message: 6579

thanks to all who responded.

The very comprehensive response came from K4TK, Tim A. Moore.

It should be available in our next club newsletter
<http://www.w4ap.org/html/modules.php?name=zerobeat> .

He is an outstanding member of my local HAM club w4ap.org
<http://www.w4ap.org/html/index.php> .

KI4CYM, Bill

334-262-4601

Packet8 Phone User

334-239-4136

VoIP Rules

[Non-text portions of this message have been removed]

6580. TS-830 w/audio problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 04:19:38 UTC
From: Bill
Topic: 6580 Message: 6580

Well, my 830 arrived and the receive audio is scratchy and occasionally fades out. A little twist of the AF knob and the audio returns, only to fade out or become very scratchy again later. It does maintain proper sound if the AF is turned up to, say, 6 or 7. This problem does not appear at all when using headphones. Volume changes and audio sound perfect. Is this just a dirty pot that can be cleaned? Or is there something more sinister at hand?

Also, does anyone know of what or where to get some touch-up paint for the face plate? I have a few very small knicks.

Thanks,

Bill
WB5DX
Dallas

6581. Re: Another possibly dumb question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 04:22:24 UTC
From: Bill
Topic: 6568 Message: 6581

Well, I took your advice and agreed to buy an AT-230. I should have it next week. That will be just enought time to get my 830 back from surgery (band switch). Thanks - Bill

--- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@a...> wrote:
> >
> > Will the Kenwood AT-250 work with the TS830. I know the tuner is a
> > later vintage, but... Thanks, Bill
> >
>
> If you look at the reviews on eham for the AT-250 there is a ham using this tuner with the
> 830. There is mention of a special cable needed to interface the rig. Which one and how
> to use it I don't know.
>
> What sort of antenna do you plan on using? The 830 itself will tune a lot of antennas.
>
> Some of the fun in owning these rigs is all the adjustments that need to be made to
> operate them. Using a auto tuner takes away some of the fun if you ask me. An AT-200
> or AT-230 will give you some more knobs and switches to play with. The 200 does not
> have the WARC bands. If it was me I'd get a AT-230 or another manual tuner for your rig.
>
> Cheers Mate
>
> Chris VK2ICJ
>

6582. 'Fix' lamp comes on -- and other items

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 04:59:45 UTC
From: Bill Barron
Topic: 6582 Message: 6582

I'm working to get my TS-520SE operational. I've made good progress and can even get the rig tuned up and resonating into a dummy load -- even though the max RF I'm getting is about 55 watts -- probably a function of aged, soft 6146s. [IP and ALC are on spec].

I've got all the accessories -- the VFO-520S, the DG-5, the SP-520, the SM-220 and the tuner and can't wait to get the whole thing running smoothly.

Three questions:

1) I'm missing one plastic toggle arm over the wide/nar switch. Does anyone know where I can get a replacement?

2) My VFO-520S doesn't seem to want to work with the 520SE. Neither does the spare VFO-520 I have. Is this just a bad interconnect cable problem?

3) The 'fix' lamp illuminates on some [not all] occaisions when the function switch is placed in VFO mode. The lamp does not light ever in the VFO.R position. Is this just a quirk or bad / leaky switch, or is it a sign of more serious issues? I can't see that it effects the rig at all. The proper VFO jumpered plug is inserted in the rig. No fixed channels are installed.

73,
Bill W1WAB

6583. Re: [TS-520_820_530_830] TS-830 w/audio problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 10:34:26 UTC
From: Walt Breining
Topic: 6580 Message: 6583

I would check the contacts on the headphone plug and speaker plug and any pugs associated with cables going to these plugs. The speaker audio goes through the headphone plug and is disabled by contacts in the headphone plug. I would use de-Oxit to clean these contacts. Spray it on and repeatedly plug and unplug a plug a few times working the de Oxit into the contacts.

Also clean the AF pot with De Oxit. Actually problems caused by dirty contacts often are affected by changes in gain.

If that doesn't do it, check for bad solder connections around the audio chip and associated components. I am betting on the contacts though.

Vy 73, Walt N9WB

----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, February 01, 2006 11:19 PM
Subject: [TS-520_820_530_830] TS-830 w/audio problem

> Well, my 830 arrived and the receive audio is scratchy and occasionally
> fades out. A little twist of the AF knob and the audio returns, only
> to fade out or become very scratchy again later. It does maintain
> proper sound if the AF is turned up to, say, 6 or 7. This problem does
> not appear at all when using headphones. Volume changes and audio
> sound perfect. Is this just a dirty pot that can be cleaned? Or is
> there something more sinister at hand?
>
> Also, does anyone know of what or where to get some touch-up paint for
> the face plate? I have a few very small knicks.
>
> Thanks,
>
> Bill
> WB5DX
> Dallas
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>
>

6584. Re: [TS-520_820_530_830] TS-830 w/audio problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 11:42:13 UTC
From: w3iz
Topic: 6580 Message: 6584

Waly is right on the money here. De-Oxit is a friend to those that own older equipment.

A thorough cleaning of all controls and contacts will breath new life into these beasts that have been religated to the basement, attic or garage for a while.

You are dealing with componenets taht are over 30 years old and have been in many unknown environments. In some cases they have either had little or no maintenance and in others they have been allowed to just sit and tarnish.

When ever trouble shooting anything, go for the simplest solution first.
73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Walt Breining" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 02, 2006 5:34 AM
Subject: Re: [TS-520_820_530_830] TS-830 w/audio problem

> I would use de-Oxit to clean these contacts...

>...Also clean the AF pot with De Oxit. Actually problems caused by dirty
>contacts often are affected by changes in gain.

> Vy 73, Walt N9WB

6585. De-Oxit Source & Best Lubricant??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 12:58:07 UTC
From: n3hkn
Topic: 6585 Message: 6585

What is a good source(cheap) for De-Oxit?

A while back there was a wide ranging discussion on lubricants for older switches. Was any consensus reached?? While I do not have any switch issues with my 520S I want to keep it that way. The most feared failure, for me, is a multi-position rotary switch.

Dick N3HKN

6586. Re: [TS-520_820_530_830] De-Oxit Source & Best Lubricant??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 13:07:19 UTC
From: Walt Breining
Topic: 6585 Message: 6586

I think it is made by Craig and I think Radio Shack still carries it. Tell them that you need it for a cell phone.

Walt N9WB

----- Original Message -----
From: "n3hkn" <n3hkn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 02, 2006 7:58 AM
Subject: [TS-520_820_530_830] De-Oxit Source & Best Lubricant??

> What is a good source(cheap) for De-Oxit?
>
> A while back there was a wide ranging discussion on lubricants for
> older switches. Was any consensus reached?? While I do not have any
> switch issues with my 520S I want to keep it that way. The most feared
> failure, for me, is a multi-position rotary switch.
>
> Dick N3HKN
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6587. Re: TS-830 w/audio problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 13:10:07 UTC
From: Bill
Topic: 6580 Message: 6587

Thanks for the replies! I will get some DeOxit and give all the
suggestions a try. Any others are also welcome! Thanks again, 73,
Bill, WB5DX.

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>
> Waly is right on the money here. De-Oxit is a friend to those
that own
> older equipment.
>
> A thorough cleaning of all controls and contacts will breath new
life into
> these beasts that have been religated to the basement, attic or
garage for a
> while.
>
> You are dealing with componenets taht are over 30 years old and
have been in
> many unknown environments. In some cases they have either had
little or no
> maintenance and in others they have been allowed to just sit and
tarnish.
>
> When ever trouble shooting anything, go for the simplest solution
first.
> 73,
> Norm, W3IZ
> www.w3iz.com
> ----- Original Message -----
> From: "Walt Breining" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, February 02, 2006 5:34 AM
> Subject: Re: [TS-520_820_530_830] TS-830 w/audio problem
>
>
> > I would use de-Oxit to clean these contacts...
>
> >...Also clean the AF pot with De Oxit. Actually problems caused
by dirty
> >contacts often are affected by changes in gain.
>
> > Vy 73, Walt N9WB
>

6588. Caig Lubricants and Cleaners et al

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 14:59:03 UTC
From: stephencrain@sbcglobal.net
Topic: 6588 Message: 6588

Here is a good source of Caig Lubricants and cleaners. Get on the mailing list and the flyers have some pretty decent markdowns on all sorts of toys and "gotta haves".
MCM Electronics
Order: 800-543-4330
WWW.MCMINONE.COM
Stephen, KG0K

6589. Re: [TS-520_820_530_830] De-Oxit Source & Best Lubricant??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 16:29:56 UTC
From: Bill Scurlock
Topic: 6585 Message: 6589

Hi Dick. Fry's Electronics sells De-Ox-it in a fairly large spray can in the Dallas area for about $11 as I recall.

73, Bill, K5GCW
----- Original Message -----
From: n3hkn
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, February 02, 2006 6:58 AM
Subject: [TS-520_820_530_830] De-Oxit Source & Best Lubricant??

What is a good source(cheap) for De-Oxit?

A while back there was a wide ranging discussion on lubricants for older switches. Was any consensus reached?? While I do not have any switch issues with my 520S I want to keep it that way. The most feared failure, for me, is a multi-position rotary switch.

Dick N3HKN

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6590. Re: Another possibly dumb question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 18:40:08 UTC
From: vk2icj
Topic: 6568 Message: 6590

I think you will really enjoy using that tuner!! Were you able to get a manual with it Bill?
I'm sure you can download one on the net here if you din't.

73's
n gud dx

Chris VK2ICJ

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@...> wrote:
>
> Well, I took your advice and agreed to buy an AT-230. I should have
> it next week. That will be just enought time to get my 830 back from
> surgery (band switch). Thanks - Bill
>

6591. The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-02 23:57:30 UTC
From: Bill
Topic: 6591 Message: 6591

OK, as I was researching the 830 prior to my purchase, many listings (Ebay and elsewhere) said theirs was a "Goldline". A couple of listings said that particular "line" came with all the filters. As I understand it; there is really no such thing. So, where did the name come from? Thanks - Bill

6592. Re: [TS-520_820_530_830] The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 00:24:19 UTC
From: w3iz
Topic: 6591 Message: 6592

Urban legend
73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 02, 2006 6:57 PM
Subject: [TS-520_820_530_830] The "Goldline" Name

> OK, as I was researching the 830 prior to my purchase, many listings
> (Ebay and elsewhere) said theirs was a "Goldline". A couple of
> listings said that particular "line" came with all the filters. As I
> understand it; there is really no such thing. So, where did the name
> come from? Thanks - Bill
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

6593. RE: [TS-520_820_530_830] The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 00:34:54 UTC
From: Calvin Rousseau
Topic: 6591 Message: 6593

My understanding of this □situation□ is that towards the end of 830 production, Kenwood ran a sales promotion where they offered the 830 with all filter slots filled, so that there were no additional □internal□ accessories to buy. Whether or not they actually referred to these □promotional□ 830s as □gold□ or □gold-line□, or whether these monikers are the product of rumor & Ebay sales hype I don□t know. I do know that both 830s I□ve owned had gold colored labels under the main tuning dial. Both of them came to me through Ebay without optional filters, and every other 830 I□ve ever seen also had the gold colored label. 73□s, Calvin WOØL.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w3iz
Sent: Thursday, February 02, 2006 6:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] The "Goldline" Name

Urban legend
73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Bill" <wb5dx@arrl.net>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 02, 2006 6:57 PM
Subject: [TS-520_820_530_830] The "Goldline" Name

> OK, as I was researching the 830 prior to my purchase, many listings
> (Ebay and elsewhere) said theirs was a "Goldline". A couple of
> listings said that particular "line" came with all the filters. As I
> understand it; there is really no such thing. So, where did the name
> come from? Thanks - Bill
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio

Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby

Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio

Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6594. Reflector activity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 03:12:15 UTC
From: joe sloss
Topic: 6594 Message: 6594

Have received no posts today. Wanted to see if problem is at my end or what. Joe k7mks

[Non-text portions of this message have been removed]

6595. Re: [TS-520_820_530_830] The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 04:12:42 UTC
From: Walt Breining
Topic: 6591 Message: 6595

The Gold TS 830 uses special beta components that will outlast standard 830s and incorporates a electron accelerator in a the screen grid circuit that has several advantages. It was coveted by DX'ers because their signals would arrive at the DX station slightly ahead of the others giving a decided advantage in pile ups. Unfortunately, the ARRL threatened to pull all of Kenwood's advertising from QSTs if they did not cease manufacture immediately. They considered this cheating in the contests and DX operations. Kenwood complied and the Gold Kenwood was short lived. These rigs are rare because DX'ers who have them seldom sell them or let it be known that they own them for fear of government reprisal. when they do end up on e-bay it is rumored that the government runs the biding up and snatches them up never to be seen again.

Bob Heil later coined the name Gold Line for one of his microphone lines and it is rumored that he incorporated a speech accelerator diaphragm in some of his Gold Line elements, but Bob is very hush hush about this. I think that there may be some truth to this because hush hush is not one of Bob's typical characteristics.

Vy 73, Walt N9WB

----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 02, 2006 6:57 PM
Subject: [TS-520_820_530_830] The "Goldline" Name

> OK, as I was researching the 830 prior to my purchase, many listings
> (Ebay and elsewhere) said theirs was a "Goldline". A couple of
> listings said that particular "line" came with all the filters. As I
> understand it; there is really no such thing. So, where did the name
> come from? Thanks - Bill
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6596. Re: [TS-520_820_530_830] The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 05:36:10 UTC
From: Kevin der Kinderen
Topic: 6591 Message: 6596

Really?

;-) K4VD

On 2/3/06, Walt Breining <n9wb@...> wrote:
> The Gold TS 830 uses special beta components that will outlast standard 830s
> and incorporates a electron accelerator in a the screen grid circuit that
> has several advantages. It was coveted by DX'ers because their signals
> would arrive at the DX station slightly ahead of the others giving a decided
> advantage in pile ups. Unfortunately, the ARRL threatened to pull all of
> Kenwood's advertising from QSTs if they did not cease manufacture
> immediately. They considered this cheating in the contests and DX
> operations. Kenwood complied and the Gold Kenwood was short lived. These
> rigs are rare because DX'ers who have them seldom sell them or let it be
> known that they own them for fear of government reprisal. when they do end
> up on e-bay it is rumored that the government runs the biding up and
> snatches them up never to be seen again.
>
> Bob Heil later coined the name Gold Line for one of his microphone lines and
> it is rumored that he incorporated a speech accelerator diaphragm in some of
> his Gold Line elements, but Bob is very hush hush about this. I think that
> there may be some truth to this because hush hush is not one of Bob's
> typical characteristics.
>
> Vy 73, Walt N9WB

6597. Re: [TS-520_820_530_830] The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 05:56:27 UTC
From: Bill Scurlock
Topic: 6591 Message: 6597

Walt, your explanation "made my day". I can go to bed with a grin on my face tonight. Thanks.

73, Bill, K5GCW
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, February 02, 2006 10:12 PM
Subject: Re: [TS-520_820_530_830] The "Goldline" Name

The Gold TS 830 uses special beta components that will outlast standard 830s and incorporates a electron accelerator in a the screen grid circuit that has several advantages. It was coveted by DX'ers because their signals would arrive at the DX station slightly ahead of the others giving a decided advantage in pile ups. Unfortunately, the ARRL threatened to pull all of Kenwood's advertising from QSTs if they did not cease manufacture immediately. They considered this cheating in the contests and DX operations. Kenwood complied and the Gold Kenwood was short lived. These rigs are rare because DX'ers who have them seldom sell them or let it be known that they own them for fear of government reprisal. when they do end up on e-bay it is rumored that the government runs the biding up and snatches them up never to be seen again.

Bob Heil later coined the name Gold Line for one of his microphone lines and it is rumored that he incorporated a speech accelerator diaphragm in some of his Gold Line elements, but Bob is very hush hush about this. I think that there may be some truth to this because hush hush is not one of Bob's typical characteristics.

Vy 73, Walt N9WB

----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 02, 2006 6:57 PM
Subject: [TS-520_820_530_830] The "Goldline" Name

> OK, as I was researching the 830 prior to my purchase, many listings
> (Ebay and elsewhere) said theirs was a "Goldline". A couple of
> listings said that particular "line" came with all the filters. As I
> understand it; there is really no such thing. So, where did the name
> come from? Thanks - Bill
>
>
>
>

>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6598. 830S No RX.....Help

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 06:36:10 UTC
From: Bill Marvin
Topic: 6598 Message: 6598

Hi Group,

I was touching up a few pots & switches with a light amount of DeOxit Pro Gold, all was working. Then when I plugged it back in No Rx, no Rx display. However when I flip the Send/Rx switch to Send the display work per VFO, in Rx Blank....even the Rx Rit light doesn't glow.

I treated the Send/RX switch, the Rit switch & Pot, AF & RF pots.

It does appear to Tx fine.......... Any hints

73 Bill KB9IV

6599. Re: [TS-520_820_530_830] The "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 13:24:47 UTC
From: Dave and Loraine
Topic: 6591 Message: 6599

Good one Walt!

The Goldline was actually part of the 'Olympic series'; Gold, Silver and Bronze.
I couldn't understand the manual. It was all Greek to me.
Instead of dipping, it said to break the plate.

Cheers
Dave F4EYK

6600. Re: Another possibly dumb question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 14:15:17 UTC
From: Bill
Topic: 6568 Message: 6600

I have a PDF copy of the manual (from mods.dk). I should have it late next week. That will be just enough time to get the 830 back from the doctor (band switch coupler). Thanks - Bill

--- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@...> wrote:
>
> I think you will really enjoy using that tuner!! Were you able to get a manual with it Bill?
> I'm sure you can download one on the net here if you din't.
>
> 73's
> n gud dx
>
> Chris VK2ICJ
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@> wrote:
> >
> > Well, I took your advice and agreed to buy an AT-230. I should have
> > it next week. That will be just enought time to get my 830 back from
> > surgery (band switch). Thanks - Bill
> >
>

6601. 830s Face plate touch-up paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 14:17:38 UTC
From: Bill
Topic: 6601 Message: 6601

Does anyone happen to know where to get a good matching touch-up paint
for the face plate of the 830. I have a couple of fairly tiny knicks
which most people won't notice. But, I see them and they bug me!

Thanks - Bill

6602. Re: [TS-520_820_530_830] 830s Face plate touch-up paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 14:59:54 UTC
From: Walt Breining
Topic: 6601 Message: 6602

I got this tip from Carol on the Fox Tango site. If they don't have your exact color, Go to Wall Mart or a craft or hobby shop and get Testors craft and model paint in little bottles. Get one the color lighter and one the color darker than what you need. Poor some of the lighter color into a small container. mix the darker in a bit at a time until it becomes your color.

Vy 73, Walt N9WB
----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, February 03, 2006 9:17 AM
Subject: [TS-520_820_530_830] 830s Face plate touch-up paint

> Does anyone happen to know where to get a good matching touch-up paint
> for the face plate of the 830. I have a couple of fairly tiny knicks
> which most people won't notice. But, I see them and they bug me!
>
> Thanks - Bill
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6603. Question about TS-830S vintage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 18:33:43 UTC
From: Dylan Keon
Topic: 6603 Message: 6603

I've seen one 830S with a fixed power cord and another with a plug-in interface for the power cord and an adjacent voltage select switch. I'm curious - which is the earlier design, and which is later? I think the unit with the fixed power cord had a lower serial number, but can't remember for sure.

Thanks,
Dylan Keon KA8PFC/7

6604. Re: [TS-520_820_530_830] Question about TS-830S vintage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-03 20:45:53 UTC
From: Bill Michne
Topic: 6603 Message: 6604

Dylan:

I bought one of the first 830's around 1982, and it had a power cord. As I recall, at that time that was the only option. Of course, I'm commenting based on my memory, which doesn't work as well as it did in the early 80's...

Bill Michne, WM3X

----- Original Message -----
From: Dylan Keon
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, February 03, 2006 1:33 PM
Subject: [TS-520_820_530_830] Question about TS-830S vintage

I've seen one 830S with a fixed power cord and another with a plug-in
interface for the power cord and an adjacent voltage select switch.
I'm curious - which is the earlier design, and which is later? I
think the unit with the fixed power cord had a lower serial number,
but can't remember for sure.

Thanks,
Dylan Keon KA8PFC/7

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6605. sp-230 vs sp-180

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 02:35:49 UTC
From: Bill
Topic: 6605 Message: 6605

What is the difference between the SP-180 and the SP-230. The cabinet, buttons and grill appear identical. Is the cabinte color the same? Are the filters the same? The 180 seems to sell for less on (you-know-where) and other swap lists. Thanks - Bill

6606. Kenwood TS 520 neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 15:36:31 UTC
From: wayneg
Topic: 6606 Message: 6606

Just received new tubes for my 520 and have to go through the neutralization. I do not have a RF VTVM but think I read somewhere that a separate receiver could be used for peaking? Have always had solid state rigs so this is a very new experience. Any ideas or help would sure be appreciated.
Thank you.

Wayne, NM3B

6607. Re: [TS-520_820_530_830] Kenwood TS 520 neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 15:49:55 UTC
From: amfone@sbcglobal.net
Topic: 6606 Message: 6607

Be careful there is HV present use insulated tool only.. keep one had in your pocket at all times do not have both hands touch the rig......

Tune the rig to 10 meters the highest frequency.... anywhere on 10.....meters
Tune into a dummy load and a watt meter....
make sure the maximum output occurs at the dip on the plate meter...
When that occurs that is proper neutralization..
73 Tim
wb8uhz
----- Original Message -----
From: wayneg
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 04, 2006 10:36 AM
Subject: [TS-520_820_530_830] Kenwood TS 520 neutralization

Just received new tubes for my 520 and have to go through the
neutralization. I do not have a RF VTVM but think I read somewhere
that a separate receiver could be used for peaking? Have always had
solid state rigs so this is a very new experience. Any ideas or help
would sure be appreciated.
Thank you.

Wayne, NM3B

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6608. Re: [TS-520_820_530_830] Kenwood TS 520 neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 16:15:38 UTC
From: Bill Scurlock
Topic: 6606 Message: 6608

Wayne, look in the ARRL Handbook. Building an RF Probe is fairly simple. Then you can use any DC voltmeter (analog meters are easier than digital) with a 10 Megohm input on a low voltage scale to monitor the voltage across a 50 ohm dummy load - put a coax TEE at the output of the radio to access a measurement point. Follow the instructions in the radio manual, and be careful to avoid touching any wiring inside the radio while you do the adjustment.

You can use a separate receiver, but sometimes that will receive signals via more than one path, and can be confusing. But, properly connected and shielded, it does work. If you try this, be careful not to directly connect the external receiver to the transmitter you are neutralizing, and you will probably need some variable attenuation of some kind to obtain a low S-Meter signal to work with.

I'm leaving town. Maybe someone else can give you further assistance. Good luck.

73, Bill, K5GCW
----- Original Message -----
From: wayneg
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 04, 2006 9:36 AM
Subject: [TS-520_820_530_830] Kenwood TS 520 neutralization

Just received new tubes for my 520 and have to go through the
neutralization. I do not have a RF VTVM but think I read somewhere
that a separate receiver could be used for peaking? Have always had
solid state rigs so this is a very new experience. Any ideas or help
would sure be appreciated.
Thank you.

Wayne, NM3B

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6609. Kenwood TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 19:35:56 UTC
From: Don
Topic: 6609 Message: 6609

Hello all I have an Elderly Ham Friend who is looking for some
assistance in Finding

A Kenwood TS-520 Oscillator Board Part # X40-0019-01

Any Help will be Greatly Appreciated

Thanks 73 De Don KA9QJG

6610. VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 20:11:52 UTC
From: py2fwa
Topic: 6610 Message: 6610

Hi, this is my first post on the group...I like very much this hybrids radios of Kenwood and i have the TS-530S and TS820S...With the TS820S i bought the VFO-820 but this VFO don´t have connection cable I will make this cable but I need the connector of 9 pins .Where I can get this item?

73 for all member of this group
Alvaro
PY2FWA

[Non-text portions of this message have been removed]

6611. Re: [TS-520_820_530_830] VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 20:47:38 UTC
From: amfone@sbcglobal.net
Topic: 6610 Message: 6611

The connector can be ordered and the number is listed on the files section of this group..
About $5.00 USA funds one plug..
73 tim
wb8uhz
----- Original Message -----
From: py2fwa
To: TS-520_820_530_830
Sent: Saturday, February 04, 2006 3:11 PM
Subject: [TS-520_820_530_830] VFO Cable for 820

Hi, this is my first post on the group...I like very much this hybrids radios of Kenwood and i have the TS-530S and TS820S...With the TS820S i bought the VFO-820 but this VFO don´t have connection cable .I will make this cable but I need the connector of 9 pins..Where I can get this item?

73 for all member of this group.
Alvaro
PY2FWA

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6612. Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 21:07:19 UTC
From: py2fwa
Topic: 6610 Message: 6612

Thanks Tim
but i need with 9pins ???? for VFO-820...

--- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
>
> The connector can be ordered and the number is listed on the
files section of this group..
> About $5.00 USA funds one plug..
> 73 tim
> wb8uhz
> ----- Original Message -----
> From: py2fwa
> To: TS-520_820_530_830
> Sent: Saturday, February 04, 2006 3:11 PM
> Subject: [TS-520_820_530_830] VFO Cable for 820
>
>
> Hi, this is my first post on the group...I like very much this
hybrids radios of Kenwood and i have the TS-530S and TS820S...With
the TS820S i bought the VFO-820 but this VFO don´t have connection
cable .I will make this cable but I need the connector of 9
pins..Where I can get this item?
>
> 73 for all member of this group.
> Alvaro
> PY2FWA
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>

> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> --

>
>
>
> [Non-text portions of this message have been removed]
>

6614. TS830s - No Power Out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 22:17:06 UTC
From: Bill
Topic: 6614 Message: 6614

Well, I will try and post this one more time. This will be the third attempt.

After tuning up, my 830 no longer shows any power out. I am new to the 830 and I assume I have been tuning correctly. I have check the driver, using the suggestions posted in the files section, and it appears ok. This is a new rig to me, and my prior experience has been strictly with all-solid-state. But, that's why I got this rig in the first place.

Earlier, I was using Deoxit on some of the audio components. I also removed the driver tube for inspection and clean around the socket. All appeared to work properly, tuning up as before, but then no power out. If I leave the heater switch off for a while, it works again or will tune again. The plate current does seem to drift more now (40 to 70ma). Could I have caused this? What do I check now, keeping in mind I have very little hands-on experience at this point.

The rig is going to the doctor next week for a bandswitch coupler, and he could also diagnose this problem. But, I would like to know ahead, possibly fixing it myself or at least learn something. Any suggestions?

Thanks - Bill

6615. Re: TS830s - No Power Out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 22:21:00 UTC
From: Bill
Topic: 6614 Message: 6615

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@...> wrote:
>
> Well, I will try and post this one more time. This will be the
> third attempt.
>
> After tuning up, my 830 no longer shows any power out. I am new
to
> the 830 and I assume I have been tuning correctly. I have check
the
> driver, using the suggestions posted in the files section, and it
> appears ok. This is a new rig to me, and my prior experience has
> been strictly with all-solid-state. But, that's why I got this
rig
> in the first place.
>
> Earlier, I was using Deoxit on some of the audio components. I
also
> removed the driver tube for inspection and clean around the
socket.
> All appeared to work properly, tuning up as before, but then no
> power out. If I leave the heater switch off for a while, it works
> again or will tune again. The plate current does seem to drift
more
> now (40 to 70ma). Could I have caused this? What do I check now,
> keeping in mind I have very little hands-on experience at this
> point.
>
> The rig is going to the doctor next week for a bandswitch coupler,
> and he could also diagnose this problem. But, I would like to know
> ahead, possibly fixing it myself or at least learn something. Any
> suggestions?
>
> Thanks - Bill
>
One additional bit of info; I have had the radio about 5 days and
had a few QSOs. No signs of a problem. Also, no smell, arcing or
associated noise. I do not know how old the tubes are or how long
it was in storage (but it sure looks good!). What do I do next?

Bill

6616. Re: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 22:44:52 UTC
From: amfone@sbcglobal.net
Topic: 6610 Message: 6616

It has nine pins and the part number is listed on the site..
73 tim
----- Original Message -----
From: py2fwa
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 04, 2006 4:07 PM
Subject: [TS-520_820_530_830] Re: VFO Cable for 820

Thanks Tim
but i need with 9pins ???? for VFO-820...

--- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
>
> The connector can be ordered and the number is listed on the
files section of this group..
> About $5.00 USA funds one plug..
> 73 tim
> wb8uhz
> ----- Original Message -----
> From: py2fwa
> To: TS-520_820_530_830
> Sent: Saturday, February 04, 2006 3:11 PM
> Subject: [TS-520_820_530_830] VFO Cable for 820
>
>
> Hi, this is my first post on the group...I like very much this
hybrids radios of Kenwood and i have the TS-530S and TS820S...With
the TS820S i bought the VFO-820 but this VFO don´t have connection
cable .I will make this cable but I need the connector of 9
pins..Where I can get this item?
>
> 73 for all member of this group.
> Alvaro
> PY2FWA
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> --

```
-----------
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ------------------------------------------------------------------
-----------
>
>
>
> [Non-text portions of this message have been removed]
>
```

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6617. Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 00:00:07 UTC
From: py2fwa
Topic: 6610 Message: 6617

Ok Tim, i believe that you don´t undertand me...i need
the "connector" and not the "part number"....I need to know ""WHERE
TO BUY"" this connector...in Files on this site dont have some
mention about WHERE TO BUY...sorry, but my Inglish is very bad,
perhaps for this reason we are confused.

73´s
Alvaro

--- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
>
> It has nine pins and the part number is listed on the site..
> 73 tim
> ----- Original Message -----
> From: py2fwa
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, February 04, 2006 4:07 PM
> Subject: [TS-520_820_530_830] Re: VFO Cable for 820
>
>
> Thanks Tim
> but i need with 9pins ???? for VFO-820...
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> >
> > The connector can be ordered and the number is listed on the
> files section of this group..
> > About $5.00 USA funds one plug..
> > 73 tim
> > wb8uhz
> > ----- Original Message -----
> > From: py2fwa
> > To: TS-520_820_530_830
> > Sent: Saturday, February 04, 2006 3:11 PM
> > Subject: [TS-520_820_530_830] VFO Cable for 820
> >
> >
> > Hi, this is my first post on the group...I like very much
this
> hybrids radios of Kenwood and i have the TS-530S and
TS820S...With
> the TS820S i bought the VFO-820 but this VFO don´t have
connection

> cable .I will make this cable but I need the connector of 9
> pins..Where I can get this item?
> >
> > 73 for all member of this group.
> > Alvaro
> > PY2FWA
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > ---

> ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms
> of Service.
> >
> >
> > ---

> ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>

> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> --

>
>
>
> [Non-text portions of this message have been removed]
>

6618. 830S in Standby??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 00:33:27 UTC
From: Bill Marvin
Topic: 6618 Message: 6618

Hi Group,

For some reason my near mint 830S seems to be in a No Rx Standby
mode. The display works by switching the Send switch but on Rec
no receive and the display is blank.

I used DeOxit lightly on all harness conectors, Send/Rx switch and
on the large & small bottom relays contacts,carefully.

When putting the 830 in Send I can see the large Bottom relay switching
but no activity on the small relay.

Any suggestions? It was working fine.

Best 73

Bill KB9IV

6619. Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 01:40:37 UTC
From: ab8sg
Topic: 6610 Message: 6619

kenwoodparts.com

search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520

73
AB8SG

--- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@...> wrote:
>
> Ok Tim, i believe that you don´t undertand me...i need
> the "connector" and not the "part number"....I need to know ""WHERE
> TO BUY"" this connector...in Files on this site dont have some
> mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> perhaps for this reason we are confused.
>
> 73´s
> Alvaro
>
> --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> >
> > It has nine pins and the part number is listed on the site..
> > 73 tim
> > ----- Original Message -----
> > From: py2fwa
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, February 04, 2006 4:07 PM
> > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> >
> >
> > Thanks Tim
> > but i need with 9pins ???? for VFO-820...
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > >
> > > The connector can be ordered and the number is listed on the
> > files section of this group..
> > > About $5.00 USA funds one plug..
> > > 73 tim
> > > wb8uhz
> > > ----- Original Message -----
> > > From: py2fwa
> > > To: TS-520_820_530_830
> > > Sent: Saturday, February 04, 2006 3:11 PM
> > > Subject: [TS-520_820_530_830] VFO Cable for 820

> > >
> > >
> > > Hi, this is my first post on the group...I like very much
> this
> > hybrids radios of Kenwood and i have the TS-530S and
> TS820S...With
> > the TS820S i bought the VFO-820 but this VFO don´t have
> connection
> > cable .I will make this cable but I need the connector of 9
> > pins..Where I can get this item?
> > >
> > > 73 for all member of this group.
> > > Alvaro
> > > PY2FWA
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> > > ---
> ----
> > ------------
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> Terms
> > of Service.
> > >
> > >
> > > ---
> ----
> > ------------
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >

> >
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > ---
> -----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > ---
> -----------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

6620. Re: [TS-520_820_530_830] 830S in Standby??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 01:54:51 UTC
From: Ken Winterling
Topic: 6618 Message: 6620

Bill,

If you don't have a service manual I suggest you buy and/or download one. It will make troubleshooting much easier. With the manual in front of you the folks on the reflector can advise what and where to check and you can follow on the schematic. Also, you will see what SHOULD be happening that isn't. For example, you will see what should be causing that small relay to operate and trace backward to find why it doesn't.

Good luck,

Ken, WA2LBI

On 2/4/06, Bill Marvin <wmarvin@...> wrote:
> Hi Group,
>
> For some reason my near mint 830S seems to be in a No Rx Standby
> mode. The display works by switching the Send switch but on Rec
> no receive and the display is blank.
>
> I used DeOxit lightly on all harness conectors, Send/Rx switch and
> on the large & small bottom relays contacts,carefully.
>
> When putting the 830 in Send I can see the large Bottom relay switching
> but no activity on the small relay.
>
> Any suggestions? It was working fine.
>
> Best 73
>
> Bill KB9IV
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6621. Re: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 03:33:38 UTC
From: amfone@sbcglobal.net
Topic: 6610 Message: 6621

You can't buy the connector
----- Original Message -----
From: py2fwa
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 04, 2006 7:00 PM
Subject: [TS-520_820_530_830] Re: VFO Cable for 820

Ok Tim, i believe that you don´t undertand me...i need
the "connector" and not the "part number"....I need to know ""WHERE
TO BUY"" this connector...in Files on this site dont have some
mention about WHERE TO BUY...sorry, but my Inglish is very bad,
perhaps for this reason we are confused.

73´s
Alvaro

--- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
>
> It has nine pins and the part number is listed on the site..
> 73 tim
> ----- Original Message -----
> From: py2fwa
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, February 04, 2006 4:07 PM
> Subject: [TS-520_820_530_830] Re: VFO Cable for 820
>
>
> Thanks Tim
> but i need with 9pins ???? for VFO-820...
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> >
> > The connector can be ordered and the number is listed on the
> files section of this group..
> > About $5.00 USA funds one plug..
> > 73 tim
> > wb8uhz
> > ----- Original Message -----
> > From: py2fwa
> > To: TS-520_820_530_830
> > Sent: Saturday, February 04, 2006 3:11 PM
> > Subject: [TS-520_820_530_830] VFO Cable for 820
> >
> >

> > Hi, this is my first post on the group...I like very much
this
> hybrids radios of Kenwood and i have the TS-530S and
TS820S...With
> the TS820S i bought the VFO-820 but this VFO don´t have
connection
> cable .I will make this cable but I need the connector of 9
> pins..Where I can get this item?
> >
> > 73 for all member of this group.
> > Alvaro
> > PY2FWA
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > ---

> ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms
> of Service.
> >
> >
> > ---

> ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> Icom ham radio Yaesu ham radio
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ---

>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6622. Re: [TS-520_820_530_830] Question about TS-830S vintage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 08:06:58 UTC
From: Rick May
Topic: 6603 Message: 6622

Hello,

The 830S with the fixed power cord through a grommet is the U.S. model. The 12 pin plug in version with the voltage switch was sold in either Europe or Asia depending on what voltage it selects between (220/240 Europe or 120/240 Asia although Japan uses 100 volt mains) Some models with the plug/switch had provision for 13.8vdc operation. I included a photo of the power connection of my 830S which has this option. There is no correlation between the serial numbers of the various versions.

Rick KC0HH
Lamar, Colorado

Dylan Keon <dbkeon@...> wrote: I've seen one 830S with a fixed power cord and another with a plug-in
interface for the power cord and an adjacent voltage select switch.
I'm curious - which is the earlier design, and which is later? I
think the unit with the fixed power cord had a lower serial number,
but can't remember for sure.

Thanks,
Dylan Keon KA8PFC/7

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply Icom ham radio Yaesu ham radio

---
YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Brings words and photos together (easily) with
PhotoMail - it's free and works with Yahoo! Mail.

[Non-text portions of this message have been removed]

6623. TS-830 no pwr out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 21:39:39 UTC
From: Bill
Topic: 6623 Message: 6623

Hopefully this post is not a dup. I posted it earlier today and it did not show up.

My recently arrived 830 now does not show any power out after tune up. I believe I have been following the proper tune-up procedures (I am new to hybrids, having only used all-solid state prior) and it appears to tune up initially. Then either immediately after tuning or after one or two transmissions, -no pwr at all. I followed the instructions (posted in the files) to check the driver and it appears ok. I guess next would be the 6146Bs. I am very limited on test equipment and with experience regarding this rig, but are there any other suggestions at this point. I have not witnessed any arcing, smoke or associated smell. I had made several contacts in previous days with no apparent problem.

If I turn the heater off for a while it will tune again, and again still later the power-out fails. Another change in characteristic is the plate current. Before, it was always at 50 to 60ma. Now it is fluctuating between 40 and 70ma.

Earlier, I was poking around inside the 830 today, cleaning some of the contacts with Deoxit (see my earlier post regarding the AF audio problem) and that appears to have been corrected. I also pulled out the driver tube to check its socket and clean around the base (the rig was off, of course). Could I have caused this?

I do not know the age of the tubes or how long this rig was stored, as it has just arrived a few days ago. It will be going to the rig doctor for the bandswitch coupler as it has a fracture but has not broken yet. And he can always diagnose the remaining problem. But, I would like to know ahead, possibly fixing it myself. Or at least learn something in the process.

Any suggestions? Thanks and 73, Bill

6624. Re: Question about TS-830S vintage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 09:28:22 UTC
From: Dylan Keon
Topic: 6603 Message: 6624

Thanks Rick. That's exactly what I needed to know.

Dylan KA8PFC/7

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hello,
>
> The 830S with the fixed power cord through a grommet is the
U.S. model. The 12 pin plug in version with the voltage switch was
sold in either Europe or Asia depending on what voltage it selects
between (220/240 Europe or 120/240 Asia although Japan uses 100 volt
mains) Some models with the plug/switch had provision for 13.8vdc
operation. I included a photo of the power connection of my 830S
which has this option. There is no correlation between the serial
numbers of the various versions.
>
> Rick KC0HH
> Lamar, Colorado
>
>
>
> Dylan Keon <dbkeon@...> wrote: I've seen one 830S with a
fixed power cord and another with a plug-in
> interface for the power cord and an adjacent voltage select switch.
> I'm curious - which is the earlier design, and which is later? I
> think the unit with the fixed power cord had a lower serial number,
> but can't remember for sure.

6625. Re: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-04 22:20:36 UTC
From: Kelly Maiden
Topic: 6610 Message: 6625

You need to order two plugs and then make up a cable. I used cat 5
shielded cable. Wiring is straight through.
73
Kelly
ab8sg

py2fwa wrote:

> Thanks Tim
> but i need with 9pins ???? for VFO-820...
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
> >
> > The connector can be ordered and the number is listed on the
> files section of this group..
> > About $5.00 USA funds one plug..
> > 73 tim
> > wb8uhz
> > ----- Original Message -----
> > From: py2fwa
> > To: TS-520_820_530_830
> > Sent: Saturday, February 04, 2006 3:11 PM
> > Subject: [TS-520_820_530_830] VFO Cable for 820
> >
> >
> > Hi, this is my first post on the group...I like very much this
> hybrids radios of Kenwood and i have the TS-530S and TS820S...With
> the TS820S i bought the VFO-820 but this VFO don´t have connection
> cable .I will make this cable but I need the connector of 9
> pins..Where I can get this item?
> >
> > 73 for all member of this group.
> > Alvaro
> > PY2FWA
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >

> >
> > --
> ------------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > --
> ------------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+
craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&
w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL
9A5AR8aLNA>
>
> Icom ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby
+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT
2w>
> Yaesu ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobb
y+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qy
D8w>
>
>
>

> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

[Non-text portions of this message have been removed]

6626. RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 11:16:46 UTC
From: PY2FWA
Topic: 6610 Message: 6626

Kelly...many tanks for your repply....and suggestion.

73´s

Alvaro
Py2fwa

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Kelly Maiden
Enviada em: sábado, 4 de fevereiro de 2006 20:21
Para: TS-520_820_530_830@yahoogroups.com
Assunto: Re: [TS-520_820_530_830] Re: VFO Cable for 820

You need to order two plugs and then make up a cable. I used cat 5
shielded cable. Wiring is straight through.
73
Kelly
ab8sg

py2fwa wrote:

> Thanks Tim
> but i need with 9pins ???? for VFO-820...
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
> >
> > The connector can be ordered and the number is listed on the
> files section of this group..
> > About $5.00 USA funds one plug..
> > 73 tim
> > wb8uhz
> > ----- Original Message -----
> > From: py2fwa
> > To: TS-520_820_530_830
> > Sent: Saturday, February 04, 2006 3:11 PM
> > Subject: [TS-520_820_530_830] VFO Cable for 820
> >
> >
> > Hi, this is my first post on the group...I like very much this
> hybrids radios of Kenwood and i have the TS-530S and TS820S...With
> the TS820S i bought the VFO-820 but this VFO don´t have connection
> cable .I will make this cable but I need the connector of 9
> pins..Where I can get this item?

> >
> > 73 for all member of this group.
> > Alvaro
> > PY2FWA
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > ---
> ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > ---
> ---
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=
101&.sig=NStjWgsFtXmQaGrYd1LT5w>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Ic
om+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms

<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=
Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>

> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL
9A5AR8aLNA>
>
> Icom ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>
&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&
w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT
2w>
> Yaesu ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>
&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qy
D8w>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>

>
>

>

[Non-text portions of this message have been removed]

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=
101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6627. RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 11:19:43 UTC
From: PY2FWA
Topic: 6610 Message: 6627

HI.....ab8sg....now i find this item...many many thanks for your support, you are a ☐true ham☐.....great 73 for you, in Brasil we are always qrv my friend.

Alvaro
Py2fwa

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de ab8sg
Enviada em: sábado, 4 de fevereiro de 2006 23:41
Para: TS-520_820_530_830@yahoogroups.com
Assunto: [TS-520_820_530_830] Re: VFO Cable for 820

kenwoodparts.com

search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520

73
AB8SG

--- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@...> wrote:
>
> Ok Tim, i believe that you don´t undertand me...i need
> the "connector" and not the "part number"....I need to know ""WHERE
> TO BUY"" this connector...in Files on this site dont have some
> mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> perhaps for this reason we are confused.
>
> 73´s
> Alvaro
>
> --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> >
> > It has nine pins and the part number is listed on the site..
> > 73 tim
> > ----- Original Message -----
> > From: py2fwa
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, February 04, 2006 4:07 PM
> > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> >
> >
> > Thanks Tim
> > but i need with 9pins ???? for VFO-820...
> >

> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > >
> > > The connector can be ordered and the number is listed on the
> > files section of this group..
> > > About $5.00 USA funds one plug..
> > > 73 tim
> > > wb8uhz
> > > ----- Original Message -----
> > > From: py2fwa
> > > To: TS-520_820_530_830
> > > Sent: Saturday, February 04, 2006 3:11 PM
> > > Subject: [TS-520_820_530_830] VFO Cable for 820
> > >
> > >
> > > Hi, this is my first post on the group...I like very much
> this
> > hybrids radios of Kenwood and i have the TS-530S and
> TS820S...With
> > the TS820S i bought the VFO-820 but this VFO don´t have
> connection
> > cable .I will make this cable but I need the connector of 9
> > pins..Where I can get this item?
> > >
> > > 73 for all member of this group.
> > > Alvaro
> > > PY2FWA
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> > > ---
> ----
> > ------------
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!

> Terms
> > of Service.
> > >
> > >
> > > --
> ----
> > -----------
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > Icom ham radio Yaesu ham radio
> >
> >
> > --
> -----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > --
> -----------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=
101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
Craft

<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6628. Re: RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 11:24:44 UTC
From: Kelly Maiden
Topic: 6610 Message: 6628

Your welcome, and good luck on making your cable. I found that my VFO
820 worked better than the onboard VFO. Less noisy, better audio.
I think because the inboard tuner needs cleaning.

PY2FWA wrote:

> HI.....ab8sg....now i find this item...many many thanks for your
> support, you are a "true ham".....great 73 for you, in Brasil we are
> always qrv my friend.
>
> Alvaro
> Py2fwa
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de ab8sg
> Enviada em: sábado, 4 de fevereiro de 2006 23:41
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: [TS-520_820_530_830] Re: VFO Cable for 820
>
> kenwoodparts.com
>
> search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520
>
> 73
> AB8SG
>
> --- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@...> wrote:
> >
> > Ok Tim, i believe that you don´t undertand me...i need
> > the "connector" and not the "part number"....I need to know ""WHERE
> > TO BUY"" this connector...in Files on this site dont have some
> > mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> > perhaps for this reason we are confused.
> >
> > 73´s
> > Alvaro
> >
> > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > >
> > > It has nine pins and the part number is listed on the site..
> > > 73 tim
> > > ----- Original Message -----
> > > From: py2fwa

> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, February 04, 2006 4:07 PM
> > > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> > >
> > >
> > > Thanks Tim
> > > but i need with 9pins ???? for VFO-820...
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > >
> > > > The connector can be ordered and the number is listed on the
> > > files section of this group..
> > > > About $5.00 USA funds one plug..
> > > > 73 tim
> > > > wb8uhz
> > > > ----- Original Message -----
> > > > From: py2fwa
> > > > To: TS-520_820_530_830
> > > > Sent: Saturday, February 04, 2006 3:11 PM
> > > > Subject: [TS-520_820_530_830] VFO Cable for 820
> > > >
> > > >
> > > > Hi, this is my first post on the group...I like very much
> > this
> > > > hybrids radios of Kenwood and i have the TS-530S and
> > TS820S...With
> > > > the TS820S i bought the VFO-820 but this VFO don´t have
> > connection
> > > > cable .I will make this cable but I need the connector of 9
> > > > pins..Where I can get this item?
> > > > >
> > > > > 73 for all member of this group.
> > > > > Alvaro
> > > > > PY2FWA
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > > >
> > > > >
> > > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> > supply
> > > > > Icom ham radio Yaesu ham radio
> > > > >
> > > > >
> > > > > --
> > ----
> > > ------------

> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > >
> > > > b.. To unsubscribe from this group, send an email to:
> > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> > Terms
> > > of Service.
> > > >
> > > >
> > > > ---
> > ----
> > > -----------
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> > > ---
> > -----------
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> > of Service.
> > >
> > >
> > > ---
> > -----------
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >

> >
>
>
>
>
>
>
> SPONSORED LINKS
>
> Ham
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob>
> by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=
> 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> Craft
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h>
> obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
> s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> Hobby
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio>
> &w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
> +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
>
> Icom
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf>
> t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
> =5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
> Yaesu
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra>
> ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
> c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!

> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>
>
> Icom ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>
> Yaesu ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

[Non-text portions of this message have been removed]

6629. Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 15:43:11 UTC
From: lajes67
Topic: 6610 Message: 6629

--- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@...> wrote:
>
> Hi, this is my first post on the group...I like very much this
hybrids radios of Kenwood and i have the TS-530S and TS820S...With the
TS820S i bought the VFO-820 but this VFO don´t have connection cable
I will make this cable but I need the connector of 9 pins .Where I can
get this item?
>
> 73 for all member of this group
> Alvaro
> PY2FWA
>
>
> [Non-text portions of this message have been removed]
>
I saw all the answers so far, basically I had to do the same thing,
order the plugs, I don't know why Kenwood had to go with that odd
arrangement, and then used regular CAT5 wire. If I can use CAT5 for
LAN runs out to 300ft and the same with "P" type phone sets, it should
be good enough for a short jumper. Haven't noticed any problems, good
luck with it.
73...John K2IZ

6630. Re: TS830s - No Power Out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 17:40:59 UTC
From: james27613
Topic: 6614 Message: 6630

hi bill,

sorry you have not rec'd any replies,

one place to check is the cathode resistors,
four 20 ohm 1/2 watt values, r2,r3,r4 and r5

if they are out of spec this can cause your problem,
if you need to replace them please use the
same 1/2 watt rating as they protect other vital
parts of the radio.

another thing to check is
C69 150pf between Q6/Q7 and grid 1 input of 12BY7A

73 james ke4drn

6631. Re: VFO Cable for 820 or 520 series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 17:47:17 UTC
From: james27613
Topic: 6610 Message: 6631

hi,

The operating manuals for these radios
have the pinouts for the vfo and transverter
connections on or about pages 14-20

73 james

6632. Re: TS830s - No Power Out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 18:31:05 UTC
From: Bill
Topic: 6614 Message: 6632

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi bill,
>
> sorry you have not rec'd any replies,
>
> one place to check is the cathode resistors,
> four 20 ohm 1/2 watt values, r2,r3,r4 and r5
>
> if they are out of spec this can cause your problem,
> if you need to replace them please use the
> same 1/2 watt rating as they protect other vital
> parts of the radio.
>
> another thing to check is
> C69 150pf between Q6/Q7 and grid 1 input of 12BY7A
>
> 73 james ke4drn
>

Thanks James! I will give those suggestions a try. It was kind of odd. I had to post this question three times over a period of 24 hours before it showed up on the list. Yahoo must have thought I was Spam! I will be printing the service manual (at work - better printer) tomorrow. Any other suggestions, procedures, etc. (especially any cautions) would really be welcome. Thanks again - Bill

6633. Re: TS830s - No Power Out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 19:36:44 UTC
From: py2fwa
Topic: 6614 Message: 6633

See (test) ""R11"" on the Rectifier Unit....

73

Alvaro
Py2FWA

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> <james27613@> wrote:
> >
> > hi bill,
> >
> > sorry you have not rec'd any replies,
> >
> > one place to check is the cathode resistors,
> > four 20 ohm 1/2 watt values, r2,r3,r4 and r5
> >
> > if they are out of spec this can cause your problem,
> > if you need to replace them please use the
> > same 1/2 watt rating as they protect other vital
> > parts of the radio.
> >
> > another thing to check is
> > C69 150pf between Q6/Q7 and grid 1 input of 12BY7A
> >
> > 73 james ke4drn
> >
>
> Thanks James! I will give those suggestions a try. It was kind
of
> odd. I had to post this question three times over a period of 24
> hours before it showed up on the list. Yahoo must have thought I
> was Spam! I will be printing the service manual (at work - better
> printer) tomorrow. Any other suggestions, procedures, etc.
> (especially any cautions) would really be welcome. Thanks again -
> Bill
>

6634. TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 22:02:10 UTC
From: Don
Topic: 6634 Message: 6634

Will some one give me the address where I can get the
pin lay out of the 8 pin acc. plug
Thanks,
Don
W4JVY

6635. Re: TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 00:27:37 UTC
From: james27613
Topic: 6634 Message: 6635

hi don,

pinout is in the owner manual, here is the data if
you don't have the manual

1 ground
2 not used
3 NC relay contact
4 ground
5 NO relay contact
6 ALC feedback
7 not used
8 external speaker

73 james

6636. SM -220 Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 01:35:54 UTC
From: Bill
Topic: 6636 Message: 6636

Is there a way of telling if an SM-220 has the bs-8 pan adapter
installed from only viewing the outside? Thanks - Bill

6637. Re: [TS-520_820_530_830] SM -220 Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 04:26:24 UTC
From: Alan Wolke
Topic: 6636 Message: 6637

Bill,

You can tell if it has a BS-8 or a BS-5, but you won't be able to tell the difference from the outside. To see if it has one of the two pan adaptors installed, take a peek through the three holes on the left side of the cabinet (the side closest to the CRT). There are three holes, towards the rear of the unit - two about halfway up, and one below. If you can see trimmer cap screw-heads in these holes, then a panadaptor is installed. If you just see inside the cabinet, there's no pan adaptor.

Alan

Bill wrote:

> Is there a way of telling if an SM-220 has the bs-8 pan adapter
> installed from only viewing the outside? Thanks - Bill
>
>
>

6638. Re: [TS-520_820_530_830] sp-230 vs sp-180

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 08:12:47 UTC
From: Richard Harris
Topic: 6605 Message: 6638

Bill,

I believe that they are the same, just a different type label. You can
download a schematic and specification from www.mods.dk that is common to
both types.

I guess it is just a bit of marketing by Kenwood, selling the same product
as the SP-230 for the 530/830 and the SP-180 for the TS-180.

Richard G3OTK

At 02:35 04/02/2006 +0000, you wrote:
>What is the difference between the SP-180 and the SP-230. The cabinet,
>buttons and grill appear identical. Is the cabinte color the same?
>Are the filters the same? The 180 seems to sell for less on (you-know-
>where) and other swap lists. Thanks - Bill
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+c
raft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>C
raft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9
A5AR8aLNA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+
and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2
w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby
+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD
8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group

> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6639. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-05 15:48:10 UTC
From: Joan de vk5kyo
Topic: 6444 Message: 6639

Hi everybody

For those interested in my original posting of the message, read below.

I am assuming that no other person has seen this problem before, except Bill-K5GCW who got in contact with me and explained he has the same problem with his 830, even after spending some considerable time cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your lucky, it may be the same problem.

A recent posting by another Bill-WB5DX, who cleaned the switches with de-oxid?? and has gone backwards in the process, may also be interested in reading this, because I think Bill may have disturbed the rivet connections of the wafers, or maybe some cleaning material is lodged in the switch as it is difficult to get in there, or he may have even bend some of the contacts. Its not hard to do.

Anyway
I did as what most of you would do and that is to remove the RF board, number each wafer, desolder each one and clean the switches and while it's out, you also solder each wafer contact to the track of the switch. This requires a lot of patience and a bit of skill to reassemble and realign all the switches before soldering them back on the board.
I found a number of contacts which were loose. The rivets were not doing their job anymore. The material must have shrunk a little. This is why you have to solder them, if you want the 830 to be reliable.

Now in Australia I heard of a saying, that whenever something gets serviced (be it electronics or otherwise), they say that "it has gone in for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I could relate to that. 2 of the switches had a liberal coating of a thick, greasy substance, and the RF board had a coating of what appears to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited measurements because the way it's mounted, and access to the track side of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced and with excitement put it together. I improved the output on 21 MHz considerably, but still not much happening on 18.

If you study the circuit, you will wonder how this capacitor could have an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone nearly short. It measured 30uH with a large D factor. The original value is 470uH.
Needless to say, I was very excited to have found it long last. I put it all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a good outcome.
I have learned a lot from this repair. One of them is that the circuit from Kenwood has mistakes in it. One that led me on the wrong path for some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem from all the symptoms it gave and I would have never guessed the faulty components. When you check everything methodically and logically over and over and over again and it still dont work, you know your in a bit of trouble.
So in the end, finding the problem, was it a fluke, lucky maybe? I dont know. What I did learn, was to make no assumptions, lots of patience, be tenacious, dont doubt what you have learned in the past, how the circuit works and I can go on. I feel great about it and someone more experienced may have done it in a tenth of my time, but you can never put a price on what you learn. I am sure the owner of the rig will be very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you readers that may develop this fault later on in the rigs life, you will save some time repairing it and get it back on air asap.
73 from down under

Joan VK5KYO

vk5kyo wrote:

> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.

> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>
>--

>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.19/231 - Release Date: 16/01/2006
>
>
>

6640. RE: [TS-520_820_530_830] sp-230 vs sp-180

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 14:42:03 UTC
From: Hauser, Ron M.
Topic: 6605 Message: 6640

A question about these speakers... I gather from reading the
descriptions that the speaker includes some AF filtering? Anyone care
to comment on what the filters are doing, are they just some high
pass/low pass filters in the speaker itself? It sounds like a good
idea, and I might either get one of the originals, or perhaps built
something.

Thanks for your thoughts!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Richard Harris
Sent: Monday, February 06, 2006 2:13 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] sp-230 vs sp-180

Bill,

I believe that they are the same, just a different type label. You can
download a schematic and specification from www.mods.dk that is common
to
both types.

I guess it is just a bit of marketing by Kenwood, selling the same
product
as the SP-230 for the 530/830 and the SP-180 for the TS-180.

Richard G3OTK

At 02:35 04/02/2006 +0000, you wrote:
>What is the difference between the SP-180 and the SP-230. The cabinet,
>buttons and grill appear identical. Is the cabinte color the same?
>Are the filters the same? The 180 seems to sell for less on (you-know-
>where) and other swap lists. Thanks - Bill
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+ho
bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s
=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham

>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+
hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5
&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radi
o&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ha
m+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cr
aft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830"
on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267

Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to
whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

Yahoo! Groups Links

6641. RE: [TS-520_820_530_830] sp-230 vs sp-180

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 16:45:12 UTC
From: Richard Harris
Topic: 6605 Message: 6641

Ron,

Looking at the specification and the schematic, there is a switch which selects a series capacitor and which rolls off the low frequency response (3dB point at 400Hz) and two switched inductors giving three combunations and which roll off the high frequency response (3dB points 1kHz, 1.5kHz or 3KHz). With none of the switches selected then the response is unfiltered.

Richard G3OTK

At 08:42 06/02/2006 -0600, you wrote:
>A question about these speakers... I gather from reading the
>descriptions that the speaker includes some AF filtering? Anyone care
>to comment on what the filters are doing, are they just some high
>pass/low pass filters in the speaker itself? It sounds like a good
>idea, and I might either get one of the originals, or perhaps built
>something.
>
>Thanks for your thoughts!
>
>73
>--Ron
>KC0TLN
>
>
>-----Original Message-----
>From: TS-520_820_530_830@yahoogroups.com
>[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Richard Harris
>Sent: Monday, February 06, 2006 2:13 AM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] sp-230 vs sp-180
>
>Bill,
>
>I believe that they are the same, just a different type label. You can
>download a schematic and specification from www.mods.dk that is common
>to
>both types.
>
>I guess it is just a bit of marketing by Kenwood, selling the same
>product
>as the SP-230 for the 530/830 and the SP-180 for the TS-180.
>
>Richard G3OTK
>
>At 02:35 04/02/2006 +0000, you wrote:

> >What is the difference between the SP-180 and the SP-230. The cabinet,
> >buttons and grill appear identical. Is the cabinte color the same?
> >Are the filters the same? The 180 seems to sell for less on (you-know-
> >where) and other swap lists. Thanks - Bill
> >
> >
> >
> >
> >
> >SPONSORED LINKS
> ><<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+ho>
> http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+ho
>bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s
>=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
> >radio
> ><<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+>
> http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+
>hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5
>&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
> >hobby
> ><<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radi>
> http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radi
>o&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ha
>m+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
> >and craft supply
> ><<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Cra>
> http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Cra
>ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
>c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
> >ham radio
> ><<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cr>
> http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cr
>aft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
>&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
> >ham radio
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> >
> "<<http://groups.yahoo.com/group/TS-520_820_530_830>http://groups.yahoo.com/group/TS-520
_820_530_830>TS-520_820_530_830"
>on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> >
><mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri

>be>TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> >
> <<http://docs.yahoo.com/info/terms/>http://docs.yahoo.com/info/terms/>Yahoo!
> Terms of Service.
> >
> >
> >
> >----------
>
>
>
>Richard Harris
>PIPS Technology Ltd,
>York House,
>School Lane,
>Chandlers Ford,
>Eastleigh
>SO53 4DG
>United Kingdom
>
>Tel +44 (0) 2380 240250
>Direct +44 (0) 2380 240267
>Mobile +44 (0) 7808 935630
>Fax +44 (0) 2380 240251
>
>Web site www.pipstechnology.com
>
>=====Confidentiality Notice=====
>This electronic mail message and any attachment may contain information
>that is legally privileged, confidential or exempt from disclosure.
>It is intended only for the use of the individual or organisation to
>whom
>it is addressed. If you are not the intended recipient it is strictly
>prohibited to disclose, use, store or copy this information
>
>==========
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>

>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,

Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6642. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 18:09:06 UTC
From: Bill Scurlock
Topic: 6444 Message: 6642

Hi Joan. That's great that you found the problem(s). I struggled for a week or so after our last email, and then decided that I wanted to enjoy the radio for a while. The only thing that doesn't work is 15M transmit, so I have been having fun with it on other bands for a week or so. I understand how L74 and C36 could "kill" the drive signal, but it looks like it would affect all bands - unless there is some weird series resonance going on that was close to 15M in my case. You can bet I will check those components the next time I take the radio apart. In all my troubleshooting processes, I made some photos and some resistance measurements that I would be glad to share with you. The photos show the repair process I used on the switch rivet problem. If you are interested, please send me your email address and I'll forward them to you as attachments. I think the size of the photo files are in the 250KB range, and the Excel spreadsheet is small. My email is k5gcw@... .

I also followed WB5DX's comments with interest. However, since I had carefully measured the resistance of each individual switch contact during repair and after being reassembled (several times), I did not think that was my situation.

On 15M, I can get about 3-5 watts output, and there is a very broad peak when tuning the Drive Control - so broad that tuning L29 makes almost no difference at all. The 15M signal at TP4 actually appears to be slightly stronger than on the other bands. Since the receiver works well on 15M, logic seems to tell me that the problem could only be in switch S1-7 or L29, but as you discovered, L74 and C36 are common to all bands. Obviously, if I was smart enough, I would have found the problem by now! So my logic is not that dependable!

Thanks for giving us the results of all your work Joan.

73, Bill, K5GCW

----- Original Message -----
From: Joan de vk5kyo
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 05, 2006 9:48 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi everybody

For those interested in my original posting of the message, read below.

I am assuming that no other person has seen this problem before, except
Bill-K5GCW who got in contact with me and explained he has the same
problem with his 830, even after spending some considerable time
cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your lucky,
it may be the same problem.

A recent posting by another Bill-WB5DX, who cleaned the switches with
de-oxid?? and has gone backwards in the process, may also be interested
in reading this, because I think Bill may have disturbed the rivet

connections of the wafers, or maybe some cleaning material is lodged in the switch as it is difficult to get in there, or he may have even bend some of the contacts. Its not hard to do.

Anyway
I did as what most of you would do and that is to remove the RF board, number each wafer, desolder each one and clean the switches and while it's out, you also solder each wafer contact to the track of the switch. This requires a lot of patience and a bit of skill to reassemble and realign all the switches before soldering them back on the board.
I found a number of contacts which were loose. The rivets were not doing their job anymore. The material must have shrunk a little. This is why you have to solder them, if you want the 830 to be reliable.

Now in Australia I heard of a saying, that whenever something gets serviced (be it electronics or otherwise), they say that "it has gone in for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I could relate to that. 2 of the switches had a liberal coating of a thick, greasy substance, and the RF board had a coating of what appears to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited measurements because the way it's mounted, and access to the track side of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced and with excitement put it together. I improved the output on 21 MHz considerably, but still not much happening on 18.
If you study the circuit, you will wonder how this capacitor could have an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone nearly short. It measured 30uH with a large D factor. The original value is 470uH.
Needless to say, I was very excited to have found it long last. I put it all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a good outcome.
I have learned a lot from this repair. One of them is that the circuit from Kenwood has mistakes in it. One that led me on the wrong path for some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem from all the symptoms it gave and I would have never guessed the faulty components. When you check everything methodically and logically over and over and over again and it still dont work, you know your in a bit of trouble.

So in the end, finding the problem, was it a fluke, lucky maybe? I dont know. What I did learn, was to make no assumptions, lots of patience, be tenacious, dont doubt what you have learned in the past, how the circuit works and I can go on. I feel great about it and someone more experienced may have done it in a tenth of my time, but you can never put a price on what you learn. I am sure the owner of the rig will be very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you readers that may develop this fault later on in the rigs life, you will save some time repairing it and get it back on air asap.
73 from down under

Joan VK5KYO

vk5kyo wrote:

> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.

> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>
>--
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.19/231 - Release Date: 16/01/2006
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6643. RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 20:23:00 UTC
From: wb4ouf
Topic: 6610 Message: 6643

Not sure if you got the source for the 9 pin "plugs". I got two from:
East Coast Transistor Parts, Inc.
2 Marlborough Road
PO Box 238
West Hempstead, New York 11552

They were $5.04 each + shipping...
Best Luck es 73's
Frank....
--- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@...>
wrote:
>
> HI.....ab8sg....now i find this item...many many thanks for your
> support, you are a "true ham".....great 73 for you, in Brasil we are
> always qrv my friend.
>
> Alvaro
> Py2fwa
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de ab8sg
> Enviada em: sábado, 4 de fevereiro de 2006 23:41
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: [TS-520_820_530_830] Re: VFO Cable for 820
>
> kenwoodparts.com
>
> search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520
>
> 73
> AB8SG
>
> --- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@> wrote:
> >
> > Ok Tim, i believe that you don´t undertand me...i need
> > the "connector" and not the "part number"....I need to
know ""WHERE
> > TO BUY"" this connector...in Files on this site dont have some
> > mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> > perhaps for this reason we are confused.
> >
> > 73´s
> > Alvaro

> >
> > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > >
> > > It has nine pins and the part number is listed on the site..
> > > 73 tim
> > > ----- Original Message -----
> > > From: py2fwa
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, February 04, 2006 4:07 PM
> > > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> > >
> > >
> > > Thanks Tim
> > > but i need with 9pins ???? for VFO-820...
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > >
> > > > The connector can be ordered and the number is listed on
the
> > > files section of this group..
> > > > About $5.00 USA funds one plug..
> > > > 73 tim
> > > > wb8uhz
> > > > ----- Original Message -----
> > > > From: py2fwa
> > > > To: TS-520_820_530_830
> > > > Sent: Saturday, February 04, 2006 3:11 PM
> > > > Subject: [TS-520_820_530_830] VFO Cable for 820
> > > >
> > > >
> > > > Hi, this is my first post on the group...I like very much
> > this
> > > > hybrids radios of Kenwood and i have the TS-530S and
> > TS820S...With
> > > > the TS820S i bought the VFO-820 but this VFO don´t have
> > connection
> > > > cable .I will make this cable but I need the connector of 9
> > > > pins..Where I can get this item?
> > > > >
> > > > > 73 for all member of this group.
> > > > > Alvaro
> > > > > PY2FWA
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > > >
> > > > >

> > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> > supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >
> > > > --

> > ----
> > > -----------
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > >
> > > > b.. To unsubscribe from this group, send an email to:
> > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> > Terms
> > > of Service.
> > > >
> > > >
> > > > --

> > ----
> > > -----------
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> > > --

> > -----------
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com

> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms
> > of Service.
> > >
> > >
> > > ----------

> > -----------
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>
>
>
> SPONSORED LINKS
>
> Ham
> <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
>
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=
> 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> Craft
> <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
5&
> s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> Hobby
> <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
>
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
am
> +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
>
> Icom
> <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
>
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio

&c
> =5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
> Yaesu
> <http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
>
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
o&
> c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscri
> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>

6644. TS 820S Freq. Display Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 20:36:15 UTC
From: wb4ouf
Topic: 6644 Message: 6644

Well, I finally got some Deoxit and it worked GREAT on my audio control problem but.... now I have no display? I did clean all the connectors and switch contacts with the Deoxit and when I fired it up there were a lot of improvements. The audio was clearer, the receiver noise went from an S8 to nil, all switches operate smoother and the VFO works perfectly BUT the display it out completely. I went back and re-connected everything...no luck. I then went to my service manual and got as far as checking the 5V supply. It's OK and all connectors seem to be "making" just fine. Anyone have any suggestions?
Thanks es 73's
Frank...

6645. RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 20:52:28 UTC
From: PY2FWA
Topic: 6610 Message: 6645

Ok Frank, thanks for information, there is no Original Cable for this VFO ? Plugs and the shielded cable? I need the two plugs and the shielded cable too .

73´s

Excume-me for my poor Inglish ok.

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de wb4ouf
Enviada em: segunda-feira, 6 de fevereiro de 2006 18:23
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RES: [TS-520_820_530_830] Re: VFO Cable for 820

Not sure if you got the source for the 9 pin "plugs". I got two from:
East Coast Transistor Parts, Inc.
2 Marlborough Road
PO Box 238
West Hempstead, New York 11552

They were $5.04 each + shipping...
Best Luck es 73's
Frank....
--- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@...>
wrote:
>
> HI.....ab8sg....now i find this item...many many thanks for your
> support, you are a "true ham".....great 73 for you, in Brasil we are
> always qrv my friend.
>
> Alvaro
> Py2fwa
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de ab8sg
> Enviada em: sábado, 4 de fevereiro de 2006 23:41
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: [TS-520_820_530_830] Re: VFO Cable for 820
>
> kenwoodparts.com
>
> search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520
>

> 73
> AB8SG
>
> --- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@> wrote:
> >
> > Ok Tim, i believe that you don´t undertand me...i need
> > the "connector" and not the "part number"....I need to
know ""WHERE
> > TO BUY"" this connector...in Files on this site dont have some
> > mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> > perhaps for this reason we are confused.
> >
> > 73´s
> > Alvaro
> >
> > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > >
> > > It has nine pins and the part number is listed on the site..
> > > 73 tim
> > > ----- Original Message -----
> > > From: py2fwa
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Saturday, February 04, 2006 4:07 PM
> > > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> > >
> > >
> > > Thanks Tim
> > > but i need with 9pins ???? for VFO-820...
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > >
> > > > The connector can be ordered and the number is listed on
the
> > > files section of this group..
> > > > About $5.00 USA funds one plug..
> > > > 73 tim
> > > > wb8uhz
> > > > ----- Original Message -----
> > > > From: py2fwa
> > > > To: TS-520_820_530_830
> > > > Sent: Saturday, February 04, 2006 3:11 PM
> > > > Subject: [TS-520_820_530_830] VFO Cable for 820
> > > >
> > > >
> > > > Hi, this is my first post on the group...I like very much
> > this
> > > hybrids radios of Kenwood and i have the TS-530S and
> > TS820S...With

> > > the TS820S i bought the VFO-820 but this VFO don´t have
> > connection
> > > cable .I will make this cable but I need the connector of 9
> > > pins..Where I can get this item?
> > > >
> > > > 73 for all member of this group.
> > > > Alvaro
> > > > PY2FWA
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > > >
> > > >
> > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> > supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >
> > > > --

> > ----
> > > -----------
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > >
> > > > b.. To unsubscribe from this group, send an email to:
> > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> > Terms
> > > of Service.
> > > >
> > > >
> > > > --

> > ----
> > > -----------
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >

> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
supply
> > > Icom ham radio Yaesu ham radio
> > >
> > >
> > > ---

> > ----------
> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms
> > of Service.
> > >
> > >
> > > ---

> > ----------
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>
>
>
> SPONSORED LINKS
>
> Ham
> <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
>
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=
> 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> Craft
> <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
5&

> s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> Hobby
> <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
>
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
am
> +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
>
> Icom
> <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
>
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
&c
> =5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
> Yaesu
> <http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
>
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
o&
> c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscri
> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=
101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6646. RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 21:42:10 UTC
From: wb4ouf
Topic: 6610 Message: 6646

That is correct. The cable assy. is no longer available. You can
order the two end plugs and, as one other has suggested, get a piece
of shielded CAT 5 cable (ethernet cable) and wire it up as per the
diagram in the manual. That should do it....
Good luck es 73's
Frank....
--- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@...>
wrote:
>
> Ok Frank, thanks for information, there is no Original Cable for
this
> VFO ? Plugs and the shielded cable? I need the two plugs and the
> shielded cable too .
>
> 73´s
>
> Excume-me for my poor Inglish ok.
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de wb4ouf
> Enviada em: segunda-feira, 6 de fevereiro de 2006 18:23
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: RES: [TS-520_820_530_830] Re: VFO Cable for 820
>
> Not sure if you got the source for the 9 pin "plugs". I got two
from:
> East Coast Transistor Parts, Inc.
> 2 Marlborough Road
> PO Box 238
> West Hempstead, New York 11552
>
> They were $5.04 each + shipping...
> Best Luck es 73's
> Frank....
> --- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@>
> wrote:
> >
> > HI.....ab8sg....now i find this item...many many thanks for your
> > support, you are a "true ham".....great 73 for you, in Brasil we
are
> > always qrv my friend.
> >
> > Alvaro

> > Py2fwa
> >
> >
> > -----Mensagem original-----
> > De: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de ab8sg
> > Enviada em: sábado, 4 de fevereiro de 2006 23:41
> > Para: TS-520_820_530_830@yahoogroups.com
> > Assunto: [TS-520_820_530_830] Re: VFO Cable for 820
> >
> > kenwoodparts.com
> >
> > search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520
> >
> > 73
> > AB8SG
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@>
wrote:
> > >
> > > Ok Tim, i believe that you don´t undertand me...i need
> > > the "connector" and not the "part number"....I need to
> know ""WHERE
> > > TO BUY"" this connector...in Files on this site dont have some
> > > mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> > > perhaps for this reason we are confused.
> > >
> > > 73´s
> > > Alvaro
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > >
> > > > It has nine pins and the part number is listed on the site..
> > > > 73 tim
> > > > ----- Original Message -----
> > > > From: py2fwa
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Saturday, February 04, 2006 4:07 PM
> > > > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> > > >
> > > >
> > > > Thanks Tim
> > > > but i need with 9pins ???? for VFO-820...
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > > >
> > > > > The connector can be ordered and the number is listed

on
> the
> > > > files section of this group..
> > > > > About $5.00 USA funds one plug..
> > > > > 73 tim
> > > > > wb8uhz
> > > > > ----- Original Message -----
> > > > > From: py2fwa
> > > > > To: TS-520_820_530_830
> > > > > Sent: Saturday, February 04, 2006 3:11 PM
> > > > > Subject: [TS-520_820_530_830] VFO Cable for 820
> > > > >
> > > > >
> > > > > Hi, this is my first post on the group...I like very
much
> > > this
> > > > hybrids radios of Kenwood and i have the TS-530S and
> > > TS820S...With
> > > > the TS820S i bought the VFO-820 but this VFO don´t have
> > > connection
> > > > cable .I will make this cable but I need the connector of 9
> > > > pins..Where I can get this item?
> > > > >
> > > > > 73 for all member of this group.
> > > > > Alvaro
> > > > > PY2FWA
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > > >
> > > > >
> > > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> > > supply
> > > > Icom ham radio Yaesu ham radio
> > > > >
> > > > >
> > > > > ----------
--
> ---
> > > ----
> > > > ----------
> > > > > YAHOO! GROUPS LINKS
> > > > >
> > > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > > >
> > > > > b.. To unsubscribe from this group, send an email to:
> > > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > > >

> > > > > c.. Your use of Yahoo! Groups is subject to the
Yahoo!
> > > Terms
> > > > of Service.
> > > > >
> > > > >
> > > > > ----------
--
> ---
> > > ----
> > > > ----------
> > > > >
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >
> > > > ----------
--
> ---
> > > ----------
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > >
> > > > b.. To unsubscribe from this group, send an email to:
> > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> Terms
> > > of Service.
> > > >
> > > >
> > > > ----------
--
> ---
> > > ----------
> > > >
> > > >

> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
> >
> >
> >
> >
> >
> > SPONSORED LINKS
> >
> > Ham
> > <http://groups.yahoo.com/gads?
> t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> >
>
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
> s=
> > 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> > Craft
> > <http://groups.yahoo.com/gads?
> t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> >
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
> 5&
> > s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> > Hobby
> > <http://groups.yahoo.com/gads?
> t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> >
>
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
> am
> > +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
> >
> > Icom
> > <http://groups.yahoo.com/gads?
> t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
> >
>
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
> &c
> > =5&s=101&.sig=_InABMy_m6ICJHFiWobT2w> ham radio
> > Yaesu
> > <http://groups.yahoo.com/gads?
> t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
> >

>
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
> o&
> > c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
> >
> >
> > _____
> >
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
> subject=Unsubscri
> > be>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo!
> > <http://docs.yahoo.com/info/terms/> Terms of Service.
> >
> > _____
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS
>
> Ham
> <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
>
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=
> 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> Craft
> <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
5&

> s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> Hobby
> <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
>
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
am
> +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
>
> Icom
> <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
>
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
&c
> =5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
> Yaesu
> <http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
>
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
o&
> c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@...m?
subject=Unsubscri
> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>

6647. RES: [TS-520_820_530_830] Re: VFO Cable for 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 21:47:24 UTC
From: PY2FWA
Topic: 6610 Message: 6647

OK Frank, i will make this....

73

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de wb4ouf
Enviada em: segunda-feira, 6 de fevereiro de 2006 19:42
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RES: [TS-520_820_530_830] Re: VFO Cable for 820

That is correct. The cable assy. is no longer available. You can
order the two end plugs and, as one other has suggested, get a piece
of shielded CAT 5 cable (ethernet cable) and wire it up as per the
diagram in the manual. That should do it....
Good luck es 73's
Frank....
--- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@...>
wrote:
>
> Ok Frank, thanks for information, there is no Original Cable for
this
> VFO ? Plugs and the shielded cable? I need the two plugs and the
> shielded cable too .
>
> 73´s
>
> Excume-me for my poor Inglish ok.
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de wb4ouf
> Enviada em: segunda-feira, 6 de fevereiro de 2006 18:23
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: RES: [TS-520_820_530_830] Re: VFO Cable for 820
>
> Not sure if you got the source for the 9 pin "plugs". I got two
from:
> East Coast Transistor Parts, Inc.
> 2 Marlborough Road
> PO Box 238
> West Hempstead, New York 11552

>
> They were $5.04 each + shipping...
> Best Luck es 73's
> Frank....
> --- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@>
> wrote:
> >
> > HI.....ab8sg....now i find this item...many many thanks for your
> > support, you are a "true ham".....great 73 for you, in Brasil we
are
> > always qrv my friend.
> >
> > Alvaro
> > Py2fwa
> >
> >
> > -----Mensagem original-----
> > De: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de ab8sg
> > Enviada em: sábado, 4 de fevereiro de 2006 23:41
> > Para: TS-520_820_530_830@yahoogroups.com
> > Assunto: [TS-520_820_530_830] Re: VFO Cable for 820
> >
> > kenwoodparts.com
> >
> > search for part number: E05-0901-05 TS-820 9P VFO PLUG TS-520
> >
> > 73
> > AB8SG
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "py2fwa" <py2fwa@>
wrote:
> > >
> > > Ok Tim, i believe that you don´t undertand me...i need
> > > the "connector" and not the "part number"....I need to
> know ""WHERE
> > > TO BUY"" this connector...in Files on this site dont have some
> > > mention about WHERE TO BUY...sorry, but my Inglish is very bad,
> > > perhaps for this reason we are confused.
> > >
> > > 73´s
> > > Alvaro
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > >
> > > > It has nine pins and the part number is listed on the site..
> > > > 73 tim
> > > > ----- Original Message -----
> > > > From: py2fwa

> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Saturday, February 04, 2006 4:07 PM
> > > > Subject: [TS-520_820_530_830] Re: VFO Cable for 820
> > > >
> > > >
> > > > Thanks Tim
> > > > but i need with 9pins ???? for VFO-820...
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, <amfone@> wrote:
> > > > >
> > > > > The connector can be ordered and the number is listed
on
> the
> > > > files section of this group..
> > > > > About $5.00 USA funds one plug..
> > > > > 73 tim
> > > > > wb8uhz
> > > > > ----- Original Message -----
> > > > > From: py2fwa
> > > > > To: TS-520_820_530_830
> > > > > Sent: Saturday, February 04, 2006 3:11 PM
> > > > > Subject: [TS-520_820_530_830] VFO Cable for 820
> > > > >
> > > > >
> > > > > Hi, this is my first post on the group...I like very
much
> > > this
> > > > hybrids radios of Kenwood and i have the TS-530S and
> > > TS820S...With
> > > > the TS820S i bought the VFO-820 but this VFO don´t have
> > > connection
> > > > cable .I will make this cable but I need the connector of 9
> > > > pins..Where I can get this item?
> > > > >
> > > > > 73 for all member of this group.
> > > > > Alvaro
> > > > > PY2FWA
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > > >
> > > > >
> > > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> > > supply
> > > > Icom ham radio Yaesu ham radio
> > > > >

> > > > >
> > > > > ----------
--
> ---
> > > ----
> > > > ----------
> > > > > YAHOO! GROUPS LINKS
> > > > >
> > > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > > >
> > > > > b.. To unsubscribe from this group, send an email to:
> > > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > > >
> > > > > c.. Your use of Yahoo! Groups is subject to the
Yahoo!
> > > Terms
> > > > of Service.
> > > > >
> > > > >
> > > > > ----------
--
> ---
> > > ----
> > > > ----------
> > > > >
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
> supply
> > > > Icom ham radio Yaesu ham radio
> > > >
> > > >
> > > > ----------
--
> ---
> > > ----------
> > > > YAHOO! GROUPS LINKS
> > > >
> > > > a.. Visit your group "TS-520_820_530_830" on the web.
> > > >
> > > > b.. To unsubscribe from this group, send an email to:

> > > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > >
> > > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
> Terms
> > > of Service.
> > > >
> > > >
> > > > ----------
--
> ---
> > > ----------
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
> >
> >
> >
> >
> >
> > SPONSORED LINKS
> >
> > Ham
> > <http://groups.yahoo.com/gads?
> t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> >
>
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
> s=
> > 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> > Craft
> > <http://groups.yahoo.com/gads?
> t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> >
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
> 5&
> > s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> > Hobby
> > <http://groups.yahoo.com/gads?
> t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> >
>
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
> am
> > +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

> >
> > Icom
> > <http://groups.yahoo.com/gads?
> t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
> >
>
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
> &c
> > =5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
> > Yaesu
> > <http://groups.yahoo.com/gads?
> t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
> >
>
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
> o&
> > c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
> >
> >
> > _____
> >
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
> subject=Unsubscri
> > be>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo!
> > <http://docs.yahoo.com/info/terms/> Terms of Service.
> >
> > _____
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS
>

> Ham
> <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
>
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=
> 101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
> Craft
> <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
>
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
5&
> s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
> Hobby
> <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
>
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
am
> +radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply
>
> Icom
> <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
>
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
&c
> =5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
> Yaesu
> <http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
>
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
o&
> c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio
>
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscri

> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=
101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6648. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-06 20:52:04 UTC
From: Dave and Loraine
Topic: 6444 Message: 6648

Well done Joan! and good advice.
Dave F4EYK

6649. Re: 'Fix' lamp comes on -- and other items

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 00:07:40 UTC
From: Brent Baum
Topic: 6582 Message: 6649

Regarding question #2. Most likely a bad cable, use your ohm meter to check for continuity through each wire. When you connect the VFO-520, does the DG-5 blank out and you seem to lose all receive noise? If so, then you definitely have a bad connection in the cable.

I'll let wiser heads attack the other two questions.

Brent
K7MEI

--- In TS-520_820_530_830@yahoogroups.com, "Bill Barron" <W1WAB@...> wrote:
>
> I'm working to get my TS-520SE operational. I've made good progress
> and can even get the rig tuned up and resonating into a dummy load --
> even though the max RF I'm getting is about 55 watts -- probably a
> function of aged, soft 6146s. [IP and ALC are on spec].
>
> I've got all the accessories -- the VFO-520S, the DG-5, the SP-520,
> the SM-220 and the tuner and can't wait to get the whole thing
> running smoothly.
>
> Three questions:
>
> 1) I'm missing one plastic toggle arm over the wide/nar switch. Does
> anyone know where I can get a replacement?
>
> 2) My VFO-520S doesn't seem to want to work with the 520SE. Neither
> does the spare VFO-520 I have. Is this just a bad interconnect cable
> problem?
>
> 3) The 'fix' lamp illuminates on some [not all] occaisions when the
> function switch is placed in VFO mode. The lamp does not light ever
> in the VFO.R position. Is this just a quirk or bad / leaky switch,
> or is it a sign of more serious issues? I can't see that it effects
> the rig at all. The proper VFO jumpered plug is inserted in the

rig.
> No fixed channels are installed.
>
> 73,
> Bill W1WAB
>

6650. Re: [TS-520_820_530_830] Re: TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 00:41:26 UTC
From: Don
Topic: 6634 Message: 6650

james27613 wrote:

> hi don,
>
> pinout is in the owner manual, here is the data if
> you don't have the manual
>
> 1 ground
> 2 not used
> 3 NC relay contact
> 4 ground
> 5 NO relay contact
> 6 ALC feedback
> 7 not used
> 8 external speaker
>
> 73 james
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>
>
> Icom ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>
> Yaesu ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>
>
>
>

> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>
Thanks,
Don.

[Non-text portions of this message have been removed]

6651. Re: [TS-520_820_530_830] TS 820S Freq. Display Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 01:32:17 UTC
From: Dave Franklin
Topic: 6644 Message: 6651

Frank,

These display problems are often caused by poor connections on the DG-1.
Take a look at this
link for a good procedure for eliminating the problem.

http://www.radiomods.co.nz/kenwood/kenwooddg1.html

73 and Good Luck,
Dave

----- Original Message -----
From: "wb4ouf" <wb4ouf@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, February 06, 2006 3:36 PM
Subject: [TS-520_820_530_830] TS 820S Freq. Display Problem

> Well, I finally got some Deoxit and it worked GREAT on my audio control
> problem but.... now I have no display? I did clean all the connectors
> and switch contacts with the Deoxit and when I fired it up there were a
> lot of improvements. The audio was clearer, the receiver noise went
> from an S8 to nil, all switches operate smoother and the VFO works
> perfectly BUT the display it out completely. I went back and re-
> connected everything...no luck. I then went to my service manual and
> got as far as checking the 5V supply. It's OK and all connectors seem
> to be "making" just fine. Anyone have any suggestions?
> Thanks es 73's
> Frank...

6652. Re: [TS-520_820_530_830] TS 820S Freq. Display Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 10:04:14 UTC
From: Walt Breining
Topic: 6644 Message: 6652

With a magnifying glass, check the solder connections to the pins where the supply and the display cables plug into the box. They often break loose on the solder side of the board. I particularly suspect this since you had these unplugged and replugged.

vy 73, Walt N9WB

----- Original Message -----
From: "Dave Franklin" <dfranklyn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, February 06, 2006 8:32 PM
Subject: Re: [TS-520_820_530_830] TS 820S Freq. Display Problem

> Frank,
>
> These display problems are often caused by poor connections on the DG-1.
> Take a look at this
> link for a good procedure for eliminating the problem.
>
> http://www.radiomods.co.nz/kenwood/kenwooddg1.html
>
> 73 and Good Luck,
> Dave
>
>
> ----- Original Message -----
> From: "wb4ouf" <wb4ouf@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, February 06, 2006 3:36 PM
> Subject: [TS-520_820_530_830] TS 820S Freq. Display Problem
>
>
> > Well, I finally got some Deoxit and it worked GREAT on my audio control
> > problem but.... now I have no display? I did clean all the connectors
> > and switch contacts with the Deoxit and when I fired it up there were a
> > lot of improvements. The audio was clearer, the receiver noise went
> > from an S8 to nil, all switches operate smoother and the VFO works
> > perfectly BUT the display it out completely. I went back and re-
> > connected everything...no luck. I then went to my service manual and
> > got as far as checking the 5V supply. It's OK and all connectors seem
> > to be "making" just fine. Anyone have any suggestions?
> > Thanks es 73's
> > Frank...
>
>
>

>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6653. Re: [TS-520_820_530_830] TS 820S Freq. Display Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 11:24:04 UTC
From: Joan de vk5kyo
Topic: 6644 Message: 6653

Hi Frank

I agree with Walt.
I have worked on my TS930, 940, TR-7730, TR-9130 and the latest a
friends TS-830 and while unplugging the board, I even pulled whole
connectors out of circuit boards.
Kenwood must have had a big problem with their soldering process on a
large number of earlier sets. Many of these ailments have already been
posted and are well documented.
Other than finding a lot of dry joints, I also found the connectors pins
nickel plating or whatever they used tended to seperate from the pin
after many years of operation.
All the best finding it.

Joan VK5KYO

Walt Breining wrote:

> With a magnifying glass, check the solder connections to the pins
> where the
> supply and the display cables plug into the box. They often break loose on
> the solder side of the board. I particularly suspect this since you had
> these unplugged and replugged.
>
> vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Dave Franklin" <dfranklyn@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, February 06, 2006 8:32 PM
> Subject: Re: [TS-520_820_530_830] TS 820S Freq. Display Problem
>
>
> > Frank,
> >
> > These display problems are often caused by poor connections on the DG-1.
> > Take a look at this
> > link for a good procedure for eliminating the problem.
> >
> > http://www.radiomods.co.nz/kenwood/kenwooddg1.html
> >
> > 73 and Good Luck,
> > Dave
> >
> >
> > ----- Original Message -----

> > From: "wb4ouf" <wb4ouf@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Monday, February 06, 2006 3:36 PM
> > Subject: [TS-520_820_530_830] TS 820S Freq. Display Problem
> >
> >
> > > Well, I finally got some Deoxit and it worked GREAT on my audio
> control
> > > problem but.... now I have no display? I did clean all the connectors
> > > and switch contacts with the Deoxit and when I fired it up there
> were a
> > > lot of improvements. The audio was clearer, the receiver noise went
> > > from an S8 to nil, all switches operate smoother and the VFO works
> > > perfectly BUT the display it out completely. I went back and re-
> > > connected everything...no luck. I then went to my service manual and
> > > got as far as checking the 5V supply. It's OK and all connectors seem
> > > to be "making" just fine. Anyone have any suggestions?
> > > Thanks es 73's
> > > Frank...
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+
craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&
w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL
9A5AR8aLNA>
>
> Icom ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby
+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT

2w>
> Yaesu ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.15.2/251 - Release Date: 4/02/2006
>
>

6654. Re: TS 820S Freq. Display Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 12:53:23 UTC
From: wb4ouf
Topic: 6644 Message: 6654

Thank you all for the suggestions. I will be making these checks
ASAP. Will post my findings. Thanks again es 73's.
Frank...

--- In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo
<VK5KYO@...> wrote:
>
> Hi Frank
>
> I agree with Walt.
> I have worked on my TS930, 940, TR-7730, TR-9130 and the latest a
> friends TS-830 and while unplugging the board, I even pulled whole
> connectors out of circuit boards.
> Kenwood must have had a big problem with their soldering process on
a
> large number of earlier sets. Many of these ailments have already
been
> posted and are well documented.
> Other than finding a lot of dry joints, I also found the connectors
pins
> nickel plating or whatever they used tended to seperate from the
pin
> after many years of operation.
> All the best finding it.
>
> Joan VK5KYO
>
> Walt Breining wrote:
>
> > With a magnifying glass, check the solder connections to the pins
> > where the
> > supply and the display cables plug into the box. They often break
loose on
> > the solder side of the board. I particularly suspect this since
you had
> > these unplugged and replugged.
> >
> > vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "Dave Franklin" <dfranklyn@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Monday, February 06, 2006 8:32 PM
> > Subject: Re: [TS-520_820_530_830] TS 820S Freq. Display Problem
> >

> >
> > > Frank,
> > >
> > > These display problems are often caused by poor connections on
the DG-1.
> > > Take a look at this
> > > link for a good procedure for eliminating the problem.
> > >
> > > http://www.radiomods.co.nz/kenwood/kenwooddg1.html
> > >
> > > 73 and Good Luck,
> > > Dave
> > >
> > >
> > > ----- Original Message -----
> > > From: "wb4ouf" <wb4ouf@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Monday, February 06, 2006 3:36 PM
> > > Subject: [TS-520_820_530_830] TS 820S Freq. Display Problem
> > >
> > >
> > > > Well, I finally got some Deoxit and it worked GREAT on my
audio
> > control
> > > > problem but.... now I have no display? I did clean all the
connectors
> > > > and switch contacts with the Deoxit and when I fired it up
there
> > were a
> > > > lot of improvements. The audio was clearer, the receiver
noise went
> > > > from an S8 to nil, all switches operate smoother and the VFO
works
> > > > perfectly BUT the display it out completely. I went back and
re-
> > > > connected everything...no luck. I then went to my service
manual and
> > > > got as far as checking the 5V supply. It's OK and all
connectors seem
> > > > to be "making" just fine. Anyone have any suggestions?
> > > > Thanks es 73's
> > > > Frank...
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >

> > >
> > >
> > >
> > >
> > >
> >
> >
> >
> > SPONSORED LINKS
> > Ham radio
> > <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd
1LT5w>
> > Craft hobby
> > <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
ly&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-
PXBTtOVJV48uzEVQ>
> > Hobby and craft supply
> > <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1j
uq9z5gSL9A5AR8aLNA>
> >
> > Icom ham radio
> > <http://groups.yahoo.com/gads?
t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+s
upply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lC
JHFiWobT2w>
> > Yaesu ham radio
> > <http://groups.yahoo.com/gads?
t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+
supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-
vjTYO4qyD8w>
> >
> >
> >
> > ---

> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
> >
> > * To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>

> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> > --

> >
> >--

> >
> >No virus found in this incoming message.
> >Checked by AVG Free Edition.
> >Version: 7.1.375 / Virus Database: 267.15.2/251 - Release Date:
4/02/2006
> >
> >
>

6655. RE: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 18:12:35 UTC
From: Hauser, Ron M.
Topic: 6444 Message: 6655

Bill and Joan, thanks for posting all this information. My name is Ron and I have an 830 that I acquired which seems to have a similar symptom, in my case no drive and no power on 30m (receive ok). All other bands output ok, but some intermittent behavior that I am tentatively attributing to bandswitch problems. This rig had bad cathode resistors when I first got it so I made those repairs and have been just enjoying the rig for a while. But I am about ready to pull the covers off again and see if I can figure out the 30m problem. Bill I would appreciate if you would send your photos and other data to me at rhauser@...

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill Scurlock
Sent: Monday, February 06, 2006 12:09 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi Joan. That's great that you found the problem(s). I struggled for a week or so after our last email, and then decided that I wanted to enjoy the radio for a while. The only thing that doesn't work is 15M transmit, so I have been having fun with it on other bands for a week or so. I understand how L74 and C36 could "kill" the drive signal, but it looks like it would affect all bands - unless there is some weird series resonance going on that was close to 15M in my case. You can bet I will check those components the next time I take the radio apart. In all my troubleshooting processes, I made some photos and some resistance measurements that I would be glad to share with you. The photos show the repair process I used on the switch rivet problem. If you are interested, please send me your email address and I'll forward them to you as attachments. I think the size of the photo files are in the 250KB range, and the Excel spreadsheet is small. My email is k5gcw@...

I also followed WB5DX's comments with interest. However, since I had carefully measured the resistance of each individual switch contact during repair and after being reassembled (several times), I did not think that was my situation.

On 15M, I can get about 3-5 watts output, and there is a very broad peak when tuning the Drive Control - so broad that tuning L29 makes almost no difference at all. The 15M signal at TP4 actually appears to be

slightly stronger than on the other bands. Since the receiver works
well on 15M, logic seems to tell me that the problem could only be in
switch S1-7 or L29, but as you discovered, L74 and C36 are common to all
bands. Obviously, if I was smart enough, I would have found the problem
by now! So my logic is not that dependable!

Thanks for giving us the results of all your work Joan.

73, Bill, K5GCW

----- Original Message -----
From: Joan de vk5kyo
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 05, 2006 9:48 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi everybody

For those interested in my original posting of the message, read
below.

I am assuming that no other person has seen this problem before,
except
Bill-K5GCW who got in contact with me and explained he has the same
problem with his 830, even after spending some considerable time
cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your
lucky,
it may be the same problem.

A recent posting by another Bill-WB5DX, who cleaned the switches with
de-oxid?? and has gone backwards in the process, may also be
interested
in reading this, because I think Bill may have disturbed the rivet
connections of the wafers, or maybe some cleaning material is lodged
in
the switch as it is difficult to get in there, or he may have even
bend
some of the contacts. Its not hard to do.

Anyway
I did as what most of you would do and that is to remove the RF board,

number each wafer, desolder each one and clean the switches and while
it's out, you also solder each wafer contact to the track of the
switch.
This requires a lot of patience and a bit of skill to reassemble and
realign all the switches before soldering them back on the board.
I found a number of contacts which were loose. The rivets were not
doing
their job anymore. The material must have shrunk a little. This is why

you have to solder them, if you want the 830 to be reliable.

Now in Australia I heard of a saying, that whenever something gets serviced (be it electronics or otherwise), they say that "it has gone in
for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I could relate to that. 2 of the switches had a liberal coating of a thick, greasy substance, and the RF board had a coating of what appears
to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited measurements because the way it's mounted, and access to the track side
of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced

and with excitement put it together. I improved the output on 21 MHz considerably, but still not much happening on 18.
If you study the circuit, you will wonder how this capacitor could have
an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone
nearly short. It measured 30uH with a large D factor. The original value
is 470uH.
Needless to say, I was very excited to have found it long last. I put it
all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a
good outcome.
I have learned a lot from this repair. One of them is that the circuit

from Kenwood has mistakes in it. One that led me on the wrong path for

some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem from all the symptoms it gave and I would have never guessed the faulty
components. When you check everything methodically and logically over and over and over again and it still dont work, you know your in a bit

of trouble.
So in the end, finding the problem, was it a fluke, lucky maybe? I dont

know. What I did learn, was to make no assumptions, lots of patience,
be
tenacious, dont doubt what you have learned in the past, how the
circuit
works and I can go on. I feel great about it and someone more
experienced may have done it in a tenth of my time, but you can never
put a price on what you learn. I am sure the owner of the rig will be
very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you

readers that may develop this fault later on in the rigs life, you
will
save some time repairing it and get it back on air asap.
73 from down under

Joan VK5KYO

vk5kyo wrote:

> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.

>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

>

>---
-
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.19/231 - Release Date:
16/01/2006
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

6656. RE: [TS-520_820_530_830] sp-230 vs sp-180

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 18:15:15 UTC
From: Hauser, Ron M.
Topic: 6605 Message: 6656

Thanks Richard!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Richard Harris
Sent: Monday, February 06, 2006 10:45 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] sp-230 vs sp-180

Ron,

Looking at the specification and the schematic, there is a switch which
selects a series capacitor and which rolls off the low frequency
response
(3dB point at 400Hz) and two switched inductors giving three
combunations
and which roll off the high frequency response (3dB points 1kHz, 1.5kHz
or
3KHz). With none of the switches selected then the response is
unfiltered.

Richard G3OTK

At 08:42 06/02/2006 -0600, you wrote:
>A question about these speakers... I gather from reading the
>descriptions that the speaker includes some AF filtering? Anyone care
>to comment on what the filters are doing, are they just some high
>pass/low pass filters in the speaker itself? It sounds like a good
>idea, and I might either get one of the originals, or perhaps built
>something.
>
>Thanks for your thoughts!
>
>73
>--Ron
>KC0TLN
>
>
>-----Original Message-----
>From: TS-520_820_530_830@...m
>[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Richard Harris
>Sent: Monday, February 06, 2006 2:13 AM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] sp-230 vs sp-180
>
>Bill,

>
>I believe that they are the same, just a different type label. You can
>download a schematic and specification from www.mods.dk that is common
>to
>both types.
>
>I guess it is just a bit of marketing by Kenwood, selling the same
>product
>as the SP-230 for the 530/830 and the SP-180 for the TS-180.
>
>Richard G3OTK
>
>At 02:35 04/02/2006 +0000, you wrote:
> >What is the difference between the SP-180 and the SP-230. The
cabinet,
> >buttons and grill appear identical. Is the cabinte color the same?
> >Are the filters the same? The 180 seems to sell for less on
(you-know-
> >where) and other swap lists. Thanks - Bill
> >
> >
> >
> >
> >
> >SPONSORED LINKS
>
><<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+h
o>
> http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+ho
>bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s
>=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
> >radio
>
><<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft
+>
> http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+
>hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=
5
>&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
> >hobby
>
><<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+rad
i>
> http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radi
>o&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+h
a
>m+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby
> >and craft supply
>

><<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Cr
a>
> http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Cra
>ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
&
>c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
> >ham radio
>
><<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=C
r>
> http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cr
>aft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radi
o
>&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
> >ham radio
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> >
>
"<<http://groups.yahoo.com/group/TS-520_820_530_830>http://groups.yahoo.
com/group/TS-520_820_530_830>TS-520_820_530_830"
>on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> >
><mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscr
i
>be>TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> >
>
<<http://docs.yahoo.com/info/terms/>http://docs.yahoo.com/info/terms/>Ya
hoo!
> Terms of Service.
> >
> >
> >
> >----------
>
>
>
>Richard Harris
>PIPS Technology Ltd,

>York House,
>School Lane,
>Chandlers Ford,
>Eastleigh
>SO53 4DG
>United Kingdom
>
>Tel +44 (0) 2380 240250
>Direct +44 (0) 2380 240267
>Mobile +44 (0) 7808 935630
>Fax +44 (0) 2380 240251
>
>Web site www.pipstechnology.com
>
>=====Confidentiality Notice=====
>This electronic mail message and any attachment may contain information
>that is legally privileged, confidential or exempt from disclosure.
>It is intended only for the use of the individual or organisation to
>whom
>it is addressed. If you are not the intended recipient it is strictly
>prohibited to disclose, use, store or copy this information
>
>=========================
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+ho
bby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s
=101&.sig=NStjWgsFtXmQaGrYd1LT5w>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+
hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5
&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radi
o&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ha
m+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA>Hobby

>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w>Icom
>ham radio
><http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cr
aft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio
&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w>Yaesu
>ham radio
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830"
on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.

It is intended only for the use of the individual or organisation to
whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

Yahoo! Groups Links

6657. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 21:31:23 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 6657

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /REPAIRS AND ALIGNMENT/TS 830 notes from VK5KYO
Uploaded by : n9wb <n9wb@...>
Description : TS-830 repair notes, bandswitch etc.

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/REPAIRS%20AND%20ALIGNMENT/TS%20830%20notes%20from%20VK5KYO

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

n9wb <n9wb@...>

6658. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-07 22:15:43 UTC
From: Bill Scurlock
Topic: 6444 Message: 6658

Ron, I forgot to mention in my other email to be sure and check that the rig was modified to TX on 30M. There appear to be 2 ways to make the Tx modification - individual bands, or all 3 WARC bands at once.

73, Bill, K5GCW
----- Original Message -----
From: Hauser, Ron M.
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, February 07, 2006 12:12 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

Bill and Joan, thanks for posting all this information. My name is Ron and I have an 830 that I acquired which seems to have a similar symptom, in my case no drive and no power on 30m (receive ok). All other bands output ok, but some intermittent behavior that I am tentatively attributing to bandswitch problems. This rig had bad cathode resistors when I first got it so I made those repairs and have been just enjoying the rig for a while. But I am about ready to pull the covers off again and see if I can figure out the 30m problem. Bill I would appreciate if you would send your photos and other data to me at rhauser@...

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill Scurlock
Sent: Monday, February 06, 2006 12:09 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi Joan. That's great that you found the problem(s). I struggled for a week or so after our last email, and then decided that I wanted to enjoy the radio for a while. The only thing that doesn't work is 15M transmit, so I have been having fun with it on other bands for a week or so. I understand how L74 and C36 could "kill" the drive signal, but it looks like it would affect all bands - unless there is some weird series resonance going on that was close to 15M in my case. You can bet I will check those components the next time I take the radio apart. In all my troubleshooting processes, I made some photos and some resistance measurements that I would be glad to share with you. The photos show the repair process I used on the switch rivet problem. If you are interested, please send me your email address and I'll forward them to you as attachments. I think the size of the photo files are in the

250KB range, and the Excel spreadsheet is small. My email is k5gcw@...

I also followed WB5DX's comments with interest. However, since I had carefully measured the resistance of each individual switch contact during repair and after being reassembled (several times), I did not think that was my situation.

On 15M, I can get about 3-5 watts output, and there is a very broad peak when tuning the Drive Control - so broad that tuning L29 makes almost no difference at all. The 15M signal at TP4 actually appears to be slightly stronger than on the other bands. Since the receiver works well on 15M, logic seems to tell me that the problem could only be in switch S1-7 or L29, but as you discovered, L74 and C36 are common to all bands. Obviously, if I was smart enough, I would have found the problem by now! So my logic is not that dependable!

Thanks for giving us the results of all your work Joan.

73, Bill, K5GCW

----- Original Message -----
From: Joan de vk5kyo
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, February 05, 2006 9:48 AM
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi everybody

For those interested in my original posting of the message, read below.

I am assuming that no other person has seen this problem before, except
Bill-K5GCW who got in contact with me and explained he has the same problem with his 830, even after spending some considerable time cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your lucky,
it may be the same problem.

A recent posting by another Bill-WB5DX, who cleaned the switches with de-oxid?? and has gone backwards in the process, may also be interested
in reading this, because I think Bill may have disturbed the rivet connections of the wafers, or maybe some cleaning material is lodged in
the switch as it is difficult to get in there, or he may have even bend
some of the contacts. Its not hard to do.

Anyway
I did as what most of you would do and that is to remove the RF board,

number each wafer, desolder each one and clean the switches and while it's out, you also solder each wafer contact to the track of the switch.
This requires a lot of patience and a bit of skill to reassemble and realign all the switches before soldering them back on the board.
I found a number of contacts which were loose. The rivets were not doing
their job anymore. The material must have shrunk a little. This is why

you have to solder them, if you want the 830 to be reliable.

Now in Australia I heard of a saying, that whenever something gets serviced (be it electronics or otherwise), they say that "it has gone in
for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I could relate to that. 2 of the switches had a liberal coating of a thick, greasy substance, and the RF board had a coating of what appears
to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited measurements because the way it's mounted, and access to the track side
of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced

and with excitement put it together. I improved the output on 21 MHz considerably, but still not much happening on 18.
If you study the circuit, you will wonder how this capacitor could have
an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone
nearly short. It measured 30uH with a large D factor. The original value
is 470uH.
Needless to say, I was very excited to have found it long last. I put it
all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a
good outcome.
I have learned a lot from this repair. One of them is that the circuit

from Kenwood has mistakes in it. One that led me on the wrong path for

some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem
from all the symptoms it gave and I would have never guessed the
faulty
components. When you check everything methodically and logically over
and over and over again and it still dont work, you know your in a bit

of trouble.
So in the end, finding the problem, was it a fluke, lucky maybe? I
dont
know. What I did learn, was to make no assumptions, lots of patience,
be
tenacious, dont doubt what you have learned in the past, how the
circuit
works and I can go on. I feel great about it and someone more
experienced may have done it in a tenth of my time, but you can never
put a price on what you learn. I am sure the owner of the rig will be
very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you

readers that may develop this fault later on in the rigs life, you
will
save some time repairing it and get it back on air asap.
73 from down under

Joan VK5KYO

vk5kyo wrote:

> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>

> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments
>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

>

>---
-

>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.19/231 - Release Date:
16/01/2006
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
Icom ham radio Yaesu ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6659. Dg-5 Hookup

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 04:03:13 UTC
From: naaah2001
Topic: 6659 Message: 6659

Hello All-
I will be recieving a DG-5 display for my TS-520se.
I do not expect that I will be recieving the hookup cables.
Could anyone tell me the procedure for wiring the unit to the
tranciever.
Will I be abled to fabricate the needed cables?
Also I have a TS 520 and TS 820.
Might this display be retro-fitted to be used on either of these?
(Just wondering)
Hopfully someone can help me or point me in the right direction!
Thanks To All!
Norm
KB1MAA

6660. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 05:19:51 UTC
From: Stephen Davis
Topic: 6457 Message: 6660

Hello All,

Update on my problematic TS-820S with no plate current reading and no bias reading. I have been pretty busy the last week so haven't had time to do much, however this weekend I will be able to spend some time on it. Seeking any and all advice on what to try next. I have the schematics, but translating that into useful troubleshooting information is not going so well. Maybe in a couple of years if I keep at it!! In the meantime, I have picked up some basic electronics books and an old book titled "How to Troubleshoot and Repair Amateur Radio Equipment". Now if I could just get a mind meld with the author!!

To recap the steps taken so far (Thanks to Walt for suggesting these!):

Checked the cathode resistors - tested OK
Checked the plate chokes for short - tested OK
Checked the relay on the relay board - contacts clean and I can see the relay work when I go from receive to send.
Checked the SG switch - OK
Filaments light in all three tubes.
Substituted all three tubes, no change in symptoms.
I took the following measurements at the bias pot.

Bias pot fully counterclockwise: left terminal -95v center terminal -105v right terminal -105v
Bias pot centered: left terminal -95v center terminal -95v right terminal -105v
Bias pot fully clockwise left terminal -95v center terminal -95v right terminal -105v

Note to Walt - I have the 1 watt 100kohm resistors that you suggested I pick up. Not sure what you wanted me to try with them.

Once again, I really appreciate all the suggestions and encouragement I have received so far from this group.

Steve K7QHU

From: Stephen Davis [mailto:sdavis@...]
Sent: Sunday, January 29, 2006 11:52 AM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Walt,

Your first paragraph is correct.

I took the following measurements at the bias pot.

Bias pot fully counterclockwise: left terminal -95v center terminal -105v right terminal -105v
Bias pot centered: left terminal -95v center terminal -95v right terminal -105v
Bias pot fully clockwise left terminal -95v center terminal -95v right terminal -105v

I took measurments with mode set to lsb, band set to 40 meters, mike gain down and with the send receive switch in the send position. All other controls set per the table in the manual for initial transmit tuning.

I am on the way to Radio Shack to pick up the resistors.

Thanks

Steve

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Sunday, January 29, 2006 5:32 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

I am assuming the following. If I an wrong, please tell me.

With the rig keyed in SSB, mike gain down, meter in the IP position, no matter where you adjust the bias pot on the back of the rig you get no IP reading?

Assuming the above, with the rig keyed and set as above, Measure the voltage to ground on the terminal on each end of the Bias pot. Then place the meter on the center terminal and see if the voltage changes as you rotate this control. Give me readings with this full CCW, fully CW and center.

Unless you read 0 voltage on the center of the Bias pot in all positions, go to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when you have done this.

Vy 73, Walt.

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 9:33 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> Update on my problem with my TS-820S radio. Still no transmit on the
> radio. The symptom remains the same, that is unable to get any bias reading

> when trying to tune the rig (if I switch meter to hf position I do get a
> reading of about 850v). Thanks to Walt, these are the things tried so far
> in troubleshooting the radio:
>
> Checked the cathode resistors (ok).
> Checked Plate chokes for short (ok)
> Checked relay on relay board (ok, or I should say contacts are clean
> and relay moves when I switch from rec to send)
> Checked SG switch (ok)
> Filaments light in all three tubes.
> Substituted all three tubes, no change in symptoms.
>
> Any thoughts on the next steps I should take to troubleshoot this
would
> be appreciated. I really would like to get this rig on the air!
>
> Thanks
>
> Steve - K7QHU
>
> _____
>
> From: Stephen Davis [mailto:sdavis@...]
> Sent: Thursday, January 19, 2006 8:43 PM
> To: 'TS-520_820_530_830@yahoogroups.com'
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> Hi Walt,
>
> You are correct, I am not getting any idle current. All tube
filaments
> are lit. I tried rotating the bias control in the back and keying the
send
> switch as suggested. I did not notice excessive heating at either end of
> the rotation.
>
> I have removed the relay housing (Omron type MH4P) from the relay
> board, but having trouble getting the plastic cover off. I am being very
> gentle so as not to break it, but not haveing much success. Will continue
> to try. In the meantime, just eyeballing the contacts, the contacts that
> are in the open position look very clean. I was looking a the schematic
(a
> somewhat fuzzy copy) to try and determine what voltage is used across the
> coil to open/close the relay, but I could not tell. I was thinking this
> could be a way to test to make sure at least the relay(s) are opening and
> closing. If I can determine the voltage, is this a legitimate test? I
also
> measured the resistance across the coil and it was around 380 ohms, which
is

> the resistance stamped on it, so at least I know the coil is not open or
> shorted.
>
> I will keep trying to get the plastic case off so I can actually
clean
> the contacts. Just wanted to update you on my progress.
>
> Thanks
>
> Steve
> K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Thursday, January 19, 2006 12:42 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> That would indicate that you are not getting drive. And if I understand
> correctly you are also not getting any idle current. You do not need
drive
> to get idle current.
>
> Let's double check this. Mode on USB or LSB, all tubes installed, SG on
mike
> gain down, Filament switch on, Meter in IP. Key rig with send switch and
> watch the IP meter as you change the Bias control in the back. At one
> extreme the tubes should draw a lot of current. At the other extreme the
> tubes will draw little or no current. Do you get a reading on the meter
in
> any bias position. If you do it should be set for 60 MA.
>
> If you do not get a reading, do you notice a lot of heat coming from the
> final area with the bias control at one extreme or the other? If the bias
> was working but the meter was not, the tubes would get very hot while in
> transmit with the bias control at one extreme but not the other. If they
do
> get very hot, unkey so you do not damage the tubes.
>
> Now, check again that all tubes filaments are lighted including the 12BY7.
> Check this out in a dark room. Be careful and don't fumble into the high
> voltage!
>
> If you get no idle current, no excess heat that changes with the bias
> control, and all tubes are lighted, next try removing the relays and
> inspecting the contacts. Look for burned contacts. Clean them. Remove only
1

> relay at a time, as they are not the same although they look alike.
>
> Now I may be making a fool of myself suggesting the relays, but in the
> limited time I had this afternoon, and with the very poor diagram I have,
it
> seemed that the power source for the bias goes through Q5 on the RF board
> and comes to Q5 through a relay. I did not have the time to check this
out
> thoroughly at this time, but it might be worth checking the relays. We are
> looking for a contact that is not conducting on transmit. Be careful when
> removing the covers on these relays, they are not available any more.
>
>
> Tell us what you find out and I will try to get a better diagram. I have
> one on hard copy, but it is not here.
>
> BTW, the rig should operate with the CW key unpluged.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, January 18, 2006 7:49 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hi Walt,
> >
> > Following your latest instructions, here are the results:
> >
> > 1. Both plate chokes show 0 ohms when measured as you described.
> >
> > 2. Putting black lead to top of choke and red lead to ground, it shows a
> low
> > resistance to start with, then builds to a high resistance (about 400k).
> >
> > 3 Putting the red lead to the top of the choke and the black lead to
> ground,
> > it shows a resistance of about 400k. (somehow I must of goofed up my
> > original measurement).
> >
> > 4. I hooked up the dummy load, heater switch on, set the SG switch to
off,
> > meter to ALC, carrier fully clockwise. Toggled rec/send switch to send
> and
> > held down the cw key while adjusting the drive control through-out its
> > range. No movement of the meter.

> >
> > 5. My voltmeter has a 1000 VDC plug position for the red lead and on the
> > selector switch there is a 250/1000 vdc position. I would be extremely
> > cautious making any high voltage measurements.
> >
> > Thanks again for your help. It would really be neat if we can actually
> > solve this problem!
> >
> > 73
> >
> > Steve K7QHU
> >

[Non-text portions of this message have been removed]

6661. RES: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 11:12:34 UTC
From: PY2FWA
Topic: 6457 Message: 6661

Verify the R6 (470 Ohms) in the Rectifier Unit.....Verify all voltage on this unit.

73

Alvaro
Py2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Stephen Davis
Enviada em: quarta-feira, 8 de fevereiro de 2006 03:20
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hello All,

Update on my problematic TS-820S with no plate current reading and no bias reading. I have been pretty busy the last week so haven't had time to do much, however this weekend I will be able to spend some time on it. Seeking any and all advice on what to try next. I have the schematics, but translating that into useful troubleshooting information is not going so well. Maybe in a couple of years if I keep at it!! In the meantime, I have picked up some basic electronics books and an old book titled "How to Troubleshoot and Repair Amateur Radio Equipment". Now if I could just get a mind meld with the author!!

To recap the steps taken so far (Thanks to Walt for suggesting these!):

Checked the cathode resistors - tested OK
Checked the plate chokes for short - tested OK
Checked the relay on the relay board - contacts clean and I can see the relay work when I go from receive to send.
Checked the SG switch - OK
Filaments light in all three tubes.
Substituted all three tubes, no change in symptoms.
I took the following measurements at the bias pot.

Bias pot fully counterclockwise: left terminal -95v center terminal -105v right terminal -105v

Bias pot centered: left terminal -95v center terminal -95v
right
terminal -105v
Bias pot fully clockwise left terminal -95v center terminal
-95v
right terminal -105v

Note to Walt - I have the 1 watt 100kohm resistors that you suggested I
pick
up. Not sure what you wanted me to try with them.

Once again, I really appreciate all the suggestions and encouragement I
have
received so far from this group.

Steve K7QHU

_____

From: Stephen Davis [mailto:sdavis@...]
Sent: Sunday, January 29, 2006 11:52 AM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Walt,

Your first paragraph is correct.

I took the following measurements at the bias pot.

Bias pot fully counterclockwise: left terminal -95v center
terminal
-105v right terminal -105v
Bias pot centered: left terminal -95v center terminal -95v
right
terminal -105v
Bias pot fully clockwise left terminal -95v center terminal
-95v
right terminal -105v

I took measurments with mode set to lsb, band set to 40 meters,
mike
gain down and with the send receive switch in the send position. All
other
controls set per the table in the manual for initial transmit tuning.

I am on the way to Radio Shack to pick up the resistors.

Thanks

Steve

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Sunday, January 29, 2006 5:32 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

I am assuming the following. If I an wrong, please tell me.

With the rig keyed in SSB, mike gain down, meter in the IP position, no matter where you adjust the bias pot on the back of the rig you get no IP
reading?

Assuming the above, with the rig keyed and set as above, Measure the voltage
to ground on the terminal on each end of the Bias pot. Then place the meter
on the center terminal and see if the voltage changes as you rotate this control. Give me readings with this full CCW, fully CW and center.

Unless you read 0 voltage on the center of the Bias pot in all positions, go
to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when you
have done this.

Vy 73, Walt.

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, January 28, 2006 9:33 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> Update on my problem with my TS-820S radio. Still no transmit on the
> radio. The symptom remains the same, that is unable to get any bias reading
> when trying to tune the rig (if I switch meter to hf position I do get a
> reading of about 850v). Thanks to Walt, these are the things tried so far
> in troubleshooting the radio:
>
> Checked the cathode resistors (ok).
> Checked Plate chokes for short (ok)
> Checked relay on relay board (ok, or I should say contacts are clean
> and relay moves when I switch from rec to send)
> Checked SG switch (ok)
> Filaments light in all three tubes.

> Substituted all three tubes, no change in symptoms.
>
> Any thoughts on the next steps I should take to troubleshoot this
would
> be appreciated. I really would like to get this rig on the air!
>
> Thanks
>
> Steve - K7QHU
>
> _____
>
> From: Stephen Davis [mailto:sdavis@...]
> Sent: Thursday, January 19, 2006 8:43 PM
> To: 'TS-520_820_530_830@yahoogroups.com'
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
> Hi Walt,
>
> You are correct, I am not getting any idle current. All tube
filaments
> are lit. I tried rotating the bias control in the back and keying the
send
> switch as suggested. I did not notice excessive heating at either end
of
> the rotation.
>
> I have removed the relay housing (Omron type MH4P) from the relay
> board, but having trouble getting the plastic cover off. I am being
very
> gentle so as not to break it, but not haveing much success. Will
continue
> to try. In the meantime, just eyeballing the contacts, the contacts
that
> are in the open position look very clean. I was looking a the
schematic
(a
> somewhat fuzzy copy) to try and determine what voltage is used across
the
> coil to open/close the relay, but I could not tell. I was thinking
this
> could be a way to test to make sure at least the relay(s) are opening
and
> closing. If I can determine the voltage, is this a legitimate test?
I
also
> measured the resistance across the coil and it was around 380 ohms,
which

is
> the resistance stamped on it, so at least I know the coil is not open
or
> shorted.
>
> I will keep trying to get the plastic case off so I can actually
clean
> the contacts. Just wanted to update you on my progress.
>
> Thanks
>
> Steve
> K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Thursday, January 19, 2006 12:42 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
> That would indicate that you are not getting drive. And if I
understand
> correctly you are also not getting any idle current. You do not need
drive
> to get idle current.
>
> Let's double check this. Mode on USB or LSB, all tubes installed, SG
on
mike
> gain down, Filament switch on, Meter in IP. Key rig with send switch
and
> watch the IP meter as you change the Bias control in the back. At one
> extreme the tubes should draw a lot of current. At the other extreme
the
> tubes will draw little or no current. Do you get a reading on the
meter
in
> any bias position. If you do it should be set for 60 MA.
>
> If you do not get a reading, do you notice a lot of heat coming from
the
> final area with the bias control at one extreme or the other? If the
bias
> was working but the meter was not, the tubes would get very hot while
in
> transmit with the bias control at one extreme but not the other. If

they
do
> get very hot, unkey so you do not damage the tubes.
>
> Now, check again that all tubes filaments are lighted including the
12BY7.
> Check this out in a dark room. Be careful and don't fumble into the
high
> voltage!
>
> If you get no idle current, no excess heat that changes with the bias
> control, and all tubes are lighted, next try removing the relays and
> inspecting the contacts. Look for burned contacts. Clean them. Remove
only
1
> relay at a time, as they are not the same although they look alike.
>
> Now I may be making a fool of myself suggesting the relays, but in the
> limited time I had this afternoon, and with the very poor diagram I
have,
it
> seemed that the power source for the bias goes through Q5 on the RF
board
> and comes to Q5 through a relay. I did not have the time to check
this
out
> thoroughly at this time, but it might be worth checking the relays. We
are
> looking for a contact that is not conducting on transmit. Be careful
when
> removing the covers on these relays, they are not available any more.
>
>
> Tell us what you find out and I will try to get a better diagram. I
have
> one on hard copy, but it is not here.
>
> BTW, the rig should operate with the CW key unpluged.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, January 18, 2006 7:49 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>

>
> > Hi Walt,
> >
> > Following your latest instructions, here are the results:
> >
> > 1. Both plate chokes show 0 ohms when measured as you described.
> >
> > 2. Putting black lead to top of choke and red lead to ground, it
shows a
> low
> > resistance to start with, then builds to a high resistance (about
400k).
> >
> > 3 Putting the red lead to the top of the choke and the black lead to
> ground,
> > it shows a resistance of about 400k. (somehow I must of goofed up
my
> > original measurement).
> >
> > 4. I hooked up the dummy load, heater switch on, set the SG switch
to
off,
> > meter to ALC, carrier fully clockwise. Toggled rec/send switch to
send
> and
> > held down the cw key while adjusting the drive control through-out
its
> > range. No movement of the meter.
> >
> > 5. My voltmeter has a 1000 VDC plug position for the red lead and on
the
> > selector switch there is a 250/1000 vdc position. I would be
extremely
> > cautious making any high voltage measurements.
> >
> > Thanks again for your help. It would really be neat if we can
actually
> > solve this problem!
> >
> > 73
> >
> > Steve K7QHU
> >

[Non-text portions of this message have been removed]

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=

101&.sig=NStjWgsFtXmQaGrYd1LT5w> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&
s=101&.sig=RIfve-PXBTtOVJV48uzEVQ> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham
+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA> and craft supply

Icom
<http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craf
t+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c
=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w> ham radio
Yaesu
<http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Cra
ft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&
c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w> ham radio

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6662. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 12:47:59 UTC
From: Walt Breining
Topic: 6457 Message: 6662

With the rig turned off and the high voltage discharged, solder the 100 k resistors in series and solder one end of this string to the top of the plate choke (where the tube plates connect.) connect the other end to ground on the final cage. You can use a screw from the final cover and screw it down there. Leave the tubes in. Connect your + voltmeter lead one resistor up from ground and the voltmeter - lead to chassis Ground. Set your voltmeter to a scale that will read about 300 VDC. Do not hold the voltmeter or volt meter leads while doing this. Turn the power and filaments on, quickly note the meter reading, and turn the power off if the resistors start getting hot. If they do not, wait long enough for the filaments to warm up and see if you still get voltage. Discharge the High Voltage before you touch anything.

Actually, I should have told you to get 450 K ohm resistors as I have them running at about 2 watts here but that will be OK. Just turn the power on, get the reading, and turn the power off.

You should get something around 260v DC. this should be here as soon as you turn the power on. It could drop to 0 as the tubes warm up if there is a problem. If you read 0 volts after the first 10 seconds, do not even wait for the filaments to warm up, go ahead and kill the power to save the resistors.

This is very ball park. What we are trying to determine is whether high voltage is getting to the top of the plate choke. This forms a voltage / by 3 voltage divider so this test is not as dangerous as you will not have the full 800v on the volt meter or leads. The plate voltage will have to be way low or 0 to be the cause of no bias current.

The resistors will probably get hot and smell rather quickly. Be sure after you turn the power off to discharge everything before making contact with these components.

Let us know what you find out and we can go on from there.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, February 08, 2006 12:19 AM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello All,
>
> Update on my problematic TS-820S with no plate current reading and
no

> bias reading. I have been pretty busy the last week so haven't had time
to
> do much, however this weekend I will be able to spend some time on it.
> Seeking any and all advice on what to try next. I have the schematics,
but
> translating that into useful troubleshooting information is not going so
> well. Maybe in a couple of years if I keep at it!! In the meantime, I
have
> picked up some basic electronics books and an old book titled "How to
> Troubleshoot and Repair Amateur Radio Equipment". Now if I could just get
a
> mind meld with the author!!
>
> To recap the steps taken so far (Thanks to Walt for suggesting
these!):
>
> Checked the cathode resistors - tested OK
> Checked the plate chokes for short - tested OK
> Checked the relay on the relay board - contacts clean and I can see the
> relay work when I go from receive to send.
> Checked the SG switch - OK
> Filaments light in all three tubes.
> Substituted all three tubes, no change in symptoms.
> I took the following measurements at the bias pot.
>
> Bias pot fully counterclockwise: left terminal -95v center terminal
> -105v right terminal -105v
> Bias pot centered: left terminal -95v center terminal -95v right
> terminal -105v
> Bias pot fully clockwise left terminal -95v center terminal -95v
> right terminal -105v
>
> Note to Walt - I have the 1 watt 100kohm resistors that you suggested I
pick
> up. Not sure what you wanted me to try with them.
>
> Once again, I really appreciate all the suggestions and encouragement I
have
> received so far from this group.
>
> Steve K7QHU
> _____
>
> From: Stephen Davis [mailto:sdavis@...]
> Sent: Sunday, January 29, 2006 11:52 AM
> To: 'TS-520_820_530_830@yahoogroups.com'
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> Hi Walt,

>
> Your first paragraph is correct.
>
> I took the following measurements at the bias pot.
>
> Bias pot fully counterclockwise: left terminal -95v center terminal
> -105v right terminal -105v
> Bias pot centered: left terminal -95v center terminal -95v right
> terminal -105v
> Bias pot fully clockwise left terminal -95v center terminal -95v
> right terminal -105v
>
> I took measurments with mode set to lsb, band set to 40 meters, mike
> gain down and with the send receive switch in the send position. All
other
> controls set per the table in the manual for initial transmit tuning.
>
> I am on the way to Radio Shack to pick up the resistors.
>
> Thanks
>
> Steve
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Sunday, January 29, 2006 5:32 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> I am assuming the following. If I an wrong, please tell me.
>
> With the rig keyed in SSB, mike gain down, meter in the IP position, no
> matter where you adjust the bias pot on the back of the rig you get no IP
> reading?
>
> Assuming the above, with the rig keyed and set as above, Measure the
voltage
> to ground on the terminal on each end of the Bias pot. Then place the
meter
> on the center terminal and see if the voltage changes as you rotate this
> control. Give me readings with this full CCW, fully CW and center.
>
> Unless you read 0 voltage on the center of the Bias pot in all positions,
go
> to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when
you
> have done this.

>
> Vy 73, Walt.
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, January 28, 2006 9:33 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello All,
> >
> > Update on my problem with my TS-820S radio. Still no transmit on
the
> > radio. The symptom remains the same, that is unable to get any bias
> reading
> > when trying to tune the rig (if I switch meter to hf position I do get a
> > reading of about 850v). Thanks to Walt, these are the things tried so
far
> > in troubleshooting the radio:
> >
> > Checked the cathode resistors (ok).
> > Checked Plate chokes for short (ok)
> > Checked relay on relay board (ok, or I should say contacts are
clean
> > and relay moves when I switch from rec to send)
> > Checked SG switch (ok)
> > Filaments light in all three tubes.
> > Substituted all three tubes, no change in symptoms.
> >
> > Any thoughts on the next steps I should take to troubleshoot this
> would
> > be appreciated. I really would like to get this rig on the air!
> >
> > Thanks
> >
> > Steve - K7QHU
> >
> > _____
> >
> > From: Stephen Davis [mailto:sdavis@...]
> > Sent: Thursday, January 19, 2006 8:43 PM
> > To: 'TS-520_820_530_830@yahoogroups.com'
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > Hi Walt,
> >
> > You are correct, I am not getting any idle current. All tube

> filaments
> > are lit. I tried rotating the bias control in the back and keying the
> send
> > switch as suggested. I did not notice excessive heating at either end
of
> > the rotation.
> >
> > I have removed the relay housing (Omron type MH4P) from the relay
> > board, but having trouble getting the plastic cover off. I am being
very
> > gentle so as not to break it, but not haveing much success. Will
continue
> > to try. In the meantime, just eyeballing the contacts, the contacts
that
> > are in the open position look very clean. I was looking a the schematic
> (a
> > somewhat fuzzy copy) to try and determine what voltage is used across
the
> > coil to open/close the relay, but I could not tell. I was thinking this
> > could be a way to test to make sure at least the relay(s) are opening
and
> > closing. If I can determine the voltage, is this a legitimate test? I
> also
> > measured the resistance across the coil and it was around 380 ohms,
which
> is
> > the resistance stamped on it, so at least I know the coil is not open or
> > shorted.
> >
> > I will keep trying to get the plastic case off so I can actually
> clean
> > the contacts. Just wanted to update you on my progress.
> >
> > Thanks
> >
> > Steve
> > K7QHU
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > Sent: Thursday, January 19, 2006 12:42 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > That would indicate that you are not getting drive. And if I understand
> > correctly you are also not getting any idle current. You do not need
> drive

> > to get idle current.
> >
> > Let's double check this. Mode on USB or LSB, all tubes installed, SG on
> mike
> > gain down, Filament switch on, Meter in IP. Key rig with send switch and
> > watch the IP meter as you change the Bias control in the back. At one
> > extreme the tubes should draw a lot of current. At the other extreme the
> > tubes will draw little or no current. Do you get a reading on the meter
> in
> > any bias position. If you do it should be set for 60 MA.
> >
> > If you do not get a reading, do you notice a lot of heat coming from the
> > final area with the bias control at one extreme or the other? If the
bias
> > was working but the meter was not, the tubes would get very hot while in
> > transmit with the bias control at one extreme but not the other. If
they
> do
> > get very hot, unkey so you do not damage the tubes.
> >
> > Now, check again that all tubes filaments are lighted including the
12BY7.
> > Check this out in a dark room. Be careful and don't fumble into the high
> > voltage!
> >
> > If you get no idle current, no excess heat that changes with the bias
> > control, and all tubes are lighted, next try removing the relays and
> > inspecting the contacts. Look for burned contacts. Clean them. Remove
only
> 1
> > relay at a time, as they are not the same although they look alike.
> >
> > Now I may be making a fool of myself suggesting the relays, but in the
> > limited time I had this afternoon, and with the very poor diagram I
have,
> it
> > seemed that the power source for the bias goes through Q5 on the RF
board
> > and comes to Q5 through a relay. I did not have the time to check this
> out
> > thoroughly at this time, but it might be worth checking the relays. We
are
> > looking for a contact that is not conducting on transmit. Be careful
when
> > removing the covers on these relays, they are not available any more.
> >
> >
> > Tell us what you find out and I will try to get a better diagram. I
have
> > one on hard copy, but it is not here.

> >
> > BTW, the rig should operate with the CW key unpluged.
> >
> > Vy 73, Walt N9WB
> >
> >
> >
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, January 18, 2006 7:49 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > > Hi Walt,
> > >
> > > Following your latest instructions, here are the results:
> > >
> > > 1. Both plate chokes show 0 ohms when measured as you described.
> > >
> > > 2. Putting black lead to top of choke and red lead to ground, it shows
a
> > low
> > > resistance to start with, then builds to a high resistance (about
400k).
> > >
> > > 3 Putting the red lead to the top of the choke and the black lead to
> > ground,
> > > it shows a resistance of about 400k. (somehow I must of goofed up my
> > > original measurement).
> > >
> > > 4. I hooked up the dummy load, heater switch on, set the SG switch to
> off,
> > > meter to ALC, carrier fully clockwise. Toggled rec/send switch to
send
> > and
> > > held down the cw key while adjusting the drive control through-out its
> > > range. No movement of the meter.
> > >
> > > 5. My voltmeter has a 1000 VDC plug position for the red lead and on
the
> > > selector switch there is a 250/1000 vdc position. I would be extremely
> > > cautious making any high voltage measurements.
> > >
> > > Thanks again for your help. It would really be neat if we can
actually
> > > solve this problem!
> > >
> > > 73
> > >

> > > Steve K7QHU
> > >
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6663. TS-520 CW FILTER

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 14:36:27 UTC
From: Gary
Topic: 6663 Message: 6663

I am looking for the CW filter for a TS-520S (Part# YG3395C)
Since this filter seems to be somewhat HARD to find, I wonder if anyone
has ever substituted another type filter for this rig??

If you have one, I sure would like to get it from you.

THANKS!!!
Gary - W5GNB

6664. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 14:44:20 UTC
From: Joan de vk5kyo
Topic: 6457 Message: 6664

Hi Steve/Walt

1. This is a long shot but probably worth a mention.
I was sitting on some nos (new old stock) 6146 replacement tubes for some years before I had the opportunity to use them in a TS-520.
The tubes were of RCA brand with the following numbers on them - 6883B/8032A/8552.
These tubes are identical in appearance and performance as the 6146's, except they have 12 Volt filaments.
When I eventually used the tubes I got caught with my TS-520 not having any drive even though I could see some filaments glowing. Just not getting hot enough for emissions.
Suppose Steve bought the radio with a set of these in it, he will never get it going unless he rewires the tubes for 12V heater operation (and then place a big caution sign on the chassis, to remind yourself of the volt changes. You don't want to plug in a brand new set of 6Volt tubes).

2. From my recent repairs to a TS-830, I have made a few observations which may be useful if the 820 circuitry is similar.
a. Bias is independant of drive/ALC. I can de-tune the Drive control without affecting the bias setting.
b. Once the Drive control is peaked for maximum ALC, adjusting the bias pot will change the ALC reading somewhat.
c. You can not get an ALC reading if the 6146's are not installed. (The Anode cap does not have to be connected for an ALC reading though).
d. You can not get a bias reading if SG is switched off.

If I read Steve's comment correct, below, he has more than just a bias problem. He seems to be missing drive also if not getting any ALC reading.
Does Steve have another receiver to check if the oscillators are running and on frequency?
Does anyone else agree with that?
Have you followed Alvaro Py2FWA advise yet? (That is checking all the volages on the power supply board)

73
Joan VK5KYO

Walt Breining wrote:

> With the rig turned off and the high voltage discharged, solder the 100 k
> resistors in series and solder one end of this string to the top of the
> plate choke (where the tube plates connect.) connect the other end to
> ground on the final cage. You can use a screw from the final cover and
> screw
> it down there. Leave the tubes in. Connect your + voltmeter lead one

> resistor up from ground and the voltmeter - lead to chassis Ground. Set
> your voltmeter to a scale that will read about 300 VDC. Do not hold the
> voltmeter or volt meter leads while doing this. Turn the power and
> filaments
> on, quickly note the meter reading, and turn the power off if the
> resistors
> start getting hot. If they do not, wait long enough for the filaments to
> warm up and see if you still get voltage. Discharge the High Voltage
> before you touch anything.
>
> Actually, I should have told you to get 450 K ohm resistors as I have them
> running at about 2 watts here but that will be OK. Just turn the
> power on,
> get the reading, and turn the power off.
>
> You should get something around 260v DC. this should be here as soon
> as you
> turn the power on. It could drop to 0 as the tubes warm up if there is a
> problem. If you read 0 volts after the first 10 seconds, do not even wait
> for the filaments to warm up, go ahead and kill the power to save the
> resistors.
>
> This is very ball park. What we are trying to determine is whether high
> voltage is getting to the top of the plate choke. This forms a voltage
> / by
> 3 voltage divider so this test is not as dangerous as you will not
> have the
> full 800v on the volt meter or leads. The plate voltage will have to
> be way
> low or 0 to be the cause of no bias current.
>
> The resistors will probably get hot and smell rather quickly. Be sure
> after
> you turn the power off to discharge everything before making contact with
> these components.
>
> Let us know what you find out and we can go on from there.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, February 08, 2006 12:19 AM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello All,

> >
> > Update on my problematic TS-820S with no plate current reading and
> no
> > bias reading. I have been pretty busy the last week so haven't had time
> to
> > do much, however this weekend I will be able to spend some time on it.
> > Seeking any and all advice on what to try next. I have the schematics,
> but
> > translating that into useful troubleshooting information is not going so
> > well. Maybe in a couple of years if I keep at it!! In the meantime, I
> have
> > picked up some basic electronics books and an old book titled "How to
> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> just get
> a
> > mind meld with the author!!
> >
> > To recap the steps taken so far (Thanks to Walt for suggesting
> these!):
> >
> > Checked the cathode resistors - tested OK
> > Checked the plate chokes for short - tested OK
> > Checked the relay on the relay board - contacts clean and I can see the
> > relay work when I go from receive to send.
> > Checked the SG switch - OK
> > Filaments light in all three tubes.
> > Substituted all three tubes, no change in symptoms.
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v
> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal
> -95v
> > right terminal -105v
> >
> > Note to Walt - I have the 1 watt 100kohm resistors that you suggested I
> pick
> > up. Not sure what you wanted me to try with them.
> >
> > Once again, I really appreciate all the suggestions and encouragement I
> have
> > received so far from this group.
> >
> > Steve K7QHU
> > _____
> >

> > From: Stephen Davis [mailto:sdavis@...]
> > Sent: Sunday, January 29, 2006 11:52 AM
> > To: 'TS-520_820_530_830@yahoogroups.com'
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > Hi Walt,
> >
> > Your first paragraph is correct.
> >
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v
> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal
> -95v
> > right terminal -105v
> >
> > I took measurments with mode set to lsb, band set to 40 meters,
> mike
> > gain down and with the send receive switch in the send position. All
> other
> > controls set per the table in the manual for initial transmit tuning.
> >
> > I am on the way to Radio Shack to pick up the resistors.
> >
> > Thanks
> >
> > Steve
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > Sent: Sunday, January 29, 2006 5:32 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > I am assuming the following. If I an wrong, please tell me.
> >
> > With the rig keyed in SSB, mike gain down, meter in the IP position, no
> > matter where you adjust the bias pot on the back of the rig you get
> no IP
> > reading?
> >

> > Assuming the above, with the rig keyed and set as above, Measure the
> voltage
> > to ground on the terminal on each end of the Bias pot. Then place the
> meter
> > on the center terminal and see if the voltage changes as you rotate this
> > control. Give me readings with this full CCW, fully CW and center.
> >
> > Unless you read 0 voltage on the center of the Bias pot in all
> positions,
> go
> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when
> you
> > have done this.
> >
> > Vy 73, Walt.
> >
> >
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 28, 2006 9:33 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> > >
> > >
> > > > Hello All,
> > > >
> > > > Update on my problem with my TS-820S radio. Still no transmit on
> the
> > > > radio. The symptom remains the same, that is unable to get any bias
> > reading
> > > > when trying to tune the rig (if I switch meter to hf position I do
> get a
> > > > reading of about 850v). Thanks to Walt, these are the things tried so
> far
> > > > in troubleshooting the radio:
> > > >
> > > > Checked the cathode resistors (ok).
> > > > Checked Plate chokes for short (ok)
> > > > Checked relay on relay board (ok, or I should say contacts are
> clean
> > > > and relay moves when I switch from rec to send)
> > > > Checked SG switch (ok)
> > > > Filaments light in all three tubes.
> > > > Substituted all three tubes, no change in symptoms.
> > > >
> > > > Any thoughts on the next steps I should take to troubleshoot this
> > would
> > > > be appreciated. I really would like to get this rig on the air!
> > > >
> > > > Thanks

> > >
> > > Steve - K7QHU
> > >
> > > _____
> > >
> > > From: Stephen Davis [mailto:sdavis@...]
> > > Sent: Thursday, January 19, 2006 8:43 PM
> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > Hi Walt,
> > >
> > > You are correct, I am not getting any idle current. All tube
> > filaments
> > > are lit. I tried rotating the bias control in the back and keying the
> > send
> > > switch as suggested. I did not notice excessive heating at either end
> of
> > > the rotation.
> > >
> > > I have removed the relay housing (Omron type MH4P) from the relay
> > > board, but having trouble getting the plastic cover off. I am being
> very
> > > gentle so as not to break it, but not haveing much success. Will
> continue
> > > to try. In the meantime, just eyeballing the contacts, the contacts
> that
> > > are in the open position look very clean. I was looking a the
> schematic
> > (a
> > > somewhat fuzzy copy) to try and determine what voltage is used across
> the
> > > coil to open/close the relay, but I could not tell. I was
> thinking this
> > > could be a way to test to make sure at least the relay(s) are opening
> and
> > > closing. If I can determine the voltage, is this a legitimate
> test? I
> > also
> > > measured the resistance across the coil and it was around 380 ohms,
> which
> > is
> > > the resistance stamped on it, so at least I know the coil is not
> open or
> > > shorted.
> > >
> > > I will keep trying to get the plastic case off so I can actually
> > clean

> > > the contacts. Just wanted to update you on my progress.
> > >
> > > Thanks
> > >
> > > Steve
> > > K7QHU
> > >
> > > _____
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > > Sent: Thursday, January 19, 2006 12:42 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > That would indicate that you are not getting drive. And if I
> understand
> > > correctly you are also not getting any idle current. You do not need
> > drive
> > > to get idle current.
> > >
> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> SG on
> > mike
> > > gain down, Filament switch on, Meter in IP. Key rig with send
> switch and
> > > watch the IP meter as you change the Bias control in the back. At one
> > > extreme the tubes should draw a lot of current. At the other
> extreme the
> > > tubes will draw little or no current. Do you get a reading on the
> meter
> > in
> > > any bias position. If you do it should be set for 60 MA.
> > >
> > > If you do not get a reading, do you notice a lot of heat coming
> from the
> > > final area with the bias control at one extreme or the other? If the
> bias
> > > was working but the meter was not, the tubes would get very hot
> while in
> > > transmit with the bias control at one extreme but not the other. If
> they
> > do
> > > get very hot, unkey so you do not damage the tubes.
> > >
> > > Now, check again that all tubes filaments are lighted including the
> 12BY7.
> > > Check this out in a dark room. Be careful and don't fumble into

> the high
> > > voltage!
> > >
> > > If you get no idle current, no excess heat that changes with the bias
> > > control, and all tubes are lighted, next try removing the relays and
> > > inspecting the contacts. Look for burned contacts. Clean them. Remove
> only
> > 1
> > > relay at a time, as they are not the same although they look alike.
> > >
> > > Now I may be making a fool of myself suggesting the relays, but in the
> > > limited time I had this afternoon, and with the very poor diagram I
> have,
> > it
> > > seemed that the power source for the bias goes through Q5 on the RF
> board
> > > and comes to Q5 through a relay. I did not have the time to check
> this
> > out
> > > thoroughly at this time, but it might be worth checking the relays. We
> are
> > > looking for a contact that is not conducting on transmit. Be careful
> when
> > > removing the covers on these relays, they are not available any more.
> > >
> > >
> > > Tell us what you find out and I will try to get a better diagram. I
> have
> > > one on hard copy, but it is not here.
> > >
> > > BTW, the rig should operate with the CW key unpluged.
> > >
> > > Vy 73, Walt N9WB
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > > Hi Walt,
> > > >
> > > > Following your latest instructions, here are the results:
> > > >
> > > > 1. Both plate chokes show 0 ohms when measured as you described.
> > > >

> > > > 2. Putting black lead to top of choke and red lead to ground, it
> shows
> a
> > > low
> > > > resistance to start with, then builds to a high resistance (about
> 400k).
> > > >
> > > > 3 Putting the red lead to the top of the choke and the black lead to
> > > ground,
> > > > it shows a resistance of about 400k. (somehow I must of goofed
> up my
> > > > original measurement).
> > > >
> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> switch to
> > off,
> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch to
> send
> > > and
> > > > held down the cw key while adjusting the drive control
> through-out its
> > > > range. No movement of the meter.
> > > >
> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead and on
> the
> > > > selector switch there is a 250/1000 vdc position. I would be
> extremely
> > > > cautious making any high voltage measurements.
> > > >
> > > > Thanks again for your help. It would really be neat if we can
> actually
> > > > solve this problem!
> > > >
> > > > 73
> > > >
> > > > Steve K7QHU
> > > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >

> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> ~-->
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ~-->
>
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date: 7/02/2006
>
>

6665. RE: [TS-520_820_530_830] Dg-5 Hookup

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 14:47:25 UTC
From: Glenn Crawford
Topic: 6659 Message: 6665

Hi Norm, Common good quality audio/video patch cords with RCA phono plugs on each end will work for the three ?signal? cables. The power cable is a little different. If you can find two Remington electric shaver chords, cut off and discard the 120-volt plugs. Solder the two pieces together so there is a shaver plug on each end. The saver plugs make a near perfect fit to both the radio and the display. You may need to use a utility knife to cut a ?V? shaped notch in the plugs. Do not depend on the notch to force the correct polarity. Put a spot of red paint on the positive side of each plug and be very careful when connecting the two devices. You can make a power cord out of a piece of two-conductor (red/black) DC cable with proper sized female butt connectors on each end. Just be sure to observe proper polarity when connecting. I acquired a DG-5 display for my TS-520se with no cables and this approach has worked well for me. 73, Glenn W8EXX --- On Tue 02/07, naaah2001 < naaah2001@... > wrote: From: naaah2001 [mailto: naaah2001@...] To: TS-520_820_530_830@yahoogroups.com Date: Wed, 08 Feb 2006 04:03:13 -0000 Subject: [TS-520_820_530_830] Dg-5 Hookup Hello All-
I will be recieving a DG-5 display for my TS-520se.
I do not expect that I will be recieving the hookup cables.
Could anyone tell me the procedure for wiring the unit to the
tranciever.
Will I be abled to fabricate the needed cables?
Also I have a TS 520 and TS 820.
Might this display be retro-fitted to be used on either of these?
(Just wondering)
Hopfully someone can help me or point me in the right direction!
Thanks To All!
Norm
KB1MAA

SPONSORED LINKS

Ham radio (http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=NStjWgsFtXmQaGrYd1LT5w)

Craft hobby (http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=RIfve-PXBTtOVJV48uzEVQ)

Hobby and craft supply (http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=Qz1juq9z5gSL9A5AR8aLNA)

Icom ham radio (http://groups.yahoo.com/gads?t=ms&k=Icom+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=_InABMy_m6lCJHFiWobT2w)

Yaesu ham radio (http://groups.yahoo.com/gads?t=ms&k=Yaesu+ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&w4=Icom+ham+radio&w5=Yaesu+ham+radio&c=5&s=101&.sig=9lSLfMHwXV-vjTYO4qyD8w)

YAHOO! GROUPS LINKS

- ?Visit your group "TS-520_820_530_830 (http://groups.yahoo.com/group/TS-520_820_530_830)" on the web.
?
- ?To unsubscribe from this group, send an email to: ?TS-520_820_530_830-unsubscribe@yahoogroups.com
?
- ?Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service (http://docs.yahoo.com/info/terms/).

_____ Join Excite! - http://www.excite.com The most personalized portal on the Web!

6666. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-08 22:11:29 UTC
From: Stephen Davis
Topic: 6457 Message: 6666

All,

Thanks to all for the suggestions. I will be rolling up my sleeves, putting both hands in my pockets (safety first!) and tackle all the troubleshooting ideas you have given me. I will report back as I make progress. Thanks again.

Steve

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
Sent: Wednesday, February 08, 2006 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Steve/Walt

1. This is a long shot but probably worth a mention.
I was sitting on some nos (new old stock) 6146 replacement tubes for some years before I had the opportunity to use them in a TS-520.
The tubes were of RCA brand with the following numbers on them - 6883B/8032A/8552.
These tubes are identical in appearance and performance as the 6146's, except they have 12 Volt filaments.
When I eventually used the tubes I got caught with my TS-520 not having any drive even though I could see some filaments glowing. Just not getting hot enough for emissions.
Suppose Steve bought the radio with a set of these in it, he will never get it going unless he rewires the tubes for 12V heater operation (and then place a big caution sign on the chassis, to remind yourself of the volt changes. You don't want to plug in a brand new set of 6Volt tubes).

2. From my recent repairs to a TS-830, I have made a few observations which may be useful if the 820 circuitry is similar.
a. Bias is independant of drive/ALC. I can de-tune the Drive control without affecting the bias setting.
b. Once the Drive control is peaked for maximum ALC, adjusting the bias pot will change the ALC reading somewhat.
c. You can not get an ALC reading if the 6146's are not installed. (The Anode cap does not have to be connected for an ALC reading though).
d. You can not get a bias reading if SG is switched off.

If I read Steve's comment correct, below, he has more than just a bias problem. He seems to be missing drive also if not getting any ALC reading.
Does Steve have another receiver to check if the oscillators are running

and on frequency?
Does anyone else agree with that?
Have you followed Alvaro Py2FWA advise yet? (That is checking all the
volages on the power supply board)

73
Joan VK5KYO

Walt Breining wrote:

> With the rig turned off and the high voltage discharged, solder the 100 k
> resistors in series and solder one end of this string to the top of the
> plate choke (where the tube plates connect.) connect the other end to
> ground on the final cage. You can use a screw from the final cover and
> screw
> it down there. Leave the tubes in. Connect your + voltmeter lead one
> resistor up from ground and the voltmeter - lead to chassis Ground. Set
> your voltmeter to a scale that will read about 300 VDC. Do not hold the
> voltmeter or volt meter leads while doing this. Turn the power and
> filaments
> on, quickly note the meter reading, and turn the power off if the
> resistors
> start getting hot. If they do not, wait long enough for the filaments to
> warm up and see if you still get voltage. Discharge the High Voltage
> before you touch anything.
>
> Actually, I should have told you to get 450 K ohm resistors as I have them
> running at about 2 watts here but that will be OK. Just turn the
> power on,
> get the reading, and turn the power off.
>
> You should get something around 260v DC. this should be here as soon
> as you
> turn the power on. It could drop to 0 as the tubes warm up if there is a
> problem. If you read 0 volts after the first 10 seconds, do not even wait
> for the filaments to warm up, go ahead and kill the power to save the
> resistors.
>
> This is very ball park. What we are trying to determine is whether high
> voltage is getting to the top of the plate choke. This forms a voltage
> / by
> 3 voltage divider so this test is not as dangerous as you will not
> have the
> full 800v on the volt meter or leads. The plate voltage will have to
> be way
> low or 0 to be the cause of no bias current.
>
> The resistors will probably get hot and smell rather quickly. Be sure
> after
> you turn the power off to discharge everything before making contact with
> these components.

>
> Let us know what you find out and we can go on from there.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, February 08, 2006 12:19 AM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello All,
> >
> > Update on my problematic TS-820S with no plate current reading and
> no
> > bias reading. I have been pretty busy the last week so haven't had time
> to
> > do much, however this weekend I will be able to spend some time on it.
> > Seeking any and all advice on what to try next. I have the schematics,
> but
> > translating that into useful troubleshooting information is not going so
> > well. Maybe in a couple of years if I keep at it!! In the meantime, I
> have
> > picked up some basic electronics books and an old book titled "How to
> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> just get
> a
> > mind meld with the author!!
> >
> > To recap the steps taken so far (Thanks to Walt for suggesting
> these!):
> >
> > Checked the cathode resistors - tested OK
> > Checked the plate chokes for short - tested OK
> > Checked the relay on the relay board - contacts clean and I can see the
> > relay work when I go from receive to send.
> > Checked the SG switch - OK
> > Filaments light in all three tubes.
> > Substituted all three tubes, no change in symptoms.
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v
> right
> > terminal -105v

> > Bias pot fully clockwise left terminal -95v center terminal
> -95v
> > right terminal -105v
> >
> > Note to Walt - I have the 1 watt 100kohm resistors that you suggested I
> pick
> > up. Not sure what you wanted me to try with them.
> >
> > Once again, I really appreciate all the suggestions and encouragement I
> have
> > received so far from this group.
> >
> > Steve K7QHU
> > _____
> >
> > From: Stephen Davis [mailto:sdavis@...]
> > Sent: Sunday, January 29, 2006 11:52 AM
> > To: 'TS-520_820_530_830@yahoogroups.com'
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > Hi Walt,
> >
> > Your first paragraph is correct.
> >
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v
> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal
> -95v
> > right terminal -105v
> >
> > I took measurments with mode set to lsb, band set to 40 meters,
> mike
> > gain down and with the send receive switch in the send position. All
> other
> > controls set per the table in the manual for initial transmit tuning.
> >
> > I am on the way to Radio Shack to pick up the resistors.
> >
> > Thanks
> >
> > Steve
> >
> > _____

> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > Sent: Sunday, January 29, 2006 5:32 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > I am assuming the following. If I an wrong, please tell me.
> >
> > With the rig keyed in SSB, mike gain down, meter in the IP position, no
> > matter where you adjust the bias pot on the back of the rig you get
> no IP
> > reading?
> >
> > Assuming the above, with the rig keyed and set as above, Measure the
> voltage
> > to ground on the terminal on each end of the Bias pot. Then place the
> meter
> > on the center terminal and see if the voltage changes as you rotate this
> > control. Give me readings with this full CCW, fully CW and center.
> >
> > Unless you read 0 voltage on the center of the Bias pot in all
> positions,
> go
> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when
> you
> > have done this.
> >
> > Vy 73, Walt.
> >
> >
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 28, 2006 9:33 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> > >
> > >
> > > > Hello All,
> > > >
> > > > Update on my problem with my TS-820S radio. Still no transmit on
> the
> > > > radio. The symptom remains the same, that is unable to get any bias
> > reading
> > > > when trying to tune the rig (if I switch meter to hf position I do
> get a
> > > > reading of about 850v). Thanks to Walt, these are the things tried so
> far
> > > > in troubleshooting the radio:

> > >
> > > Checked the cathode resistors (ok).
> > > Checked Plate chokes for short (ok)
> > > Checked relay on relay board (ok, or I should say contacts are
> clean
> > > and relay moves when I switch from rec to send)
> > > Checked SG switch (ok)
> > > Filaments light in all three tubes.
> > > Substituted all three tubes, no change in symptoms.
> > >
> > > Any thoughts on the next steps I should take to troubleshoot this
> > would
> > > be appreciated. I really would like to get this rig on the air!
> > >
> > > Thanks
> > >
> > > Steve - K7QHU
> > >
> > > _____
> > >
> > > From: Stephen Davis [mailto:sdavis@...]
> > > Sent: Thursday, January 19, 2006 8:43 PM
> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > Hi Walt,
> > >
> > > You are correct, I am not getting any idle current. All tube
> > filaments
> > > are lit. I tried rotating the bias control in the back and keying the
> > send
> > > switch as suggested. I did not notice excessive heating at either end
> of
> > > the rotation.
> > >
> > > I have removed the relay housing (Omron type MH4P) from the relay
> > > board, but having trouble getting the plastic cover off. I am being
> very
> > > gentle so as not to break it, but not haveing much success. Will
> continue
> > > to try. In the meantime, just eyeballing the contacts, the contacts
> that
> > > are in the open position look very clean. I was looking a the
> schematic
> > (a
> > > somewhat fuzzy copy) to try and determine what voltage is used across
> the
> > > coil to open/close the relay, but I could not tell. I was

> thinking this
> > > could be a way to test to make sure at least the relay(s) are opening
> and
> > > closing. If I can determine the voltage, is this a legitimate
> test? I
> > also
> > > measured the resistance across the coil and it was around 380 ohms,
> which
> > is
> > > the resistance stamped on it, so at least I know the coil is not
> open or
> > > shorted.
> > >
> > > I will keep trying to get the plastic case off so I can actually
> > clean
> > > the contacts. Just wanted to update you on my progress.
> > >
> > > Thanks
> > >
> > > Steve
> > > K7QHU
> > >
> > > _____
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > > Sent: Thursday, January 19, 2006 12:42 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > That would indicate that you are not getting drive. And if I
> understand
> > > correctly you are also not getting any idle current. You do not need
> > drive
> > > to get idle current.
> > >
> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> SG on
> > mike
> > > gain down, Filament switch on, Meter in IP. Key rig with send
> switch and
> > > watch the IP meter as you change the Bias control in the back. At one
> > > extreme the tubes should draw a lot of current. At the other
> extreme the
> > > tubes will draw little or no current. Do you get a reading on the
> meter
> > in
> > > any bias position. If you do it should be set for 60 MA.

> > >
> > > If you do not get a reading, do you notice a lot of heat coming
> from the
> > > final area with the bias control at one extreme or the other? If the
> bias
> > > was working but the meter was not, the tubes would get very hot
> while in
> > > transmit with the bias control at one extreme but not the other. If
> they
> > do
> > > get very hot, unkey so you do not damage the tubes.
> > >
> > > Now, check again that all tubes filaments are lighted including the
> 12BY7.
> > > Check this out in a dark room. Be careful and don't fumble into
> the high
> > > voltage!
> > >
> > > If you get no idle current, no excess heat that changes with the bias
> > > control, and all tubes are lighted, next try removing the relays and
> > > inspecting the contacts. Look for burned contacts. Clean them. Remove
> only
> > 1
> > > relay at a time, as they are not the same although they look alike.
> > >
> > > Now I may be making a fool of myself suggesting the relays, but in the
> > > limited time I had this afternoon, and with the very poor diagram I
> have,
> > it
> > > seemed that the power source for the bias goes through Q5 on the RF
> board
> > > and comes to Q5 through a relay. I did not have the time to check
> this
> > out
> > > thoroughly at this time, but it might be worth checking the relays. We
> are
> > > looking for a contact that is not conducting on transmit. Be careful
> when
> > > removing the covers on these relays, they are not available any more.
> > >
> > >
> > > Tell us what you find out and I will try to get a better diagram. I
> have
> > > one on hard copy, but it is not here.
> > >
> > > BTW, the rig should operate with the CW key unpluged.
> > >
> > > Vy 73, Walt N9WB
> > >
> > >

> > >
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > > >
> > > >
> > > > Hi Walt,
> > > > >
> > > > Following your latest instructions, here are the results:
> > > > >
> > > > 1. Both plate chokes show 0 ohms when measured as you described.
> > > > >
> > > > 2. Putting black lead to top of choke and red lead to ground, it
> shows
> a
> > > low
> > > > resistance to start with, then builds to a high resistance (about
> 400k).
> > > > >
> > > > 3 Putting the red lead to the top of the choke and the black lead to
> > > ground,
> > > > it shows a resistance of about 400k. (somehow I must of goofed
> up my
> > > > original measurement).
> > > > >
> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> switch to
> > off,
> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch to
> send
> > > and
> > > > held down the cw key while adjusting the drive control
> through-out its
> > > > range. No movement of the meter.
> > > > >
> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead and on
> the
> > > > selector switch there is a 250/1000 vdc position. I would be
> extremely
> > > > cautious making any high voltage measurements.
> > > > >
> > > > Thanks again for your help. It would really be neat if we can
> actually
> > > > solve this problem!
> > > > >
> > > > 73
> > > > >

> > > > Steve K7QHU
> > > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:

> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>
>--
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date: 7/02/2006
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6667. Ts-830 VFO jumps and 9V dc line

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-10 09:20:36 UTC
From: i8vye
Topic: 6667 Message: 6667

If of interest for anybody, those are my experiences.

I have a ts-830 with external dfc-230 vfo. After many years the rig started the classic freqency jumps reported very often on the net.

I first strenghtend all ground screws, enforced ground return on AF-AVR boards, cleaned switches (fix and others) and cleaned the ext vfo plug (including the switch inside the plug). I also cleaned and lubrificated the wiper in the vfo variable capacitor. Bypassed the fix switch.

Everything seemed to be ok, but after few weeks, frequency jumps started again, even if less often.

I found two new, for me, sources of jumps:

1) trimmer cap on vfo unit (TC1), i cleaned it with a dry contact cleaner and rotated the control many times. Now it works, i have already purchased a new trimmer (6 Pf ceramic NP0) easy to find. As son as necessary i'll definitively substitute it. The allignement, after cleaning or substitution is easy and well descripted in the manuals.

2) all switches on 9 Vdc line are prone to instability even if well cleaned. In my case, the switches inside the dfc-230 are absolutely non reliable. You can clean them but first or later they will start giving trouble again. The check is easy: gently touch the switches while listening to a beat with cal on. If you ear frequency moving, one problem is there. All this is due to the fact that the 9Vdc is used as control line and also as supply to the internal vfo unit. So any slight instability on 9Vdc becomes a drift on internal vfo. My solution was to interrupt the 9Vdc to the internal vfo, install a dc regulator (used only for the VFO, a lm317 or 78xx to give 9.0 Vdc stabilized to the vfo.

Then i connected the 9VDc coming form the rig to a 1K resistor driving the base of 2n2222, the emitter to ground the collector to the coil of micro relay (normally open). The other coil of micro relay goes to

the
12Vdc. the normally opens contacts are connected: one to the output
of
the new dc regulator and the other on the remaining wire giving 9Vdc
to
the VFO unit (the one named VFB in the circuits). Now the original
9Vdc
are used only as control line, while there is a regulator devoted
only
to the VFO unit.

This way i didn't listen anylonger any frequency drift while
operating
switches belonging to the ts-830 or belonging to the external vfo.

73's de i8vye/0 (joe).

6668. Re: TS-530S Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-10 21:17:08 UTC
From: n7spy
Topic: 5764 Message: 6668

--- In TS-520_820_530_830@yahoogroups.com, KD5NWA <KD5NWA@...> wrote:
>
> Thanks to Chris the User Manual is at a more permanent location;
>
> < http://www.qrpradio.com/pub/Ham/Radios/Kenwood/ >

Hi:

Thank you Christ for the manual. I've been looking for it like a maniac
all day..

... oh, and hi everyone... new ham in the group here.

Alvin/N7SPY

/leaves to read manual

6669. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 01:48:59 UTC
From: Stephen Davis
Topic: 6457 Message: 6669

Hello Walt/Joan/Alvaro and all,

Walt, I did as you instructed and I measure about 270 volts one resistor up from ground in the voltage divider I constructed. The 270 volts appeared as soon as I switched power on. I left power on for about 10 seconds and the voltage held steady.

Alvaro, I checked R4 on the rectifier board and it was ok. I took a measurement at the point labeled SG (which I assume stands for Screen Grid) and it read -110 volts. The point labeled STB measured 110 volts, the point 210A was about 220 volts, the point 300A was about 300 volts and the point marked -C was -110 volts. Looking at the rectifier board, there are no burned components and it looks pretty clean.

Joan, I have the S2001A's in the rig, so the filament voltage should be okay.

To recap the problem, I get zero LP and zero ALC readings when going thru the tuning procedures. If I switch the meter to the HV position, it reads about 900 volts. Tuning into a dummy load confirms there is no output during the tuning procedure. By the way the radio receiver works great, its just the transmit side that's a little sick.

Thanks again for the help, and I will keep poking around (safely) until I hear from the group.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
Sent: Wednesday, February 08, 2006 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Steve/Walt

1. This is a long shot but probably worth a mention.
I was sitting on some nos (new old stock) 6146 replacement tubes for some years before I had the opportunity to use them in a TS-520.
The tubes were of RCA brand with the following numbers on them - 6883B/8032A/8552.
These tubes are identical in appearance and performance as the 6146's, except they have 12 Volt filaments.
When I eventually used the tubes I got caught with my TS-520 not having any drive even though I could see some filaments glowing. Just not

getting hot enough for emissions.
Suppose Steve bought the radio with a set of these in it, he will never get it going unless he rewires the tubes for 12V heater operation (and then place a big caution sign on the chassis, to remind yourself of the volt changes. You don't want to plug in a brand new set of 6Volt tubes).

2. From my recent repairs to a TS-830, I have made a few observations which may be useful if the 820 circuitry is similar.
a. Bias is independant of drive/ALC. I can de-tune the Drive control without affecting the bias setting.
b. Once the Drive control is peaked for maximum ALC, adjusting the bias pot will change the ALC reading somewhat.
c. You can not get an ALC reading if the 6146's are not installed. (The Anode cap does not have to be connected for an ALC reading though).
d. You can not get a bias reading if SG is switched off.

If I read Steve's comment correct, below, he has more than just a bias problem. He seems to be missing drive also if not getting any ALC reading.
Does Steve have another receiver to check if the oscillators are running and on frequency?
Does anyone else agree with that?
Have you followed Alvaro Py2FWA advise yet? (That is checking all the volages on the power supply board)

73
Joan VK5KYO

Walt Breining wrote:

> With the rig turned off and the high voltage discharged, solder the 100 k
> resistors in series and solder one end of this string to the top of the
> plate choke (where the tube plates connect.) connect the other end to
> ground on the final cage. You can use a screw from the final cover and
> screw
> it down there. Leave the tubes in. Connect your + voltmeter lead one
> resistor up from ground and the voltmeter - lead to chassis Ground. Set
> your voltmeter to a scale that will read about 300 VDC. Do not hold the
> voltmeter or volt meter leads while doing this. Turn the power and
> filaments
> on, quickly note the meter reading, and turn the power off if the
> resistors
> start getting hot. If they do not, wait long enough for the filaments to
> warm up and see if you still get voltage. Discharge the High Voltage
> before you touch anything.
>
> Actually, I should have told you to get 450 K ohm resistors as I have them
> running at about 2 watts here but that will be OK. Just turn the
> power on,
> get the reading, and turn the power off.
>
> You should get something around 260v DC. this should be here as soon

> as you
> turn the power on. It could drop to 0 as the tubes warm up if there is a
> problem. If you read 0 volts after the first 10 seconds, do not even wait
> for the filaments to warm up, go ahead and kill the power to save the
> resistors.
>
> This is very ball park. What we are trying to determine is whether high
> voltage is getting to the top of the plate choke. This forms a voltage
> / by
> 3 voltage divider so this test is not as dangerous as you will not
> have the
> full 800v on the volt meter or leads. The plate voltage will have to
> be way
> low or 0 to be the cause of no bias current.
>
> The resistors will probably get hot and smell rather quickly. Be sure
> after
> you turn the power off to discharge everything before making contact with
> these components.
>
> Let us know what you find out and we can go on from there.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, February 08, 2006 12:19 AM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello All,
> >
> > Update on my problematic TS-820S with no plate current reading and
> no
> > bias reading. I have been pretty busy the last week so haven't had time
> to
> > do much, however this weekend I will be able to spend some time on it.
> > Seeking any and all advice on what to try next. I have the schematics,
> but
> > translating that into useful troubleshooting information is not going so
> > well. Maybe in a couple of years if I keep at it!! In the meantime, I
> have
> > picked up some basic electronics books and an old book titled "How to
> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> just get
> a
> > mind meld with the author!!

> >
> > To recap the steps taken so far (Thanks to Walt for suggesting
> these!):
> >
> > Checked the cathode resistors - tested OK
> > Checked the plate chokes for short - tested OK
> > Checked the relay on the relay board - contacts clean and I can see the
> > relay work when I go from receive to send.
> > Checked the SG switch - OK
> > Filaments light in all three tubes.
> > Substituted all three tubes, no change in symptoms.
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v
> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal
> -95v
> > right terminal -105v
> >
> > Note to Walt - I have the 1 watt 100kohm resistors that you suggested I
> pick
> > up. Not sure what you wanted me to try with them.
> >
> > Once again, I really appreciate all the suggestions and encouragement I
> have
> > received so far from this group.
> >
> > Steve K7QHU
> > _____
> >
> > From: Stephen Davis [mailto:sdavis@...]
> > Sent: Sunday, January 29, 2006 11:52 AM
> > To: 'TS-520_820_530_830@yahoogroups.com'
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > Hi Walt,
> >
> > Your first paragraph is correct.
> >
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v

> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal
> -95v
> > right terminal -105v
> >
> > I took measurments with mode set to lsb, band set to 40 meters,
> mike
> > gain down and with the send receive switch in the send position. All
> other
> > controls set per the table in the manual for initial transmit tuning.
> >
> > I am on the way to Radio Shack to pick up the resistors.
> >
> > Thanks
> >
> > Steve
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > Sent: Sunday, January 29, 2006 5:32 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > I am assuming the following. If I an wrong, please tell me.
> >
> > With the rig keyed in SSB, mike gain down, meter in the IP position, no
> > matter where you adjust the bias pot on the back of the rig you get
> no IP
> > reading?
> >
> > Assuming the above, with the rig keyed and set as above, Measure the
> voltage
> > to ground on the terminal on each end of the Bias pot. Then place the
> meter
> > on the center terminal and see if the voltage changes as you rotate this
> > control. Give me readings with this full CCW, fully CW and center.
> >
> > Unless you read 0 voltage on the center of the Bias pot in all
> positions,
> go
> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know when
> you
> > have done this.
> >
> > Vy 73, Walt.
> >

> >
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 28, 2006 9:33 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > > Hello All,
> > >
> > > Update on my problem with my TS-820S radio. Still no transmit on
> the
> > > radio. The symptom remains the same, that is unable to get any bias
> > reading
> > > when trying to tune the rig (if I switch meter to hf position I do
> get a
> > > reading of about 850v). Thanks to Walt, these are the things tried so
> far
> > > in troubleshooting the radio:
> > >
> > > Checked the cathode resistors (ok).
> > > Checked Plate chokes for short (ok)
> > > Checked relay on relay board (ok, or I should say contacts are
> clean
> > > and relay moves when I switch from rec to send)
> > > Checked SG switch (ok)
> > > Filaments light in all three tubes.
> > > Substituted all three tubes, no change in symptoms.
> > >
> > > Any thoughts on the next steps I should take to troubleshoot this
> > would
> > > be appreciated. I really would like to get this rig on the air!
> > >
> > > Thanks
> > >
> > > Steve - K7QHU
> > >
> > > _____
> > >
> > > From: Stephen Davis [mailto:sdavis@...]
> > > Sent: Thursday, January 19, 2006 8:43 PM
> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > Hi Walt,
> > >
> > > You are correct, I am not getting any idle current. All tube
> > filaments

> > > are lit. I tried rotating the bias control in the back and keying the
> > send
> > > switch as suggested. I did not notice excessive heating at either end
> of
> > > the rotation.
> > >
> > > I have removed the relay housing (Omron type MH4P) from the relay
> > > board, but having trouble getting the plastic cover off. I am being
> very
> > > gentle so as not to break it, but not haveing much success. Will
> continue
> > > to try. In the meantime, just eyeballing the contacts, the contacts
> that
> > > are in the open position look very clean. I was looking a the
> schematic
> > (a
> > > somewhat fuzzy copy) to try and determine what voltage is used across
> the
> > > coil to open/close the relay, but I could not tell. I was
> thinking this
> > > could be a way to test to make sure at least the relay(s) are opening
> and
> > > closing. If I can determine the voltage, is this a legitimate
> test? I
> > also
> > > measured the resistance across the coil and it was around 380 ohms,
> which
> > is
> > > the resistance stamped on it, so at least I know the coil is not
> open or
> > > shorted.
> > >
> > > I will keep trying to get the plastic case off so I can actually
> > clean
> > > the contacts. Just wanted to update you on my progress.
> > >
> > > Thanks
> > >
> > > Steve
> > > K7QHU
> > >
> > > _____
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> > > Sent: Thursday, January 19, 2006 12:42 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >

> > >
> > > That would indicate that you are not getting drive. And if I
> understand
> > > correctly you are also not getting any idle current. You do not need
> > drive
> > > to get idle current.
> > >
> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> SG on
> > mike
> > > gain down, Filament switch on, Meter in IP. Key rig with send
> switch and
> > > watch the IP meter as you change the Bias control in the back. At one
> > > extreme the tubes should draw a lot of current. At the other
> extreme the
> > > tubes will draw little or no current. Do you get a reading on the
> meter
> > in
> > > any bias position. If you do it should be set for 60 MA.
> > >
> > > If you do not get a reading, do you notice a lot of heat coming
> from the
> > > final area with the bias control at one extreme or the other? If the
> bias
> > > was working but the meter was not, the tubes would get very hot
> while in
> > > transmit with the bias control at one extreme but not the other. If
> they
> > do
> > > get very hot, unkey so you do not damage the tubes.
> > >
> > > Now, check again that all tubes filaments are lighted including the
> 12BY7.
> > > Check this out in a dark room. Be careful and don't fumble into
> the high
> > > voltage!
> > >
> > > If you get no idle current, no excess heat that changes with the bias
> > > control, and all tubes are lighted, next try removing the relays and
> > > inspecting the contacts. Look for burned contacts. Clean them. Remove
> only
> > 1
> > > relay at a time, as they are not the same although they look alike.
> > >
> > > Now I may be making a fool of myself suggesting the relays, but in the
> > > limited time I had this afternoon, and with the very poor diagram I
> have,
> > it
> > > seemed that the power source for the bias goes through Q5 on the RF
> board

> > > and comes to Q5 through a relay. I did not have the time to check
> this
> > > out
> > > thoroughly at this time, but it might be worth checking the relays. We
> are
> > > looking for a contact that is not conducting on transmit. Be careful
> when
> > > removing the covers on these relays, they are not available any more.
> > >
> > >
> > > Tell us what you find out and I will try to get a better diagram. I
> have
> > > one on hard copy, but it is not here.
> > >
> > > BTW, the rig should operate with the CW key unpluged.
> > >
> > > Vy 73, Walt N9WB
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > > Hi Walt,
> > > >
> > > > Following your latest instructions, here are the results:
> > > >
> > > > 1. Both plate chokes show 0 ohms when measured as you described.
> > > >
> > > > 2. Putting black lead to top of choke and red lead to ground, it
> shows
> a
> > > low
> > > > resistance to start with, then builds to a high resistance (about
> 400k).
> > > >
> > > > 3 Putting the red lead to the top of the choke and the black lead to
> > > ground,
> > > > it shows a resistance of about 400k. (somehow I must of goofed
> up my
> > > > original measurement).
> > > >
> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> switch to
> > > off,

> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch to
> send
> > > and
> > > > held down the cw key while adjusting the drive control
> through-out its
> > > > range. No movement of the meter.
> > > >
> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead and on
> the
> > > > selector switch there is a 250/1000 vdc position. I would be
> extremely
> > > > cautious making any high voltage measurements.
> > > >
> > > > Thanks again for your help. It would really be neat if we can
> actually
> > > > solve this problem!
> > > >
> > > > 73
> > > >
> > > > Steve K7QHU
> > > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby

&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date: 7/02/2006
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6670. RES: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 12:11:44 UTC
From: PY2FWA
Topic: 6457 Message: 6670

Hello Davis,

Try to clean the relay on botton fo PA Unit, note that TS820S have 2
relays ..you don´t need open the cover of PA Unit, I will see the
schematic for more information about your problem

73

Alvaro

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Stephen Davis
Enviada em: sexta-feira, 10 de fevereiro de 2006 23:49
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hello Walt/Joan/Alvaro and all,

Walt, I did as you instructed and I measure about 270 volts one
resistor up from ground in the voltage divider I constructed. The 270
volts
appeared as soon as I switched power on. I left power on for about 10
seconds and the voltage held steady.

Alvaro, I checked R4 on the rectifier board and it was ok. I took
a
measurement at the point labeled SG (which I assume stands for Screen
Grid)
and it read -110 volts. The point labeled STB measured 110 volts, the
point
210A was about 220 volts, the point 300A was about 300 volts and the
point
marked -C was -110 volts. Looking at the rectifier board, there are no
burned components and it looks pretty clean.

Joan, I have the S2001A's in the rig, so the filament voltage
should be
okay.

To recap the problem, I get zero LP and zero ALC readings when
going
thru the tuning procedures. If I switch the meter to the HV position,
it
reads about 900 volts. Tuning into a dummy load confirms there is no
output
during the tuning procedure. By the way the radio receiver works great,

its
just the transmit side that's a little sick.

Thanks again for the help, and I will keep poking around (safely)
until I hear from the group.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
Sent: Wednesday, February 08, 2006 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Steve/Walt

1. This is a long shot but probably worth a mention.
I was sitting on some nos (new old stock) 6146 replacement tubes for
some years before I had the opportunity to use them in a TS-520.
The tubes were of RCA brand with the following numbers on them -
6883B/8032A/8552.
These tubes are identical in appearance and performance as the 6146's,
except they have 12 Volt filaments.
When I eventually used the tubes I got caught with my TS-520 not having
any drive even though I could see some filaments glowing. Just not
getting hot enough for emissions.
Suppose Steve bought the radio with a set of these in it, he will never
get it going unless he rewires the tubes for 12V heater operation (and
then place a big caution sign on the chassis, to remind yourself of the
volt changes. You don't want to plug in a brand new set of 6Volt tubes).

2. From my recent repairs to a TS-830, I have made a few observations
which may be useful if the 820 circuitry is similar.
a. Bias is independant of drive/ALC. I can de-tune the Drive control
without affecting the bias setting.
b. Once the Drive control is peaked for maximum ALC, adjusting the bias
pot will change the ALC reading somewhat.
c. You can not get an ALC reading if the 6146's are not installed. (The
Anode cap does not have to be connected for an ALC reading though).
d. You can not get a bias reading if SG is switched off.

If I read Steve's comment correct, below, he has more than just a bias
problem. He seems to be missing drive also if not getting any ALC
reading.
Does Steve have another receiver to check if the oscillators are running

and on frequency?
Does anyone else agree with that?
Have you followed Alvaro Py2FWA advise yet? (That is checking all the
volages on the power supply board)

73
Joan VK5KYO

Walt Breining wrote:

> With the rig turned off and the high voltage discharged, solder the
100 k
> resistors in series and solder one end of this string to the top of
the
> plate choke (where the tube plates connect.) connect the other end to
> ground on the final cage. You can use a screw from the final cover and

> screw
> it down there. Leave the tubes in. Connect your + voltmeter lead one
> resistor up from ground and the voltmeter - lead to chassis Ground.
Set
> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
> voltmeter or volt meter leads while doing this. Turn the power and
> filaments
> on, quickly note the meter reading, and turn the power off if the
> resistors
> start getting hot. If they do not, wait long enough for the filaments
to
> warm up and see if you still get voltage. Discharge the High
Voltage
> before you touch anything.
>
> Actually, I should have told you to get 450 K ohm resistors as I have
them
> running at about 2 watts here but that will be OK. Just turn the
> power on,
> get the reading, and turn the power off.
>
> You should get something around 260v DC. this should be here as soon
> as you
> turn the power on. It could drop to 0 as the tubes warm up if there is
a
> problem. If you read 0 volts after the first 10 seconds, do not even
wait
> for the filaments to warm up, go ahead and kill the power to save the
> resistors.
>
> This is very ball park. What we are trying to determine is whether
high
> voltage is getting to the top of the plate choke. This forms a voltage

> / by
> 3 voltage divider so this test is not as dangerous as you will not
> have the
> full 800v on the volt meter or leads. The plate voltage will have to
> be way

> low or 0 to be the cause of no bias current.
>
> The resistors will probably get hot and smell rather quickly. Be sure

> after
> you turn the power off to discharge everything before making contact
with
> these components.
>
> Let us know what you find out and we can go on from there.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...m>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, February 08, 2006 12:19 AM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
> > Hello All,
> >
> > Update on my problematic TS-820S with no plate current reading
and
> no
> > bias reading. I have been pretty busy the last week so haven't had
time
> to
> > do much, however this weekend I will be able to spend some time on
it.
> > Seeking any and all advice on what to try next. I have the
schematics,
> but
> > translating that into useful troubleshooting information is not
going so
> > well. Maybe in a couple of years if I keep at it!! In the
meantime, I
> have
> > picked up some basic electronics books and an old book titled "How
to
> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> just get
> a
> > mind meld with the author!!
> >
> > To recap the steps taken so far (Thanks to Walt for suggesting
> these!):

> >
> > Checked the cathode resistors - tested OK
> > Checked the plate chokes for short - tested OK
> > Checked the relay on the relay board - contacts clean and I can see
the
> > relay work when I go from receive to send.
> > Checked the SG switch - OK
> > Filaments light in all three tubes.
> > Substituted all three tubes, no change in symptoms.
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v

> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal

> -95v
> > right terminal -105v
> >
> > Note to Walt - I have the 1 watt 100kohm resistors that you
suggested I
> pick
> > up. Not sure what you wanted me to try with them.
> >
> > Once again, I really appreciate all the suggestions and
encouragement I
> have
> > received so far from this group.
> >
> > Steve K7QHU
> > _____
> >
> > From: Stephen Davis [mailto:sdavis@beachnet.com]
> > Sent: Sunday, January 29, 2006 11:52 AM
> > To: 'TS-520_820_530_830@yahoogroups.com'
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >
> >
> > Hi Walt,
> >
> > Your first paragraph is correct.
> >
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal

> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v

> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal

> -95v
> > right terminal -105v
> >
> > I took measurments with mode set to lsb, band set to 40 meters,

> mike
> > gain down and with the send receive switch in the send position.
All
> other
> > controls set per the table in the manual for initial transmit
tuning.
> >
> > I am on the way to Radio Shack to pick up the resistors.
> >
> > Thanks
> >
> > Steve
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> > Sent: Sunday, January 29, 2006 5:32 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >
> >
> > I am assuming the following. If I an wrong, please tell me.
> >
> > With the rig keyed in SSB, mike gain down, meter in the IP position,
no
> > matter where you adjust the bias pot on the back of the rig you get
> no IP
> > reading?
> >
> > Assuming the above, with the rig keyed and set as above, Measure the
> voltage
> > to ground on the terminal on each end of the Bias pot. Then place
the
> meter
> > on the center terminal and see if the voltage changes as you rotate
this

> > control. Give me readings with this full CCW, fully CW and center.
> >
> > Unless you read 0 voltage on the center of the Bias pot in all
> positions,
> go
> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
when
> you
> > have done this.
> >
> > Vy 73, Walt.
> >
> >
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 28, 2006 9:33 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >
> >
> > > Hello All,
> > >
> > > Update on my problem with my TS-820S radio. Still no
transmit on
> the
> > > radio. The symptom remains the same, that is unable to get any
bias
> > reading
> > > when trying to tune the rig (if I switch meter to hf position I do

> get a
> > > reading of about 850v). Thanks to Walt, these are the things
tried so
> far
> > > in troubleshooting the radio:
> > >
> > > Checked the cathode resistors (ok).
> > > Checked Plate chokes for short (ok)
> > > Checked relay on relay board (ok, or I should say contacts
are
> clean
> > > and relay moves when I switch from rec to send)
> > > Checked SG switch (ok)
> > > Filaments light in all three tubes.
> > > Substituted all three tubes, no change in symptoms.
> > >
> > > Any thoughts on the next steps I should take to troubleshoot
this
> > would

> > > be appreciated. I really would like to get this rig on the air!
> > >
> > > Thanks
> > >
> > > Steve - K7QHU
> > >
> > > _____
> > >
> > > From: Stephen Davis [mailto:sdavis@beachnet.com]
> > > Sent: Thursday, January 19, 2006 8:43 PM
> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > Hi Walt,
> > >
> > > You are correct, I am not getting any idle current. All tube
> > filaments
> > > are lit. I tried rotating the bias control in the back and keying
the
> > send
> > > switch as suggested. I did not notice excessive heating at either
end
> of
> > > the rotation.
> > >
> > > I have removed the relay housing (Omron type MH4P) from the
relay
> > > board, but having trouble getting the plastic cover off. I am
being
> very
> > > gentle so as not to break it, but not haveing much success. Will
> continue
> > > to try. In the meantime, just eyeballing the contacts, the
contacts
> that
> > > are in the open position look very clean. I was looking a the
> schematic
> > (a
> > > somewhat fuzzy copy) to try and determine what voltage is used
across
> the
> > > coil to open/close the relay, but I could not tell. I was
> thinking this
> > > could be a way to test to make sure at least the relay(s) are
opening
> and
> > > closing. If I can determine the voltage, is this a legitimate
> test? I

> > also
> > > measured the resistance across the coil and it was around 380
ohms,
> which
> > is
> > > the resistance stamped on it, so at least I know the coil is not
> open or
> > > shorted.
> > >
> > > I will keep trying to get the plastic case off so I can
actually
> > clean
> > > the contacts. Just wanted to update you on my progress.
> > >
> > > Thanks
> > >
> > > Steve
> > > K7QHU
> > >
> > > _____
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> > > Sent: Thursday, January 19, 2006 12:42 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > That would indicate that you are not getting drive. And if I
> understand
> > > correctly you are also not getting any idle current. You do not
need
> > drive
> > > to get idle current.
> > >
> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> SG on
> > mike
> > > gain down, Filament switch on, Meter in IP. Key rig with send
> switch and
> > > watch the IP meter as you change the Bias control in the back. At
one
> > > extreme the tubes should draw a lot of current. At the other
> extreme the
> > > tubes will draw little or no current. Do you get a reading on the

> meter
> > in

> > > any bias position. If you do it should be set for 60 MA.
> > >
> > > If you do not get a reading, do you notice a lot of heat coming
> from the
> > > final area with the bias control at one extreme or the other? If
the
> bias
> > > was working but the meter was not, the tubes would get very hot
> while in
> > > transmit with the bias control at one extreme but not the other.
If
> they
> > do
> > > get very hot, unkey so you do not damage the tubes.
> > >
> > > Now, check again that all tubes filaments are lighted including
the
> 12BY7.
> > > Check this out in a dark room. Be careful and don't fumble into
> the high
> > > voltage!
> > >
> > > If you get no idle current, no excess heat that changes with the
bias
> > > control, and all tubes are lighted, next try removing the relays
and
> > > inspecting the contacts. Look for burned contacts. Clean them.
Remove
> only
> > 1
> > > relay at a time, as they are not the same although they look
alike.
> > >
> > > Now I may be making a fool of myself suggesting the relays, but in
the
> > > limited time I had this afternoon, and with the very poor diagram
I
> have,
> > it
> > > seemed that the power source for the bias goes through Q5 on the
RF
> board
> > > and comes to Q5 through a relay. I did not have the time to check

> this
> > out
> > > thoroughly at this time, but it might be worth checking the
relays. We
> are
> > > looking for a contact that is not conducting on transmit. Be

careful
> when
> > > removing the covers on these relays, they are not available any
more.
> > >
> > >
> > > Tell us what you find out and I will try to get a better diagram.
I
> have
> > > one on hard copy, but it is not here.
> > >
> > > BTW, the rig should operate with the CW key unpluged.
> > >
> > > Vy 73, Walt N9WB
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > > Hi Walt,
> > > >
> > > > Following your latest instructions, here are the results:
> > > >
> > > > 1. Both plate chokes show 0 ohms when measured as you described.
> > > >
> > > > 2. Putting black lead to top of choke and red lead to ground, it

> shows
> a
> > > low
> > > > resistance to start with, then builds to a high resistance
(about
> 400k).
> > > >
> > > > 3 Putting the red lead to the top of the choke and the black
lead to
> > > ground,
> > > > it shows a resistance of about 400k. (somehow I must of goofed
> up my
> > > > original measurement).
> > > >
> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> switch to
> > off,

> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch
to
> send
> > > and
> > > > held down the cw key while adjusting the drive control
> through-out its
> > > > range. No movement of the meter.
> > > >
> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and on
> the
> > > > selector switch there is a 250/1000 vdc position. I would be
> extremely
> > > > cautious making any high voltage measurements.
> > > >
> > > > Thanks again for your help. It would really be neat if we can
> actually
> > > > solve this problem!
> > > >
> > > > 73
> > > >
> > > > Steve K7QHU
> > > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s

=60&
.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3
&s=6
0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+sup
ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

>
>---
-
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:

7/02/2006
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
and craft supply

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service
<http://docs.yahoo.com/info/terms/> .

_____

[Non-text portions of this message have been removed]

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby

Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6671. RES: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 12:19:10 UTC
From: PY2FWA
Topic: 6457 Message: 6671

Davis, on the Kenwood site you can download some service notes for
TS820S....please go there and download these documents...
ASB0024C and ASB0024D these documents still have some important
information about transmition faults....

Gd lk

73

Alvaro

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Stephen Davis
Enviada em: sexta-feira, 10 de fevereiro de 2006 23:49
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hello Walt/Joan/Alvaro and all,

Walt, I did as you instructed and I measure about 270 volts one
resistor up from ground in the voltage divider I constructed. The 270
volts
appeared as soon as I switched power on. I left power on for about 10
seconds and the voltage held steady.

Alvaro, I checked R4 on the rectifier board and it was ok. I took
a
measurement at the point labeled SG (which I assume stands for Screen
Grid)
and it read -110 volts. The point labeled STB measured 110 volts, the
point
210A was about 220 volts, the point 300A was about 300 volts and the
point
marked -C was -110 volts. Looking at the rectifier board, there are no
burned components and it looks pretty clean.

Joan, I have the S2001A's in the rig, so the filament voltage
should be
okay.

To recap the problem, I get zero LP and zero ALC readings when
going
thru the tuning procedures. If I switch the meter to the HV position,
it
reads about 900 volts. Tuning into a dummy load confirms there is no
output

during the tuning procedure. By the way the radio receiver works great, its
just the transmit side that's a little sick.

Thanks again for the help, and I will keep poking around (safely)
until I hear from the group.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
Sent: Wednesday, February 08, 2006 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Steve/Walt

1. This is a long shot but probably worth a mention.
I was sitting on some nos (new old stock) 6146 replacement tubes for
some years before I had the opportunity to use them in a TS-520.
The tubes were of RCA brand with the following numbers on them -
6883B/8032A/8552.
These tubes are identical in appearance and performance as the 6146's,
except they have 12 Volt filaments.
When I eventually used the tubes I got caught with my TS-520 not having
any drive even though I could see some filaments glowing. Just not
getting hot enough for emissions.
Suppose Steve bought the radio with a set of these in it, he will never
get it going unless he rewires the tubes for 12V heater operation (and
then place a big caution sign on the chassis, to remind yourself of the
volt changes. You don't want to plug in a brand new set of 6Volt tubes).

2. From my recent repairs to a TS-830, I have made a few observations
which may be useful if the 820 circuitry is similar.
a. Bias is independant of drive/ALC. I can de-tune the Drive control
without affecting the bias setting.
b. Once the Drive control is peaked for maximum ALC, adjusting the bias
pot will change the ALC reading somewhat.
c. You can not get an ALC reading if the 6146's are not installed. (The
Anode cap does not have to be connected for an ALC reading though).
d. You can not get a bias reading if SG is switched off.

If I read Steve's comment correct, below, he has more than just a bias
problem. He seems to be missing drive also if not getting any ALC
reading.
Does Steve have another receiver to check if the oscillators are running

and on frequency?
Does anyone else agree with that?
Have you followed Alvaro Py2FWA advise yet? (That is checking all the

volages on the power supply board)

73
Joan VK5KYO

Walt Breining wrote:

> With the rig turned off and the high voltage discharged, solder the
100 k
> resistors in series and solder one end of this string to the top of
the
> plate choke (where the tube plates connect.) connect the other end to
> ground on the final cage. You can use a screw from the final cover and

> screw
> it down there. Leave the tubes in. Connect your + voltmeter lead one
> resistor up from ground and the voltmeter - lead to chassis Ground.
Set
> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
> voltmeter or volt meter leads while doing this. Turn the power and
> filaments
> on, quickly note the meter reading, and turn the power off if the
> resistors
> start getting hot. If they do not, wait long enough for the filaments
to
> warm up and see if you still get voltage. Discharge the High
Voltage
> before you touch anything.
>
> Actually, I should have told you to get 450 K ohm resistors as I have
them
> running at about 2 watts here but that will be OK. Just turn the
> power on,
> get the reading, and turn the power off.
>
> You should get something around 260v DC. this should be here as soon
> as you
> turn the power on. It could drop to 0 as the tubes warm up if there is
a
> problem. If you read 0 volts after the first 10 seconds, do not even
wait
> for the filaments to warm up, go ahead and kill the power to save the
> resistors.
>
> This is very ball park. What we are trying to determine is whether
high
> voltage is getting to the top of the plate choke. This forms a voltage

> / by
> 3 voltage divider so this test is not as dangerous as you will not

> have the
> full 800v on the volt meter or leads. The plate voltage will have to
> be way
> low or 0 to be the cause of no bias current.
>
> The resistors will probably get hot and smell rather quickly. Be sure
> after
> you turn the power off to discharge everything before making contact
with
> these components.
>
> Let us know what you find out and we can go on from there.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, February 08, 2006 12:19 AM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
> > Hello All,
> >
> > Update on my problematic TS-820S with no plate current reading
and
> no
> > bias reading. I have been pretty busy the last week so haven't had
time
> to
> > do much, however this weekend I will be able to spend some time on
it.
> > Seeking any and all advice on what to try next. I have the
schematics,
> but
> > translating that into useful troubleshooting information is not
going so
> > well. Maybe in a couple of years if I keep at it!! In the
meantime, I
> have
> > picked up some basic electronics books and an old book titled "How
to
> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> just get
> a
> > mind meld with the author!!

> >
> > To recap the steps taken so far (Thanks to Walt for suggesting
> these!):
> >
> > Checked the cathode resistors - tested OK
> > Checked the plate chokes for short - tested OK
> > Checked the relay on the relay board - contacts clean and I can see
the
> > relay work when I go from receive to send.
> > Checked the SG switch - OK
> > Filaments light in all three tubes.
> > Substituted all three tubes, no change in symptoms.
> > I took the following measurements at the bias pot.
> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v

> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal

> -95v
> > right terminal -105v
> >
> > Note to Walt - I have the 1 watt 100kohm resistors that you
suggested I
> pick
> > up. Not sure what you wanted me to try with them.
> >
> > Once again, I really appreciate all the suggestions and
encouragement I
> have
> > received so far from this group.
> >
> > Steve K7QHU
> > _____
> >
> > From: Stephen Davis [mailto:sdavis@...]
> > Sent: Sunday, January 29, 2006 11:52 AM
> > To: 'TS-520_820_530_830@yahoogroups.com'
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >
> >
> > Hi Walt,
> >
> > Your first paragraph is correct.
> >
> > I took the following measurements at the bias pot.

> >
> > Bias pot fully counterclockwise: left terminal -95v center
> terminal
> > -105v right terminal -105v
> > Bias pot centered: left terminal -95v center terminal -95v

> right
> > terminal -105v
> > Bias pot fully clockwise left terminal -95v center terminal

> -95v
> > right terminal -105v
> >
> > I took measurments with mode set to lsb, band set to 40 meters,

> mike
> > gain down and with the send receive switch in the send position.
All
> other
> > controls set per the table in the manual for initial transmit
tuning.
> >
> > I am on the way to Radio Shack to pick up the resistors.
> >
> > Thanks
> >
> > Steve
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> > Sent: Sunday, January 29, 2006 5:32 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >
> >
> > I am assuming the following. If I an wrong, please tell me.
> >
> > With the rig keyed in SSB, mike gain down, meter in the IP position,
no
> > matter where you adjust the bias pot on the back of the rig you get
> no IP
> > reading?
> >
> > Assuming the above, with the rig keyed and set as above, Measure the
> voltage
> > to ground on the terminal on each end of the Bias pot. Then place
the

> meter
> > on the center terminal and see if the voltage changes as you rotate
this
> > control. Give me readings with this full CCW, fully CW and center.
> >
> > Unless you read 0 voltage on the center of the Bias pot in all
> positions,
> go
> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
when
> you
> > have done this.
> >
> > Vy 73, Walt.
> >
> >
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, January 28, 2006 9:33 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >
> >
> > > Hello All,
> > >
> > > Update on my problem with my TS-820S radio. Still no
transmit on
> the
> > > radio. The symptom remains the same, that is unable to get any
bias
> > reading
> > > when trying to tune the rig (if I switch meter to hf position I do

> get a
> > > reading of about 850v). Thanks to Walt, these are the things
tried so
> far
> > > in troubleshooting the radio:
> > >
> > > Checked the cathode resistors (ok).
> > > Checked Plate chokes for short (ok)
> > > Checked relay on relay board (ok, or I should say contacts
are
> clean
> > > and relay moves when I switch from rec to send)
> > > Checked SG switch (ok)
> > > Filaments light in all three tubes.
> > > Substituted all three tubes, no change in symptoms.
> > >

> > > Any thoughts on the next steps I should take to troubleshoot
this
> > would
> > > be appreciated. I really would like to get this rig on the air!
> > >
> > > Thanks
> > >
> > > Steve - K7QHU
> > >
> > > _____
> > >
> > > From: Stephen Davis [mailto:sdavis@...]
> > > Sent: Thursday, January 19, 2006 8:43 PM
> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > Hi Walt,
> > >
> > > You are correct, I am not getting any idle current. All tube
> > filaments
> > > are lit. I tried rotating the bias control in the back and keying
the
> > send
> > > switch as suggested. I did not notice excessive heating at either
end
> of
> > > the rotation.
> > >
> > > I have removed the relay housing (Omron type MH4P) from the
relay
> > > board, but having trouble getting the plastic cover off. I am
being
> very
> > > gentle so as not to break it, but not haveing much success. Will
> continue
> > > to try. In the meantime, just eyeballing the contacts, the
contacts
> that
> > > are in the open position look very clean. I was looking a the
> schematic
> > (a
> > > somewhat fuzzy copy) to try and determine what voltage is used
across
> the
> > > coil to open/close the relay, but I could not tell. I was
> thinking this
> > > could be a way to test to make sure at least the relay(s) are
opening

> and
> > > closing. If I can determine the voltage, is this a legitimate
> test? I
> > also
> > > measured the resistance across the coil and it was around 380
ohms,
> which
> > is
> > > the resistance stamped on it, so at least I know the coil is not
> open or
> > > shorted.
> > >
> > > I will keep trying to get the plastic case off so I can
actually
> > clean
> > > the contacts. Just wanted to update you on my progress.
> > >
> > > Thanks
> > >
> > > Steve
> > > K7QHU
> > >
> > > _____
> > >
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> > > Sent: Thursday, January 19, 2006 12:42 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > That would indicate that you are not getting drive. And if I
> understand
> > > correctly you are also not getting any idle current. You do not
need
> > drive
> > > to get idle current.
> > >
> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> SG on
> > mike
> > > gain down, Filament switch on, Meter in IP. Key rig with send
> switch and
> > > watch the IP meter as you change the Bias control in the back. At
one
> > > extreme the tubes should draw a lot of current. At the other
> extreme the
> > > tubes will draw little or no current. Do you get a reading on the

> meter
> > in
> > > any bias position. If you do it should be set for 60 MA.
> > >
> > > If you do not get a reading, do you notice a lot of heat coming
> from the
> > > final area with the bias control at one extreme or the other? If
the
> bias
> > > was working but the meter was not, the tubes would get very hot
> while in
> > > transmit with the bias control at one extreme but not the other.
If
> they
> > do
> > > get very hot, unkey so you do not damage the tubes.
> > >
> > > Now, check again that all tubes filaments are lighted including
the
> 12BY7.
> > > Check this out in a dark room. Be careful and don't fumble into
> the high
> > > voltage!
> > >
> > > If you get no idle current, no excess heat that changes with the
bias
> > > control, and all tubes are lighted, next try removing the relays
and
> > > inspecting the contacts. Look for burned contacts. Clean them.
Remove
> only
> > 1
> > > relay at a time, as they are not the same although they look
alike.
> > >
> > > Now I may be making a fool of myself suggesting the relays, but in
the
> > > limited time I had this afternoon, and with the very poor diagram
I
> have,
> > it
> > > seemed that the power source for the bias goes through Q5 on the
RF
> board
> > > and comes to Q5 through a relay. I did not have the time to check

> this
> > out
> > > thoroughly at this time, but it might be worth checking the
relays. We
> are

> > > looking for a contact that is not conducting on transmit. Be
careful
> when
> > > removing the covers on these relays, they are not available any
more.
> > >
> > >
> > > Tell us what you find out and I will try to get a better diagram.
I
> have
> > > one on hard copy, but it is not here.
> > >
> > > BTW, the rig should operate with the CW key unpluged.
> > >
> > > Vy 73, Walt N9WB
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >
> > >
> > > > Hi Walt,
> > > >
> > > > Following your latest instructions, here are the results:
> > > >
> > > > 1. Both plate chokes show 0 ohms when measured as you described.
> > > >
> > > > 2. Putting black lead to top of choke and red lead to ground, it

> shows
> a
> > > low
> > > > resistance to start with, then builds to a high resistance
(about
> 400k).
> > > >
> > > > 3 Putting the red lead to the top of the choke and the black
lead to
> > > ground,
> > > > it shows a resistance of about 400k. (somehow I must of goofed
> up my
> > > > original measurement).
> > > >
> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> switch to

> > off,
> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch
to
> send
> > > and
> > > > held down the cw key while adjusting the drive control
> through-out its
> > > > range. No movement of the meter.
> > > >
> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and on
> the
> > > > selector switch there is a 250/1000 vdc position. I would be
> extremely
> > > > cautious making any high voltage measurements.
> > > >
> > > > Thanks again for your help. It would really be neat if we can
> actually
> > > > solve this problem!
> > > >
> > > > 73
> > > >
> > > > Steve K7QHU
> > > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>

&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s
=60&
.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3
&s=6
0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+sup
ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

>
>---
-
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.

>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
7/02/2006
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
and craft supply

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service
<http://docs.yahoo.com/info/terms/> .

_____

[Non-text portions of this message have been removed]

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>

hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6672. Display DG-1 of TS-820S again....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 13:27:29 UTC
From: py2fwa
Topic: 6672 Message: 6672

Hi Group....

I still have some problems with my DG-1 display of TS-820S, sprayed deoxit
on the contacts, washed the PCB, resold all components etc...but the problem still continue. Some person of this group already made this modification using the
dysplay like this == http://www.aade.com/Applic~1.htm#TS820 ???
I believe that this is a soluction finnal for the DG-1 problems. Some suggestion are wellcome.

73 for all and sorry for my poor English....

ALVARO
PY2FWA

6673. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 13:29:50 UTC
From: Walt Breining
Topic: 6457 Message: 6673

OK, we know that you are getting plate voltage. With everything discharged, Take the plate caps off of the tubes and check for continuity with your ohm meter between the top of the plate choke and the plate cap. I just want to confirm that High voltage can get from the top of the plate choke to the tubes. I know that this is unlikely, but we are to the point where we need to be thorough.

Since you cannot get bias current no matter where the bias control is set, You have a problem in the final stage. Even if you had no drive and no output from the 12BY7 tube, if the final stage were working properly you should be able to get some idle current. This would even be true with weak tubes.

We now have confirmed that you are getting B+ to the tube plates.
Next you need to look into the Screen Grid voltage.

Whoa Hold the phone Mildred!

You got MINUS 110 v on the screen? WRONG. Minus 110 volts on the screen will shut the tube off and keep it from conducting. Be sure you are reading it right. Black volt meter on ground red volt meter lead on SG post.

Be SURE that the SG switch on the back is ON.

If your problem turns out to be one of the above and you actually are getting something like + 200 V on the SG point with the mode switch in SSB then measure the voltage at pin 3 at each tube socket on the foil side of the board. This is to confirm that about + 200 volts is going to the screen pin, pin 3.

If Minus 110 is actually what you are getting at the SG terminal, then go to the SG switch and carefully measure the 3 terminals on it. The top terminal should have something on it like + 200, the center should be + 200 the bottom -110. This is with the SG switch ON.

If you have trouble counting the pins, tell me and I will walk you through it.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, February 10, 2006 8:48 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello Walt/Joan/Alvaro and all,
>

> Walt, I did as you instructed and I measure about 270 volts one
> resistor up from ground in the voltage divider I constructed. The 270
volts
> appeared as soon as I switched power on. I left power on for about 10
> seconds and the voltage held steady.
>
> Alvaro, I checked R4 on the rectifier board and it was ok. I took a
> measurement at the point labeled SG (which I assume stands for Screen
Grid)
> and it read -110 volts. The point labeled STB measured 110 volts, the
point
> 210A was about 220 volts, the point 300A was about 300 volts and the point
> marked -C was -110 volts. Looking at the rectifier board, there are no
> burned components and it looks pretty clean.
>
> Joan, I have the S2001A's in the rig, so the filament voltage should
be
> okay.
>
> To recap the problem, I get zero LP and zero ALC readings when going
> thru the tuning procedures. If I switch the meter to the HV position, it
> reads about 900 volts. Tuning into a dummy load confirms there is no
output
> during the tuning procedure. By the way the radio receiver works great,
its
> just the transmit side that's a little sick.
>
> Thanks again for the help, and I will keep poking around (safely)
> until I hear from the group.
>
> Steve K7QHU
>

6674. Some more thoughts on matched valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 15:41:30 UTC
From: Joan de vk5kyo
Topic: 6457 Message: 6674

Hi everybody

I know there has been lots of discussions in the past regarding matched pairs of 6146's for the Kenwoods and alike, and the answer may have already been posted, but I have just repaired 2 TS-830's with output power problems which left me with some questions.
During the quest to resolve the issues, I was thinking a little more on the issue of matched valves.
The owner of the radio I was repairing, send me a matched pair of 6146's and on each of the valves was a number written on it.
Can I assume this is the gain of the tube, or is it the current drawn under certain test parameters, and the fact that both numbers are the same, I will say that they are a match?
The other question I was left pondering with is when I pulled my RCA test tubes out (which happens to have 12 volt filaments), and rewired the set back to standard 6 volt operation, will it be as good?
When the experts check new tubes for so called matched characteristics, are they applying 6volts to each filament and testing the gain of a tube individually, or are they putting a pair of tubes with their heater filaments in series (as Kenwood is wired this way), and then checking for their individual gain.
The results will be different and for those that know, can you tell me if it is significant or not.
The reason why I say it will be different is because my experience has been that the filament of each 6146 is not exactly the same resistance(call it manufacturers tolerance), and if you measure the voltage drop across each tube, it maybe 6.0 volts for one and 6.4 volts for the other. That is pretty well what I measure.
This is a bad thing because the tube with a higher resitance will also have a higher voltage drop across the heater and will therefore be more stressed.
Which begs the question whether it will be working harder than it's mate who is having a holiday.
I know the valves will still work and more than likely put out 100++ Watts, but it does sort of blow the matched pair theory.
I'd would call them truly matched if both the filaments have equal resistance and therefore hopefully the same heat value generated to promote emissions and finally they have the same gain.
If the tubes were only tested individually with 6 volts applied to the heaters, then the only way we could correct the problem, is to balance out the weaker valve with a bit of extra resistance parallel with the heater so that both 6146's will have equal heater voltage.
I hope you get the drift of what I am trying to say.
I'd appreciate your thoughts on this.
One might say that it is too much theory and that in the practical sense

it wont make a scrap of difference.
It may well be the reason why there have been some premature failures, especially when one starts to mix different brands of 6146's.
Illustration time - Different manufacturers of clothing are all asked to produce a size 16 garment, and yet the final product all seem to differ a little in size.
To stay on the humurous side, my last statistic count of 5, goes to the most popular name in this group, and that is"Bill". The Bill's have it.
Because of this fact, I like to drag these wonderful gentlemen into another illustration, and say that allthough they carry the same name, all Bills are not the same, in fact they are all unique.
So how can you ever have matched pairs of 6146's??

Joan VK5KYO

6675. Introduction - New Member - Irv VE6BP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 16:12:15 UTC
From: Irv
Topic: 6675 Message: 6675

- Located in Calgary AB
- ex-Military (1957-1983) - Radio Operator (Navy), Technician, Electronic Warfare, Communications and Electronics Officer, Communications & Electronics Intelligence
- Sony Factory Service Technician (Journeyman ticket, Alberta)
- Now retired and working as volunteer with special needs kids
- TS520s with DG-5

Looking forward to being a fairly active member of this group.

Irv

6676. Replacement Relay for TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 16:21:04 UTC
From: Irv
Topic: 6676 Message: 6676

I am trying to help out an oldtimer here who has
a TS-820. The relay is the one which switches the
IF and other circuitry between transmit and receive
(not the antenna relay). I've cleaned it once before,
but he's a heavy smoker and that may have influenced
the problem. I've cleaned a number of them on
previous occasions (I used to have an 820 as well), and
am pretty sure that with time I'm going to have to
find replacements.

Ive already referred him to Ken's Electronics and
he will call them monday. I have also searched around
including this group but can't find the info I need.
Hopefully I'll get it here.

Does anyone know of other sources for replacement and
the part number (of the replacement) if possible?

Thanks in advance for any assistance.

Irv VE6BP

6677. Current surge

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 17:01:54 UTC
From: Kim
Topic: 6677 Message: 6677

My TS 830S was damaged by a current surge. A few components were burned on the IF board and a few on the RF board. The radio no longer transmits but still receives. I'n not sure if the cause is in the voltage regulation circuitry or if current was drawn from a failure near the tubes. Any suggestions?

6678. RES: [TS-520_820_530_830] Replacement Relay for TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 17:44:50 UTC
From: PY2FWA
Topic: 6676 Message: 6678

Hi Irv...please see this link
http://www.metaltex.com.br/downloads/SBM.pdf and this
http://www.metaltex.com.br/downloads/TN.pdf .

73

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Irv
Enviada em: sábado, 11 de fevereiro de 2006 14:21
Para: TS-520_820_530_830@yahoogroups.com
Assunto: [TS-520_820_530_830] Replacement Relay for TS-820s

I am trying to help out an oldtimer here who has
a TS-820. The relay is the one which switches the
IF and other circuitry between transmit and receive
(not the antenna relay). I've cleaned it once before,
but he's a heavy smoker and that may have influenced
the problem. I've cleaned a number of them on
previous occasions (I used to have an 820 as well), and
am pretty sure that with time I'm going to have to
find replacements.

Ive already referred him to Ken's Electronics and
he will call them monday. I have also searched around
including this group but can't find the info I need.
Hopefully I'll get it here.

Does anyone know of other sources for replacement and
the part number (of the replacement) if possible?

Thanks in advance for any assistance.

Irv VE6BP

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>

hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6679. RE: TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 20:24:56 UTC
From: pjcoombs@frontiernet.net
Topic: 6457 Message: 6679

Steve,

Take that reading again on the screen grid voltage. I'm pretty sure it should be a positive number. Make sure you are reading from the voltage divider junction to ground and not across one of the resistors.

-jay, kb9wwq

> I took a measurement at the point labeled SG
>(which I assume stands for Screen Grid)
>and it read -110 volts.

6680. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-11 23:34:42 UTC
From: Stephen Davis
Topic: 6457 Message: 6680

Hello gang,

Thanks for all the suggestions. Here are the results of the latest testing. First I verified the SG reading by doing the following:

Okay, to measure the SG point on the Rectifier board I set up the VOM as follows: Black lead plugged into the VOM socket labeled "- com" and the other end of the black lead is clipped to the chassis (ground) of the radio. The red lead is plugged into the socket labeled " + v o m" (the o is really the ohms sign). I use the other end to the red lead to carefully measure the point SG. When I measure the point SG with the red lead, it deflects the needle below the zero reading. Next, I reverse the lead by clipping the red lead to ground and measuring point SG with the black lead and it measures 110 volts. I interpret this as being negative 110 volts.

I also noticed a measurement point labeled SG on the Final board. If I take a measurement here (SG point on the final board) then the reading is positive 250 volts.

Next measurement was to measure the SG test point on the final board and pin 3 of the final tubes with the SG switch ON and the mode switch in the TUNE position. Both pin 3's and the SG test point measured 0 volts

Next measurement was to measure the SG test point on the final board and pin 3 of the final tubes with the SG switch ON and the mode switch in the LSB position. Both pin 3's and the SG test point measured Positive 250 volts.

Perhaps I confused the issue when I took the negative readings at the SG test point on the Rectifier board!

Alvaro, you mentioned a relay on the bottom of the PA board. I don't see a relay there. I do see a metal box that is between the back of the chassis and the PA board (right next to the SG switch). Could this be the relay?

Thanks again for all the help.

Steve - K7QHU

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Saturday, February 11, 2006 2:28 PM
To: sdavis@...
Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250 volt range. If it is minus or negative your finals will not work correctly.

Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set to its highest DV volt range until it is safe to use a lower range. Set meter to read positive voltages. SG switch ON Good luck.

Joe k7mks
----- Original Message -----
From: "joe sloss" <k7mks@...>
To: <sdavis@...>
Sent: Saturday, February 11, 2006 12:40 AM
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Steve: Take a moment and carefully measure the screen grid voltage of the
> 6146 tubes when you are in the TUNE position. There is HV in there so be
> carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
>
> Joe k7mks
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, February 10, 2006 5:48 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
>> Hello Walt/Joan/Alvaro and all,
>>
>> Walt, I did as you instructed and I measure about 270 volts one
>> resistor up from ground in the voltage divider I constructed. The 270
>> volts
>> appeared as soon as I switched power on. I left power on for about 10
>> seconds and the voltage held steady.
>>
>> Alvaro, I checked R4 on the rectifier board and it was ok. I took a
>> measurement at the point labeled SG (which I assume stands for Screen
>> Grid)
>> and it read -110 volts. The point labeled STB measured 110 volts, the
>> point
>> 210A was about 220 volts, the point 300A was about 300 volts and the
>> point
>> marked -C was -110 volts. Looking at the rectifier board, there are no
>> burned components and it looks pretty clean.
>>
>> Joan, I have the S2001A's in the rig, so the filament voltage should
>> be
>> okay.
>>
>> To recap the problem, I get zero LP and zero ALC readings when going
>> thru the tuning procedures. If I switch the meter to the HV position, it
>> reads about 900 volts. Tuning into a dummy load confirms there is no
>> output
>> during the tuning procedure. By the way the radio receiver works great,
>> its
>> just the transmit side that's a little sick.

>>
>> Thanks again for the help, and I will keep poking around (safely)
>> until I hear from the group.
>>
>> Steve K7QHU
>>
>> _____
>>
>> From: TS-520_820_530_830@yahoogroups.com
>> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
>> Sent: Wednesday, February 08, 2006 7:44 AM
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>>
>>
>> Hi Steve/Walt
>>
>> 1. This is a long shot but probably worth a mention.
>> I was sitting on some nos (new old stock) 6146 replacement tubes for
>> some years before I had the opportunity to use them in a TS-520.
>> The tubes were of RCA brand with the following numbers on them -
>> 6883B/8032A/8552.
>> These tubes are identical in appearance and performance as the 6146's,
>> except they have 12 Volt filaments.
>> When I eventually used the tubes I got caught with my TS-520 not having
>> any drive even though I could see some filaments glowing. Just not
>> getting hot enough for emissions.
>> Suppose Steve bought the radio with a set of these in it, he will never
>> get it going unless he rewires the tubes for 12V heater operation (and
>> then place a big caution sign on the chassis, to remind yourself of the
>> volt changes. You don't want to plug in a brand new set of 6Volt tubes).
>>
>> 2. From my recent repairs to a TS-830, I have made a few observations
>> which may be useful if the 820 circuitry is similar.
>> a. Bias is independant of drive/ALC. I can de-tune the Drive control
>> without affecting the bias setting.
>> b. Once the Drive control is peaked for maximum ALC, adjusting the bias
>> pot will change the ALC reading somewhat.
>> c. You can not get an ALC reading if the 6146's are not installed. (The
>> Anode cap does not have to be connected for an ALC reading though).
>> d. You can not get a bias reading if SG is switched off.
>>
>> If I read Steve's comment correct, below, he has more than just a bias
>> problem. He seems to be missing drive also if not getting any ALC
>> reading.
>> Does Steve have another receiver to check if the oscillators are running
>> and on frequency?
>> Does anyone else agree with that?
>> Have you followed Alvaro Py2FWA advise yet? (That is checking all the
>> volages on the power supply board)

>>
>> 73
>> Joan VK5KYO
>>
>>
>>
>> Walt Breining wrote:
>>
>>> With the rig turned off and the high voltage discharged, solder the 100
>>> k
>>> resistors in series and solder one end of this string to the top of the
>>> plate choke (where the tube plates connect.) connect the other end to
>>> ground on the final cage. You can use a screw from the final cover and
>>> screw
>>> it down there. Leave the tubes in. Connect your + voltmeter lead one
>>> resistor up from ground and the voltmeter - lead to chassis Ground. Set
>>> your voltmeter to a scale that will read about 300 VDC. Do not hold the
>>> voltmeter or volt meter leads while doing this. Turn the power and
>>> filaments
>>> on, quickly note the meter reading, and turn the power off if the
>>> resistors
>>> start getting hot. If they do not, wait long enough for the filaments to
>>> warm up and see if you still get voltage. Discharge the High Voltage
>>> before you touch anything.
>>>
>>> Actually, I should have told you to get 450 K ohm resistors as I have
>>> them
>>> running at about 2 watts here but that will be OK. Just turn the
>>> power on,
>>> get the reading, and turn the power off.
>>>
>>> You should get something around 260v DC. this should be here as soon
>>> as you
>>> turn the power on. It could drop to 0 as the tubes warm up if there is a
>>> problem. If you read 0 volts after the first 10 seconds, do not even
>>> wait
>>> for the filaments to warm up, go ahead and kill the power to save the
>>> resistors.
>>>
>>> This is very ball park. What we are trying to determine is whether high
>>> voltage is getting to the top of the plate choke. This forms a voltage
>>> / by
>>> 3 voltage divider so this test is not as dangerous as you will not
>>> have the
>>> full 800v on the volt meter or leads. The plate voltage will have to
>>> be way
>>> low or 0 to be the cause of no bias current.
>>>
>>> The resistors will probably get hot and smell rather quickly. Be sure
>>> after

>>> you turn the power off to discharge everything before making contact
>>> with
>>> these components.
>>>
>>> Let us know what you find out and we can go on from there.
>>>
>>> Vy 73, Walt N9WB
>>>
>>>
>>>
>>> ----- Original Message -----
>>> From: "Stephen Davis" <sdavis@...>
>>> To: <TS-520_820_530_830@yahoogroups.com>
>>> Sent: Wednesday, February 08, 2006 12:19 AM
>>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>>>
>>>
>>> > Hello All,
>>> >
>>> > Update on my problematic TS-820S with no plate current reading
>>> > and
>>> no
>>> > bias reading. I have been pretty busy the last week so haven't had
>>> > time
>>> to
>>> > do much, however this weekend I will be able to spend some time on it.
>>> > Seeking any and all advice on what to try next. I have the
>>> > schematics,
>>> but
>>> > translating that into useful troubleshooting information is not going
>>> > so
>>> > well. Maybe in a couple of years if I keep at it!! In the meantime,
>>> > I
>>> have
>>> > picked up some basic electronics books and an old book titled "How to
>>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
>>> just get
>>> a
>>> > mind meld with the author!!
>>> >
>>> > To recap the steps taken so far (Thanks to Walt for suggesting
>>> these!):
>>> >
>>> > Checked the cathode resistors - tested OK
>>> > Checked the plate chokes for short - tested OK
>>> > Checked the relay on the relay board - contacts clean and I can see
>>> > the
>>> > relay work when I go from receive to send.
>>> > Checked the SG switch - OK
>>> > Filaments light in all three tubes.

>>> > Substituted all three tubes, no change in symptoms.
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > Note to Walt - I have the 1 watt 100kohm resistors that you suggested
>>> > I
>>> pick
>>> > up. Not sure what you wanted me to try with them.
>>> >
>>> > Once again, I really appreciate all the suggestions and encouragement
>>> > I
>>> have
>>> > received so far from this group.
>>> >
>>> > Steve K7QHU
>>> > _____
>>> >
>>> > From: Stephen Davis [mailto:sdavis@...]
>>> > Sent: Sunday, January 29, 2006 11:52 AM
>>> > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > Hi Walt,
>>> >
>>> > Your first paragraph is correct.
>>> >
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > I took measurments with mode set to lsb, band set to 40 meters,

>>> mike
>>> > gain down and with the send receive switch in the send position. All
>>> other
>>> > controls set per the table in the manual for initial transmit tuning.
>>> >
>>> > I am on the way to Radio Shack to pick up the resistors.
>>> >
>>> > Thanks
>>> >
>>> > Steve
>>> >
>>> > _____
>>> >
>>> > From: TS-520_820_530_830@yahoogroups.com
>>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
>>> > Sent: Sunday, January 29, 2006 5:32 AM
>>> > To: TS-520_820_530_830@yahoogroups.com
>>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > I am assuming the following. If I an wrong, please tell me.
>>> >
>>> > With the rig keyed in SSB, mike gain down, meter in the IP position,
>>> > no
>>> > matter where you adjust the bias pot on the back of the rig you get
>>> no IP
>>> > reading?
>>> >
>>> > Assuming the above, with the rig keyed and set as above, Measure the
>>> voltage
>>> > to ground on the terminal on each end of the Bias pot. Then place the
>>> meter
>>> > on the center terminal and see if the voltage changes as you rotate
>>> > this
>>> > control. Give me readings with this full CCW, fully CW and center.
>>> >
>>> > Unless you read 0 voltage on the center of the Bias pot in all
>>> positions,
>>> go
>>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
>>> > when
>>> you
>>> > have done this.
>>> >
>>> > Vy 73, Walt.
>>> >
>>> >
>>> > ----- Original Message -----
>>> > From: "Stephen Davis" <sdavis@...>

>>> > To: <TS-520_820_530_830@yahoogroups.com>
>>> > Sent: Saturday, January 28, 2006 9:33 PM
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > > Hello All,
>>> > >
>>> > > Update on my problem with my TS-820S radio. Still no transmit
>>> > > on
>>> the
>>> > > radio. The symptom remains the same, that is unable to get any bias
>>> > reading
>>> > > when trying to tune the rig (if I switch meter to hf position I do
>>> get a
>>> > > reading of about 850v). Thanks to Walt, these are the things tried
>>> > > so
>>> far
>>> > > in troubleshooting the radio:
>>> > >
>>> > > Checked the cathode resistors (ok).
>>> > > Checked Plate chokes for short (ok)
>>> > > Checked relay on relay board (ok, or I should say contacts are
>>> clean
>>> > > and relay moves when I switch from rec to send)
>>> > > Checked SG switch (ok)
>>> > > Filaments light in all three tubes.
>>> > > Substituted all three tubes, no change in symptoms.
>>> > >
>>> > > Any thoughts on the next steps I should take to troubleshoot
>>> > > this
>>> > would
>>> > > be appreciated. I really would like to get this rig on the air!
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve - K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: Stephen Davis [mailto:sdavis@...]
>>> > > Sent: Thursday, January 19, 2006 8:43 PM
>>> > > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > > >
>>> > > >
>>> > > Hi Walt,
>>> > > >
>>> > > You are correct, I am not getting any idle current. All tube

>>> > filaments
>>> > > are lit. I tried rotating the bias control in the back and keying
>>> > > the
>>> > send
>>> > > switch as suggested. I did not notice excessive heating at either
>>> > > end
>>> of
>>> > > the rotation.
>>> > >
>>> > > I have removed the relay housing (Omron type MH4P) from the
>>> > > relay
>>> > > board, but having trouble getting the plastic cover off. I am being
>>> very
>>> > > gentle so as not to break it, but not haveing much success. Will
>>> continue
>>> > > to try. In the meantime, just eyeballing the contacts, the contacts
>>> that
>>> > > are in the open position look very clean. I was looking a the
>>> schematic
>>> > (a
>>> > > somewhat fuzzy copy) to try and determine what voltage is used
>>> > > across
>>> the
>>> > > coil to open/close the relay, but I could not tell. I was
>>> thinking this
>>> > > could be a way to test to make sure at least the relay(s) are
>>> > > opening
>>> and
>>> > > closing. If I can determine the voltage, is this a legitimate
>>> test? I
>>> > also
>>> > > measured the resistance across the coil and it was around 380 ohms,
>>> which
>>> > is
>>> > > the resistance stamped on it, so at least I know the coil is not
>>> open or
>>> > > shorted.
>>> > >
>>> > > I will keep trying to get the plastic case off so I can
>>> > > actually
>>> > clean
>>> > > the contacts. Just wanted to update you on my progress.
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve
>>> > > K7QHU
>>> > >
>>> > > _____
>>> > >

>>> > > From: TS-520_820_530_830@yahoogroups.com
>>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
>>> > > Breining
>>> > > Sent: Thursday, January 19, 2006 12:42 PM
>>> > > To: TS-520_820_530_830@yahoogroups.com
>>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > That would indicate that you are not getting drive. And if I
>>> understand
>>> > > correctly you are also not getting any idle current. You do not
>>> > > need
>>> > drive
>>> > > to get idle current.
>>> > >
>>> > > Let's double check this. Mode on USB or LSB, all tubes installed,
>>> SG on
>>> > mike
>>> > > gain down, Filament switch on, Meter in IP. Key rig with send
>>> switch and
>>> > > watch the IP meter as you change the Bias control in the back. At
>>> > > one
>>> > > extreme the tubes should draw a lot of current. At the other
>>> extreme the
>>> > > tubes will draw little or no current. Do you get a reading on the
>>> meter
>>> > in
>>> > > any bias position. If you do it should be set for 60 MA.
>>> > >
>>> > > If you do not get a reading, do you notice a lot of heat coming
>>> from the
>>> > > final area with the bias control at one extreme or the other? If
>>> > > the
>>> bias
>>> > > was working but the meter was not, the tubes would get very hot
>>> while in
>>> > > transmit with the bias control at one extreme but not the other. If
>>> they
>>> > do
>>> > > get very hot, unkey so you do not damage the tubes.
>>> > >
>>> > > Now, check again that all tubes filaments are lighted including the
>>> 12BY7.
>>> > > Check this out in a dark room. Be careful and don't fumble into
>>> the high
>>> > > voltage!
>>> > >
>>> > > If you get no idle current, no excess heat that changes with the
>>> > > bias

>>> > > control, and all tubes are lighted, next try removing the relays and
>>> > > inspecting the contacts. Look for burned contacts. Clean them.
>>> > > Remove
>>> only
>>> > 1
>>> > > relay at a time, as they are not the same although they look alike.
>>> > >
>>> > > Now I may be making a fool of myself suggesting the relays, but in
>>> > > the
>>> > > limited time I had this afternoon, and with the very poor diagram I
>>> have,
>>> > it
>>> > > seemed that the power source for the bias goes through Q5 on the RF
>>> board
>>> > > and comes to Q5 through a relay. I did not have the time to check
>>> this
>>> > out
>>> > > thoroughly at this time, but it might be worth checking the relays.
>>> > > We
>>> are
>>> > > looking for a contact that is not conducting on transmit. Be
>>> > > careful
>>> when
>>> > > removing the covers on these relays, they are not available any
>>> > > more.
>>> > >
>>> > >
>>> > > Tell us what you find out and I will try to get a better diagram. I
>>> have
>>> > > one on hard copy, but it is not here.
>>> > >
>>> > > BTW, the rig should operate with the CW key unpluged.
>>> > >
>>> > > Vy 73, Walt N9WB
>>> > >
>>> > >
>>> > >
>>> > > ----- Original Message -----
>>> > > From: "Stephen Davis" <sdavis@...>
>>> > > To: <TS-520_820_530_830@yahoogroups.com>
>>> > > Sent: Wednesday, January 18, 2006 7:49 PM
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > > Hi Walt,
>>> > > >
>>> > > > Following your latest instructions, here are the results:
>>> > > >
>>> > > > 1. Both plate chokes show 0 ohms when measured as you described.

>>> > > >
>>> > > > 2. Putting black lead to top of choke and red lead to ground, it
>>> shows
>>> a
>>> > > low
>>> > > > resistance to start with, then builds to a high resistance (about
>>> 400k).
>>> > > >
>>> > > > 3 Putting the red lead to the top of the choke and the black lead
>>> > > > to
>>> > > ground,
>>> > > > it shows a resistance of about 400k. (somehow I must of goofed
>>> up my
>>> > > > original measurement).
>>> > > >
>>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
>>> switch to
>>> > off,
>>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch to
>>> send
>>> > > and
>>> > > > held down the cw key while adjusting the drive control
>>> through-out its
>>> > > > range. No movement of the meter.
>>> > > >
>>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead and
>>> > > > on
>>> the
>>> > > > selector switch there is a 250/1000 vdc position. I would be
>>> extremely
>>> > > > cautious making any high voltage measurements.
>>> > > >
>>> > > > Thanks again for your help. It would really be neat if we can
>>> actually
>>> > > > solve this problem!
>>> > > >
>>> > > > 73
>>> > > >
>>> > > > Steve K7QHU
>>> > > >
>>> >
>>> >
>>> >
>>> > [Non-text portions of this message have been removed]
>>> >
>>> >
>>> >
>>> >
>>> > Yahoo! Groups Links
>>> >

>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>>
>>>
>>>
>>> SPONSORED LINKS
>>> Ham radio
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
>> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>> Craft hobby
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
>> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>> Hobby and craft supply
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
>> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>>>
>>>
>>>
>>> ~~~~--
>>> YAHOO! GROUPS LINKS
>>>
>>> * Visit your group "TS-520_820_530_830
>>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>>>
>>> * To unsubscribe from this group, send an email to:
>>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>>
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>>>

>>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>>> Service <http://docs.yahoo.com/info/terms/>.
>>>
>>>
>>> ---
>>>
>>>---
>>>
>>>No virus found in this incoming message.
>>>Checked by AVG Free Edition.
>>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date: 7/02/2006
>>>
>>>
>>
>>
>>
>>
>> SPONSORED LINKS
>> Ham
>>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
>> Craft
>>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
>> Hobby
>>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>> and craft supply
>>
>> _____
>>
>> YAHOO! GROUPS LINKS
>>
>>
>>
>> * Visit your group "TS-520_820_530_830
>> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>>
>>
>> * To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>>
>>
>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service

>> <http://docs.yahoo.com/info/terms/> .
>>
>>
>> _____
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>>
>>
>

6681. RES: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 00:07:30 UTC
From: PY2FWA
Topic: 6457 Message: 6681

Hi Steve, the TS-820S use 2 relay.

One of them are next to the side botton of PA Unit....into a metal box (Blindage) .free 2 screws to have access to this relay, is very easy to find it.

73

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Stephen Davis
Enviada em: sábado, 11 de fevereiro de 2006 21:35
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hello gang,

Thanks for all the suggestions. Here are the results of the latest testing. First I verified the SG reading by doing the following:

Okay, to measure the SG point on the Rectifier board I set up the VOM as follows: Black lead plugged into the VOM socket labeled "- com" and the other end of the black lead is clipped to the chassis (ground) of the radio.
The red lead is plugged into the socket labeled " + v o m" (the o is really
the ohms sign). I use the other end to the red lead to carefully measure
the point SG. When I measure the point SG with the red lead, it deflects
the needle below the zero reading. Next, I reverse the lead by clipping
the red lead to ground and measuring point SG with the black lead and it measures 110 volts. I interpret this as being negative 110 volts.

I also noticed a measurement point labeled SG on the Final board. If I take
a measurement here (SG point on the final board) then the reading is positive 250 volts.

Next measurement was to measure the SG test point on the final board and pin
3 of the final tubes with the SG switch ON and the mode switch in the TUNE

position. Both pin 3's and the SG test point measured 0 volts

Next measurement was to measure the SG test point on the final board and pin
3 of the final tubes with the SG switch ON and the mode switch in the LSB
position. Both pin 3's and the SG test point measured Positive 250 volts.

Perhaps I confused the issue when I took the negative readings at the SG test point on the Rectifier board!

Alvaro, you mentioned a relay on the bottom of the PA board. I don't see a
relay there. I do see a metal box that is between the back of the chassis
and the PA board (right next to the SG switch). Could this be the relay?

Thanks again for all the help.

Steve - K7QHU

-----Original Message-----
From: joe sloss [mailto:k7mks@...t]
Sent: Saturday, February 11, 2006 2:28 PM
To: sdavis@...
Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250 volt range. If it is minus or negative your finals will not work correctly.

Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set to
its highest DV volt range until it is safe to use a lower range. Set meter
to read positive voltages. SG switch ON Good luck.

Joe k7mks
----- Original Message -----
From: "joe sloss" <k7mks@...>
To: <sdavis@...>
Sent: Saturday, February 11, 2006 12:40 AM
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Steve: Take a moment and carefully measure the screen grid voltage of the
> 6146 tubes when you are in the TUNE position. There is HV in there so be
> carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
>
> Joe k7mks

> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, February 10, 2006 5:48 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
>> Hello Walt/Joan/Alvaro and all,
>>
>> Walt, I did as you instructed and I measure about 270 volts one
>> resistor up from ground in the voltage divider I constructed. The
270
>> volts
>> appeared as soon as I switched power on. I left power on for about
10
>> seconds and the voltage held steady.
>>
>> Alvaro, I checked R4 on the rectifier board and it was ok. I
took a
>> measurement at the point labeled SG (which I assume stands for Screen

>> Grid)
>> and it read -110 volts. The point labeled STB measured 110 volts, the

>> point
>> 210A was about 220 volts, the point 300A was about 300 volts and the
>> point
>> marked -C was -110 volts. Looking at the rectifier board, there are
no
>> burned components and it looks pretty clean.
>>
>> Joan, I have the S2001A's in the rig, so the filament voltage
should
>> be
>> okay.
>>
>> To recap the problem, I get zero LP and zero ALC readings when
going
>> thru the tuning procedures. If I switch the meter to the HV
position, it
>> reads about 900 volts. Tuning into a dummy load confirms there is no

>> output
>> during the tuning procedure. By the way the radio receiver works
great,
>> its
>> just the transmit side that's a little sick.
>>
>> Thanks again for the help, and I will keep poking around
(safely)

>> until I hear from the group.
>>
>> Steve K7QHU
>>
>> _____
>>
>> From: TS-520_820_530_830@yahoogroups.com
>> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de
vk5kyo
>> Sent: Wednesday, February 08, 2006 7:44 AM
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>>
>>
>> Hi Steve/Walt
>>
>> 1. This is a long shot but probably worth a mention.
>> I was sitting on some nos (new old stock) 6146 replacement tubes for
>> some years before I had the opportunity to use them in a TS-520.
>> The tubes were of RCA brand with the following numbers on them -
>> 6883B/8032A/8552.
>> These tubes are identical in appearance and performance as the
6146's,
>> except they have 12 Volt filaments.
>> When I eventually used the tubes I got caught with my TS-520 not
having
>> any drive even though I could see some filaments glowing. Just not
>> getting hot enough for emissions.
>> Suppose Steve bought the radio with a set of these in it, he will
never
>> get it going unless he rewires the tubes for 12V heater operation (
and
>> then place a big caution sign on the chassis, to remind yourself of
the
>> volt changes. You don't want to plug in a brand new set of 6Volt
tubes).
>>
>> 2. From my recent repairs to a TS-830, I have made a few observations
>> which may be useful if the 820 circuitry is similar.
>> a. Bias is independant of drive/ALC. I can de-tune the Drive control
>> without affecting the bias setting.
>> b. Once the Drive control is peaked for maximum ALC, adjusting the
bias
>> pot will change the ALC reading somewhat.
>> c. You can not get an ALC reading if the 6146's are not installed.
(The
>> Anode cap does not have to be connected for an ALC reading though).
>> d. You can not get a bias reading if SG is switched off.
>>

>> If I read Steve's comment correct, below, he has more than just a
bias
>> problem. He seems to be missing drive also if not getting any ALC
>> reading.
>> Does Steve have another receiver to check if the oscillators are
running
>> and on frequency?
>> Does anyone else agree with that?
>> Have you followed Alvaro Py2FWA advise yet? (That is checking all
the
>> volages on the power supply board)
>>
>> 73
>> Joan VK5KYO
>>
>>
>>
>> Walt Breining wrote:
>>
>>> With the rig turned off and the high voltage discharged, solder the
100
>>> k
>>> resistors in series and solder one end of this string to the top of
the
>>> plate choke (where the tube plates connect.) connect the other end
to
>>> ground on the final cage. You can use a screw from the final cover
and
>>> screw
>>> it down there. Leave the tubes in. Connect your + voltmeter lead one
>>> resistor up from ground and the voltmeter - lead to chassis Ground.
Set
>>> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
>>> voltmeter or volt meter leads while doing this. Turn the power and
>>> filaments
>>> on, quickly note the meter reading, and turn the power off if the
>>> resistors
>>> start getting hot. If they do not, wait long enough for the
filaments to
>>> warm up and see if you still get voltage. Discharge the High
Voltage
>>> before you touch anything.
>>>
>>> Actually, I should have told you to get 450 K ohm resistors as I
have
>>> them
>>> running at about 2 watts here but that will be OK. Just turn the
>>> power on,
>>> get the reading, and turn the power off.

>>>
>>> You should get something around 260v DC. this should be here as soon
>>> as you
>>> turn the power on. It could drop to 0 as the tubes warm up if there
is a
>>> problem. If you read 0 volts after the first 10 seconds, do not even
>>> wait
>>> for the filaments to warm up, go ahead and kill the power to save
the
>>> resistors.
>>>
>>> This is very ball park. What we are trying to determine is whether
high
>>> voltage is getting to the top of the plate choke. This forms a
voltage
>>> / by
>>> 3 voltage divider so this test is not as dangerous as you will not
>>> have the
>>> full 800v on the volt meter or leads. The plate voltage will have to
>>> be way
>>> low or 0 to be the cause of no bias current.
>>>
>>> The resistors will probably get hot and smell rather quickly. Be
sure
>>> after
>>> you turn the power off to discharge everything before making contact
>>> with
>>> these components.
>>>
>>> Let us know what you find out and we can go on from there.
>>>
>>> Vy 73, Walt N9WB
>>>
>>>
>>>
>>> ----- Original Message -----
>>> From: "Stephen Davis" <sdavis@...>
>>> To: <TS-520_820_530_830@yahoogroups.com>
>>> Sent: Wednesday, February 08, 2006 12:19 AM
>>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>>>
>>>
>>> > Hello All,
>>> >
>>> > Update on my problematic TS-820S with no plate current
reading
>>> > and
>>> no

>>> > bias reading. I have been pretty busy the last week so haven't
had
>>> > time
>>> to
>>> > do much, however this weekend I will be able to spend some time on
it.
>>> > Seeking any and all advice on what to try next. I have the
>>> > schematics,
>>> but
>>> > translating that into useful troubleshooting information is not
going
>>> > so
>>> > well. Maybe in a couple of years if I keep at it!! In the
meantime,
>>> > I
>>> have
>>> > picked up some basic electronics books and an old book titled "How
to
>>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
>>> just get
>>> a
>>> > mind meld with the author!!
>>> >
>>> > To recap the steps taken so far (Thanks to Walt for
suggesting
>>> these!):
>>> >
>>> > Checked the cathode resistors - tested OK
>>> > Checked the plate chokes for short - tested OK
>>> > Checked the relay on the relay board - contacts clean and I can
see
>>> > the
>>> > relay work when I go from receive to send.
>>> > Checked the SG switch - OK
>>> > Filaments light in all three tubes.
>>> > Substituted all three tubes, no change in symptoms.
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center
terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > Note to Walt - I have the 1 watt 100kohm resistors that you

suggested
>>> > I
>>> pick
>>> > up. Not sure what you wanted me to try with them.
>>> >
>>> > Once again, I really appreciate all the suggestions and
encouragement
>>> > I
>>> have
>>> > received so far from this group.
>>> >
>>> > Steve K7QHU
>>> > _____
>>> >
>>> > From: Stephen Davis [mailto:sdavis@...]
>>> > Sent: Sunday, January 29, 2006 11:52 AM
>>> > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > Hi Walt,
>>> >
>>> > Your first paragraph is correct.
>>> >
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center
terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > I took measurments with mode set to lsb, band set to 40
meters,
>>> mike
>>> > gain down and with the send receive switch in the send position.
All
>>> other
>>> > controls set per the table in the manual for initial transmit
tuning.
>>> >
>>> > I am on the way to Radio Shack to pick up the resistors.
>>> >
>>> > Thanks

>>> >
>>> > Steve
>>> >
>>> > _____
>>> >
>>> > From: TS-520_820_530_830@yahoogroups.com
>>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
>>> > Sent: Sunday, January 29, 2006 5:32 AM
>>> > To: TS-520_820_530_830@yahoogroups.com
>>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > I am assuming the following. If I an wrong, please tell me.
>>> >
>>> > With the rig keyed in SSB, mike gain down, meter in the IP
position,
>>> > no
>>> > matter where you adjust the bias pot on the back of the rig you
get
>>> no IP
>>> > reading?
>>> >
>>> > Assuming the above, with the rig keyed and set as above, Measure
the
>>> voltage
>>> > to ground on the terminal on each end of the Bias pot. Then place
the
>>> meter
>>> > on the center terminal and see if the voltage changes as you
rotate
>>> > this
>>> > control. Give me readings with this full CCW, fully CW and
center.
>>> >
>>> > Unless you read 0 voltage on the center of the Bias pot in all
>>> positions,
>>> go
>>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know

>>> > when
>>> you
>>> > have done this.
>>> >
>>> > Vy 73, Walt.
>>> >
>>> >
>>> > ----- Original Message -----
>>> > From: "Stephen Davis" <sdavis@...>

>>> > To: <TS-520_820_530_830@yahoogroups.com>
>>> > Sent: Saturday, January 28, 2006 9:33 PM
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > > Hello All,
>>> > >
>>> > > Update on my problem with my TS-820S radio. Still no
transmit
>>> > > on
>>> the
>>> > > radio. The symptom remains the same, that is unable to get any
bias
>>> > reading
>>> > > when trying to tune the rig (if I switch meter to hf position I
do
>>> get a
>>> > > reading of about 850v). Thanks to Walt, these are the things
tried
>>> > > so
>>> far
>>> > > in troubleshooting the radio:
>>> > >
>>> > > Checked the cathode resistors (ok).
>>> > > Checked Plate chokes for short (ok)
>>> > > Checked relay on relay board (ok, or I should say contacts
are
>>> clean
>>> > > and relay moves when I switch from rec to send)
>>> > > Checked SG switch (ok)
>>> > > Filaments light in all three tubes.
>>> > > Substituted all three tubes, no change in symptoms.
>>> > >
>>> > > Any thoughts on the next steps I should take to
troubleshoot
>>> > > this
>>> > would
>>> > > be appreciated. I really would like to get this rig on the air!
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve - K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: Stephen Davis [mailto:sdavis@...]
>>> > > Sent: Thursday, January 19, 2006 8:43 PM
>>> > > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current

>>> Reading
>>> > >
>>> > >
>>> > > Hi Walt,
>>> > >
>>> > > You are correct, I am not getting any idle current. All
tube
>>> > filaments
>>> > > are lit. I tried rotating the bias control in the back and
keying
>>> > > the
>>> > send
>>> > > switch as suggested. I did not notice excessive heating at
either
>>> > > end
>>> of
>>> > > the rotation.
>>> > >
>>> > > I have removed the relay housing (Omron type MH4P) from the

>>> > > relay
>>> > > board, but having trouble getting the plastic cover off. I am
being
>>> very
>>> > > gentle so as not to break it, but not haveing much success.
Will
>>> continue
>>> > > to try. In the meantime, just eyeballing the contacts, the
contacts
>>> that
>>> > > are in the open position look very clean. I was looking a the
>>> schematic
>>> > (a
>>> > > somewhat fuzzy copy) to try and determine what voltage is used
>>> > > across
>>> the
>>> > > coil to open/close the relay, but I could not tell. I was
>>> thinking this
>>> > > could be a way to test to make sure at least the relay(s) are
>>> > > opening
>>> and
>>> > > closing. If I can determine the voltage, is this a legitimate
>>> test? I
>>> > also
>>> > > measured the resistance across the coil and it was around 380
ohms,
>>> which
>>> > is
>>> > > the resistance stamped on it, so at least I know the coil is not
>>> open or

>>> > > shorted.
>>> > >
>>> > > I will keep trying to get the plastic case off so I can
>>> > > actually
>>> > clean
>>> > > the contacts. Just wanted to update you on my progress.
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve
>>> > > K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: TS-520_820_530_830@yahoogroups.com
>>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
>>> > > Breining
>>> > > Sent: Thursday, January 19, 2006 12:42 PM
>>> > > To: TS-520_820_530_830@yahoogroups.com
>>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > That would indicate that you are not getting drive. And if I
>>> understand
>>> > > correctly you are also not getting any idle current. You do not
>>> > > need
>>> > drive
>>> > > to get idle current.
>>> > >
>>> > > Let's double check this. Mode on USB or LSB, all tubes
installed,
>>> SG on
>>> > mike
>>> > > gain down, Filament switch on, Meter in IP. Key rig with send
>>> switch and
>>> > > watch the IP meter as you change the Bias control in the back.
At
>>> > > one
>>> > > extreme the tubes should draw a lot of current. At the other
>>> extreme the
>>> > > tubes will draw little or no current. Do you get a reading on
the
>>> meter
>>> > in
>>> > > any bias position. If you do it should be set for 60 MA.
>>> > >
>>> > > If you do not get a reading, do you notice a lot of heat coming
>>> from the

>>> > > final area with the bias control at one extreme or the other?
If
>>> > > the
>>> bias
>>> > > was working but the meter was not, the tubes would get very hot
>>> while in
>>> > > transmit with the bias control at one extreme but not the other.
If
>>> they
>>> > do
>>> > > get very hot, unkey so you do not damage the tubes.
>>> > >
>>> > > Now, check again that all tubes filaments are lighted including
the
>>> 12BY7.
>>> > > Check this out in a dark room. Be careful and don't fumble into
>>> the high
>>> > > voltage!
>>> > >
>>> > > If you get no idle current, no excess heat that changes with the

>>> > > bias
>>> > > control, and all tubes are lighted, next try removing the relays
and
>>> > > inspecting the contacts. Look for burned contacts. Clean them.
>>> > > Remove
>>> only
>>> > 1
>>> > > relay at a time, as they are not the same although they look
alike.
>>> > >
>>> > > Now I may be making a fool of myself suggesting the relays, but
in
>>> > > the
>>> > > limited time I had this afternoon, and with the very poor
diagram I
>>> have,
>>> > it
>>> > > seemed that the power source for the bias goes through Q5 on the
RF
>>> board
>>> > > and comes to Q5 through a relay. I did not have the time to
check
>>> this
>>> > out
>>> > > thoroughly at this time, but it might be worth checking the
relays.
>>> > > We
>>> are
>>> > > looking for a contact that is not conducting on transmit. Be

>>> > > careful
>>> when
>>> > > removing the covers on these relays, they are not available any
>>> > > more.
>>> > >
>>> > >
>>> > > Tell us what you find out and I will try to get a better
diagram. I
>>> have
>>> > > one on hard copy, but it is not here.
>>> > >
>>> > > BTW, the rig should operate with the CW key unpluged.
>>> > >
>>> > > Vy 73, Walt N9WB
>>> > >
>>> > >
>>> > >
>>> > > ----- Original Message -----
>>> > > From: "Stephen Davis" <sdavis@beachnet.com>
>>> > > To: <TS-520_820_530_830@yahoogroups.com>
>>> > > Sent: Wednesday, January 18, 2006 7:49 PM
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > > Hi Walt,
>>> > > >
>>> > > > Following your latest instructions, here are the results:
>>> > > >
>>> > > > 1. Both plate chokes show 0 ohms when measured as you
described.
>>> > > >
>>> > > > 2. Putting black lead to top of choke and red lead to ground,
it
>>> shows
>>> a
>>> > > low
>>> > > > resistance to start with, then builds to a high resistance
(about
>>> 400k).
>>> > > >
>>> > > > 3 Putting the red lead to the top of the choke and the black
lead
>>> > > > to
>>> > > ground,
>>> > > > it shows a resistance of about 400k. (somehow I must of
goofed
>>> up my
>>> > > > original measurement).
>>> > > >

>>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
>>> switch to
>>> > off,
>>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send
switch to
>>> send
>>> > > and
>>> > > > held down the cw key while adjusting the drive control
>>> through-out its
>>> > > > range. No movement of the meter.
>>> > > >
>>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and
>>> > > > on
>>> the
>>> > > > selector switch there is a 250/1000 vdc position. I would be
>>> extremely
>>> > > > cautious making any high voltage measurements.
>>> > > >
>>> > > > Thanks again for your help. It would really be neat if we can
>>> actually
>>> > > > solve this problem!
>>> > > >
>>> > > > 73
>>> > > >
>>> > > > Steve K7QHU
>>> > > >
>>> >
>>> >
>>> >
>>> > [Non-text portions of this message have been removed]
>>> >
>>> >
>>> >
>>> >
>>> > Yahoo! Groups Links
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>>
>>>
>>>
>>> SPONSORED LINKS
>>> Ham radio
>>> <http://groups.yahoo.com/gads?t=ms
>>

<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s
=60&
>> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>> Craft hobby
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3
&s=6
>> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>> Hobby and craft supply
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
>>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+sup
>> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>>>
>>>
>>>
>>>

>>> YAHOO! GROUPS LINKS
>>>
>>> * Visit your group "TS-520_820_530_830
>>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
>>>
>>> * To unsubscribe from this group, send an email to:
>>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>>
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>>>

>>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>>> Service <http://docs.yahoo.com/info/terms/>.
>>>
>>>
>>>

>>>
>>>---

>>>
>>>No virus found in this incoming message.
>>>Checked by AVG Free Edition.
>>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
7/02/2006
>>>
>>>
>>
>>
>>
>>
>> SPONSORED LINKS
>> Ham
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
>> Craft
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
>> Hobby
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
>> and craft supply
>>
>> _____
>>
>> YAHOO! GROUPS LINKS
>>
>>
>>

>> * Visit your group "TS-520_820_530_830
>> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>>
>>
>> * To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>>
>>
>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
>> <http://docs.yahoo.com/info/terms/> .
>>
>>
>> _____
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>>
>>
>>
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6682. RES: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 00:16:44 UTC
From: PY2FWA
Topic: 6457 Message: 6682

Steve,

I will upload a picture of this relay on ts820s

73

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@...m
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Stephen Davis
Enviada em: sábado, 11 de fevereiro de 2006 21:35
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hello gang,

Thanks for all the suggestions. Here are the results of the latest
testing. First I verified the SG reading by doing the following:

Okay, to measure the SG point on the Rectifier board I set up the VOM as
follows: Black lead plugged into the VOM socket labeled "- com" and the
other end of the black lead is clipped to the chassis (ground) of the
radio.
The red lead is plugged into the socket labeled " + v o m" (the o is
really
the ohms sign). I use the other end to the red lead to carefully
measure
the point SG. When I measure the point SG with the red lead, it
deflects
the needle below the zero reading. Next, I reverse the lead by
clipping
the red lead to ground and measuring point SG with the black lead and it
measures 110 volts. I interpret this as being negative 110 volts.

I also noticed a measurement point labeled SG on the Final board. If I
take
a measurement here (SG point on the final board) then the reading is
positive 250 volts.

Next measurement was to measure the SG test point on the final board and
pin
3 of the final tubes with the SG switch ON and the mode switch in the
TUNE
position. Both pin 3's and the SG test point measured 0 volts

Next measurement was to measure the SG test point on the final board and pin
3 of the final tubes with the SG switch ON and the mode switch in the LSB
position. Both pin 3's and the SG test point measured Positive 250 volts.

Perhaps I confused the issue when I took the negative readings at the SG test point on the Rectifier board!

Alvaro, you mentioned a relay on the bottom of the PA board. I don't see a
relay there. I do see a metal box that is between the back of the chassis
and the PA board (right next to the SG switch). Could this be the relay?

Thanks again for all the help.

Steve - K7QHU

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Saturday, February 11, 2006 2:28 PM
To: sdavis@beachnet.com
Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250 volt range. If it is minus or negative your finals will not work correctly.

Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set to
its highest DV volt range until it is safe to use a lower range. Set meter
to read positive voltages. SG switch ON Good luck.

Joe k7mks
----- Original Message -----
From: "joe sloss" <k7mks@...>
To: <sdavis@...>
Sent: Saturday, February 11, 2006 12:40 AM
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Steve: Take a moment and carefully measure the screen grid voltage of the
> 6146 tubes when you are in the TUNE position. There is HV in there so be
> carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
>
> Joe k7mks
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...m>

> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, February 10, 2006 5:48 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
>> Hello Walt/Joan/Alvaro and all,
>>
>> Walt, I did as you instructed and I measure about 270 volts one
>> resistor up from ground in the voltage divider I constructed. The
270
>> volts
>> appeared as soon as I switched power on. I left power on for about
10
>> seconds and the voltage held steady.
>>
>> Alvaro, I checked R4 on the rectifier board and it was ok. I
took a
>> measurement at the point labeled SG (which I assume stands for Screen

>> Grid)
>> and it read -110 volts. The point labeled STB measured 110 volts, the

>> point
>> 210A was about 220 volts, the point 300A was about 300 volts and the
>> point
>> marked -C was -110 volts. Looking at the rectifier board, there are
no
>> burned components and it looks pretty clean.
>>
>> Joan, I have the S2001A's in the rig, so the filament voltage
should
>> be
>> okay.
>>
>> To recap the problem, I get zero LP and zero ALC readings when
going
>> thru the tuning procedures. If I switch the meter to the HV
position, it
>> reads about 900 volts. Tuning into a dummy load confirms there is no

>> output
>> during the tuning procedure. By the way the radio receiver works
great,
>> its
>> just the transmit side that's a little sick.
>>
>> Thanks again for the help, and I will keep poking around
(safely)
>> until I hear from the group.
>>

>> Steve K7QHU
>>
>> _____
>>
>> From: TS-520_820_530_830@yahoogroups.com
>> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de
vk5kyo
>> Sent: Wednesday, February 08, 2006 7:44 AM
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>>
>>
>> Hi Steve/Walt
>>
>> 1. This is a long shot but probably worth a mention.
>> I was sitting on some nos (new old stock) 6146 replacement tubes for
>> some years before I had the opportunity to use them in a TS-520.
>> The tubes were of RCA brand with the following numbers on them -
>> 6883B/8032A/8552.
>> These tubes are identical in appearance and performance as the
6146's,
>> except they have 12 Volt filaments.
>> When I eventually used the tubes I got caught with my TS-520 not
having
>> any drive even though I could see some filaments glowing. Just not
>> getting hot enough for emissions.
>> Suppose Steve bought the radio with a set of these in it, he will
never
>> get it going unless he rewires the tubes for 12V heater operation (
and
>> then place a big caution sign on the chassis, to remind yourself of
the
>> volt changes. You don't want to plug in a brand new set of 6Volt
tubes).
>>
>> 2. From my recent repairs to a TS-830, I have made a few observations
>> which may be useful if the 820 circuitry is similar.
>> a. Bias is independant of drive/ALC. I can de-tune the Drive control
>> without affecting the bias setting.
>> b. Once the Drive control is peaked for maximum ALC, adjusting the
bias
>> pot will change the ALC reading somewhat.
>> c. You can not get an ALC reading if the 6146's are not installed.
(The
>> Anode cap does not have to be connected for an ALC reading though).
>> d. You can not get a bias reading if SG is switched off.
>>
>> If I read Steve's comment correct, below, he has more than just a
bias

>> problem. He seems to be missing drive also if not getting any ALC
>> reading.
>> Does Steve have another receiver to check if the oscillators are
running
>> and on frequency?
>> Does anyone else agree with that?
>> Have you followed Alvaro Py2FWA advise yet? (That is checking all
the
>> volages on the power supply board)
>>
>> 73
>> Joan VK5KYO
>>
>>
>>
>> Walt Breining wrote:
>>
>>> With the rig turned off and the high voltage discharged, solder the
100
>>> k
>>> resistors in series and solder one end of this string to the top of
the
>>> plate choke (where the tube plates connect.) connect the other end
to
>>> ground on the final cage. You can use a screw from the final cover
and
>>> screw
>>> it down there. Leave the tubes in. Connect your + voltmeter lead one
>>> resistor up from ground and the voltmeter - lead to chassis Ground.
Set
>>> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
>>> voltmeter or volt meter leads while doing this. Turn the power and
>>> filaments
>>> on, quickly note the meter reading, and turn the power off if the
>>> resistors
>>> start getting hot. If they do not, wait long enough for the
filaments to
>>> warm up and see if you still get voltage. Discharge the High
Voltage
>>> before you touch anything.
>>>
>>> Actually, I should have told you to get 450 K ohm resistors as I
have
>>> them
>>> running at about 2 watts here but that will be OK. Just turn the
>>> power on,
>>> get the reading, and turn the power off.
>>>
>>> You should get something around 260v DC. this should be here as soon

>>> as you
>>> turn the power on. It could drop to 0 as the tubes warm up if there
is a
>>> problem. If you read 0 volts after the first 10 seconds, do not even

>>> wait
>>> for the filaments to warm up, go ahead and kill the power to save
the
>>> resistors.
>>>
>>> This is very ball park. What we are trying to determine is whether
high
>>> voltage is getting to the top of the plate choke. This forms a
voltage
>>> / by
>>> 3 voltage divider so this test is not as dangerous as you will not
>>> have the
>>> full 800v on the volt meter or leads. The plate voltage will have to
>>> be way
>>> low or 0 to be the cause of no bias current.
>>>
>>> The resistors will probably get hot and smell rather quickly. Be
sure
>>> after
>>> you turn the power off to discharge everything before making contact

>>> with
>>> these components.
>>>
>>> Let us know what you find out and we can go on from there.
>>>
>>> Vy 73, Walt N9WB
>>>
>>>
>>>
>>> ----- Original Message -----
>>> From: "Stephen Davis" <sdavis@...>
>>> To: <TS-520_820_530_830@yahoogroups.com>
>>> Sent: Wednesday, February 08, 2006 12:19 AM
>>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>>>
>>>
>>> > Hello All,
>>> >
>>> > Update on my problematic TS-820S with no plate current
reading
>>> > and
>>> no
>>> > bias reading. I have been pretty busy the last week so haven't
had

>>> > time
>>> to
>>> > do much, however this weekend I will be able to spend some time on
it.
>>> > Seeking any and all advice on what to try next. I have the
>>> > schematics,
>>> but
>>> > translating that into useful troubleshooting information is not
going
>>> > so
>>> > well. Maybe in a couple of years if I keep at it!! In the
meantime,
>>> > I
>>> have
>>> > picked up some basic electronics books and an old book titled "How
to
>>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
>>> just get
>>> a
>>> > mind meld with the author!!
>>> >
>>> > To recap the steps taken so far (Thanks to Walt for
suggesting
>>> these!):
>>> >
>>> > Checked the cathode resistors - tested OK
>>> > Checked the plate chokes for short - tested OK
>>> > Checked the relay on the relay board - contacts clean and I can
see
>>> > the
>>> > relay work when I go from receive to send.
>>> > Checked the SG switch - OK
>>> > Filaments light in all three tubes.
>>> > Substituted all three tubes, no change in symptoms.
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center
terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > Note to Walt - I have the 1 watt 100kohm resistors that you
suggested
>>> > I

>>> pick
>>> > up. Not sure what you wanted me to try with them.
>>> >
>>> > Once again, I really appreciate all the suggestions and
encouragement
>>> > I
>>> have
>>> > received so far from this group.
>>> >
>>> > Steve K7QHU
>>> > _____
>>> >
>>> > From: Stephen Davis [mailto:sdavis@...]
>>> > Sent: Sunday, January 29, 2006 11:52 AM
>>> > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > Hi Walt,
>>> >
>>> > Your first paragraph is correct.
>>> >
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center
terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > I took measurments with mode set to lsb, band set to 40
meters,
>>> mike
>>> > gain down and with the send receive switch in the send position.
All
>>> other
>>> > controls set per the table in the manual for initial transmit
tuning.
>>> >
>>> > I am on the way to Radio Shack to pick up the resistors.
>>> >
>>> > Thanks
>>> >
>>> > Steve

>>> >
>>> > _____
>>> >
>>> > From: TS-520_820_530_830@yahoogroups.com
>>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
>>> > Sent: Sunday, January 29, 2006 5:32 AM
>>> > To: TS-520_820_530_830@yahoogroups.com
>>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > I am assuming the following. If I an wrong, please tell me.
>>> >
>>> > With the rig keyed in SSB, mike gain down, meter in the IP
position,
>>> > no
>>> > matter where you adjust the bias pot on the back of the rig you
get
>>> no IP
>>> > reading?
>>> >
>>> > Assuming the above, with the rig keyed and set as above, Measure
the
>>> voltage
>>> > to ground on the terminal on each end of the Bias pot. Then place
the
>>> meter
>>> > on the center terminal and see if the voltage changes as you
rotate
>>> > this
>>> > control. Give me readings with this full CCW, fully CW and
center.
>>> >
>>> > Unless you read 0 voltage on the center of the Bias pot in all
>>> positions,
>>> go
>>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know

>>> > when
>>> you
>>> > have done this.
>>> >
>>> > Vy 73, Walt.
>>> >
>>> >
>>> > ----- Original Message -----
>>> > From: "Stephen Davis" <sdavis@...>
>>> > To: <TS-520_820_530_830@yahoogroups.com>
>>> > Sent: Saturday, January 28, 2006 9:33 PM

>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > > Hello All,
>>> > >
>>> > > Update on my problem with my TS-820S radio. Still no
transmit
>>> > > on
>>> the
>>> > > radio. The symptom remains the same, that is unable to get any
bias
>>> > reading
>>> > > when trying to tune the rig (if I switch meter to hf position I
do
>>> get a
>>> > > reading of about 850v). Thanks to Walt, these are the things
tried
>>> > > so
>>> far
>>> > > in troubleshooting the radio:
>>> > >
>>> > > Checked the cathode resistors (ok).
>>> > > Checked Plate chokes for short (ok)
>>> > > Checked relay on relay board (ok, or I should say contacts
are
>>> clean
>>> > > and relay moves when I switch from rec to send)
>>> > > Checked SG switch (ok)
>>> > > Filaments light in all three tubes.
>>> > > Substituted all three tubes, no change in symptoms.
>>> > >
>>> > > Any thoughts on the next steps I should take to
troubleshoot
>>> > > this
>>> > would
>>> > > be appreciated. I really would like to get this rig on the air!
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve - K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: Stephen Davis [mailto:sdavis@...]
>>> > > Sent: Thursday, January 19, 2006 8:43 PM
>>> > > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >

>>> > >
>>> > > Hi Walt,
>>> > >
>>> > > You are correct, I am not getting any idle current. All
tube
>>> > filaments
>>> > > are lit. I tried rotating the bias control in the back and
keying
>>> > > the
>>> > send
>>> > > switch as suggested. I did not notice excessive heating at
either
>>> > > end
>>> of
>>> > > the rotation.
>>> > >
>>> > > I have removed the relay housing (Omron type MH4P) from the

>>> > > relay
>>> > > board, but having trouble getting the plastic cover off. I am
being
>>> very
>>> > > gentle so as not to break it, but not haveing much success.
Will
>>> continue
>>> > > to try. In the meantime, just eyeballing the contacts, the
contacts
>>> that
>>> > > are in the open position look very clean. I was looking a the
>>> schematic
>>> > (a
>>> > > somewhat fuzzy copy) to try and determine what voltage is used
>>> > > across
>>> the
>>> > > coil to open/close the relay, but I could not tell. I was
>>> thinking this
>>> > > could be a way to test to make sure at least the relay(s) are
>>> > > opening
>>> and
>>> > > closing. If I can determine the voltage, is this a legitimate
>>> test? I
>>> > also
>>> > > measured the resistance across the coil and it was around 380
ohms,
>>> which
>>> > is
>>> > > the resistance stamped on it, so at least I know the coil is not
>>> open or
>>> > > shorted.
>>> > >

>>> > > I will keep trying to get the plastic case off so I can
>>> > > actually
>>> > clean
>>> > > the contacts. Just wanted to update you on my progress.
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve
>>> > > K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: TS-520_820_530_830@yahoogroups.com
>>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
>>> > > Breining
>>> > > Sent: Thursday, January 19, 2006 12:42 PM
>>> > > To: TS-520_820_530_830@yahoogroups.com
>>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > That would indicate that you are not getting drive. And if I
>>> understand
>>> > > correctly you are also not getting any idle current. You do not

>>> > > need
>>> > drive
>>> > > to get idle current.
>>> > >
>>> > > Let's double check this. Mode on USB or LSB, all tubes
installed,
>>> SG on
>>> > mike
>>> > > gain down, Filament switch on, Meter in IP. Key rig with send
>>> switch and
>>> > > watch the IP meter as you change the Bias control in the back.
At
>>> > > one
>>> > > extreme the tubes should draw a lot of current. At the other
>>> extreme the
>>> > > tubes will draw little or no current. Do you get a reading on
the
>>> meter
>>> > in
>>> > > any bias position. If you do it should be set for 60 MA.
>>> > >
>>> > > If you do not get a reading, do you notice a lot of heat coming
>>> from the
>>> > > final area with the bias control at one extreme or the other?
If

>>> > > the
>>> bias
>>> > > was working but the meter was not, the tubes would get very hot
>>> while in
>>> > > transmit with the bias control at one extreme but not the other.
If
>>> they
>>> > do
>>> > > get very hot, unkey so you do not damage the tubes.
>>> > >
>>> > > Now, check again that all tubes filaments are lighted including
the
>>> 12BY7.
>>> > > Check this out in a dark room. Be careful and don't fumble into
>>> the high
>>> > > voltage!
>>> > >
>>> > > If you get no idle current, no excess heat that changes with the

>>> > > bias
>>> > > control, and all tubes are lighted, next try removing the relays
and
>>> > > inspecting the contacts. Look for burned contacts. Clean them.
>>> > > Remove
>>> only
>>> > 1
>>> > > relay at a time, as they are not the same although they look
alike.
>>> > >
>>> > > Now I may be making a fool of myself suggesting the relays, but
in
>>> > > the
>>> > > limited time I had this afternoon, and with the very poor
diagram I
>>> have,
>>> > it
>>> > > seemed that the power source for the bias goes through Q5 on the
RF
>>> board
>>> > > and comes to Q5 through a relay. I did not have the time to
check
>>> this
>>> > out
>>> > > thoroughly at this time, but it might be worth checking the
relays.
>>> > > We
>>> are
>>> > > looking for a contact that is not conducting on transmit. Be
>>> > > careful
>>> when

>>> > > removing the covers on these relays, they are not available any
>>> > > more.
>>> > >
>>> > >
>>> > > Tell us what you find out and I will try to get a better
diagram. I
>>> have
>>> > > one on hard copy, but it is not here.
>>> > >
>>> > > BTW, the rig should operate with the CW key unpluged.
>>> > >
>>> > > Vy 73, Walt N9WB
>>> > >
>>> > >
>>> > >
>>> > > ----- Original Message -----
>>> > > From: "Stephen Davis" <sdavis@...>
>>> > > To: <TS-520_820_530_830@yahoogroups.com>
>>> > > Sent: Wednesday, January 18, 2006 7:49 PM
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > > Hi Walt,
>>> > > >
>>> > > > Following your latest instructions, here are the results:
>>> > > >
>>> > > > 1. Both plate chokes show 0 ohms when measured as you
described.
>>> > > >
>>> > > > 2. Putting black lead to top of choke and red lead to ground,
it
>>> shows
>>> a
>>> > > low
>>> > > > resistance to start with, then builds to a high resistance
(about
>>> 400k).
>>> > > >
>>> > > > 3 Putting the red lead to the top of the choke and the black
lead
>>> > > > to
>>> > > ground,
>>> > > > it shows a resistance of about 400k. (somehow I must of
goofed
>>> up my
>>> > > > original measurement).
>>> > > >
>>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
>>> switch to

>>> > off,
>>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send
switch to
>>> send
>>> > > and
>>> > > > held down the cw key while adjusting the drive control
>>> through-out its
>>> > > > range. No movement of the meter.
>>> > > >
>>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and
>>> > > > on
>>> the
>>> > > > selector switch there is a 250/1000 vdc position. I would be
>>> extremely
>>> > > > cautious making any high voltage measurements.
>>> > > >
>>> > > > Thanks again for your help. It would really be neat if we can
>>> actually
>>> > > > solve this problem!
>>> > > >
>>> > > > 73
>>> > > >
>>> > > > Steve K7QHU
>>> > > >
>>> >
>>> >
>>> >
>>> > [Non-text portions of this message have been removed]
>>> >
>>> >
>>> >
>>> >
>>> > Yahoo! Groups Links
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>>
>>>
>>>
>>> SPONSORED LINKS
>>> Ham radio
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob

by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s
=60&
>> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>> Craft hobby
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3
&s=6
>> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>> Hobby and craft supply
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
>>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+sup
>> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>>>
>>>
>>>
>>>

>>> YAHOO! GROUPS LINKS
>>>
>>> * Visit your group "TS-520_820_530_830
>>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
>>>
>>> * To unsubscribe from this group, send an email to:
>>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>>
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>>>
>>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>>> Service <http://docs.yahoo.com/info/terms/>.

>>>
>>>
>>>

>>>
>>>--

>>>
>>>No virus found in this incoming message.
>>>Checked by AVG Free Edition.
>>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
7/02/2006
>>>
>>>
>>
>>
>>
>>
>> SPONSORED LINKS
>> Ham
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
>> Craft
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
>> Hobby
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
>> and craft supply
>>
>> _____
>>
>> YAHOO! GROUPS LINKS
>>
>>
>>
>> * Visit your group "TS-520_820_530_830
>> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

>>
>>
>> * To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>>
>>
>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
>> <http://docs.yahoo.com/info/terms/> .
>>
>>
>> _____
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>>
>>
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6683. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 00:33:21 UTC
From: Stephen Davis
Topic: 6457 Message: 6683

Hi Alvaro,

I found it, thanks. The contacts look clean. When I switch from receive to send (function switch in the TUNE position) I can see the contacts closing. So it seems to be working. Is there a secret to removing the plasic cover. I don't want to break it.

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of PY2FWA
Sent: Saturday, February 11, 2006 5:08 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RES: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hi Steve, the TS-820S use 2 relay.

One of them are next to the side botton of PA Unit....into a metal box (Blindage) .free 2 screws to have access to this relay, is very easy to find it.

73

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Stephen Davis
Enviada em: sábado, 11 de fevereiro de 2006 21:35
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Hello gang,

Thanks for all the suggestions. Here are the results of the latest testing. First I verified the SG reading by doing the following:

Okay, to measure the SG point on the Rectifier board I set up the VOM as follows: Black lead plugged into the VOM socket labeled "- com" and the other end of the black lead is clipped to the chassis (ground) of the radio.
The red lead is plugged into the socket labeled " + v o m" (the o is really

the ohms sign). I use the other end to the red lead to carefully measure
the point SG. When I measure the point SG with the red lead, it deflects
the needle below the zero reading. Next, I reverse the lead by clipping
the red lead to ground and measuring point SG with the black lead and it
measures 110 volts. I interpret this as being negative 110 volts.

I also noticed a measurement point labeled SG on the Final board. If I take
a measurement here (SG point on the final board) then the reading is
positive 250 volts.

Next measurement was to measure the SG test point on the final board and pin
3 of the final tubes with the SG switch ON and the mode switch in the TUNE
position. Both pin 3's and the SG test point measured 0 volts

Next measurement was to measure the SG test point on the final board and pin
3 of the final tubes with the SG switch ON and the mode switch in the LSB
position. Both pin 3's and the SG test point measured Positive 250
volts.

Perhaps I confused the issue when I took the negative readings at the SG
test point on the Rectifier board!

Alvaro, you mentioned a relay on the bottom of the PA board. I don't see a
relay there. I do see a metal box that is between the back of the chassis
and the PA board (right next to the SG switch). Could this be the
relay?

Thanks again for all the help.

Steve - K7QHU

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Saturday, February 11, 2006 2:28 PM
To: sdavis@...
Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250
volt range. If it is minus or negative your finals will not work
correctly.

Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set
to

its highest DV volt range until it is safe to use a lower range. Set
meter
to read positive voltages. SG switch ON Good luck.

Joe k7mks
----- Original Message -----
From: "joe sloss" <k7mks@...>
To: <sdavis@...>
Sent: Saturday, February 11, 2006 12:40 AM
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Steve: Take a moment and carefully measure the screen grid voltage of
the
> 6146 tubes when you are in the TUNE position. There is HV in there so
be
> carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
>
> Joe k7mks
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, February 10, 2006 5:48 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>
>
>> Hello Walt/Joan/Alvaro and all,
>>
>> Walt, I did as you instructed and I measure about 270 volts one
>> resistor up from ground in the voltage divider I constructed. The
270
>> volts
>> appeared as soon as I switched power on. I left power on for about
10
>> seconds and the voltage held steady.
>>
>> Alvaro, I checked R4 on the rectifier board and it was ok. I
took a
>> measurement at the point labeled SG (which I assume stands for Screen

>> Grid)
>> and it read -110 volts. The point labeled STB measured 110 volts, the

>> point
>> 210A was about 220 volts, the point 300A was about 300 volts and the
>> point
>> marked -C was -110 volts. Looking at the rectifier board, there are
no
>> burned components and it looks pretty clean.
>>
>> Joan, I have the S2001A's in the rig, so the filament voltage

should
>> be
>> okay.
>>
>> To recap the problem, I get zero LP and zero ALC readings when
going
>> thru the tuning procedures. If I switch the meter to the HV
position, it
>> reads about 900 volts. Tuning into a dummy load confirms there is no

>> output
>> during the tuning procedure. By the way the radio receiver works
great,
>> its
>> just the transmit side that's a little sick.
>>
>> Thanks again for the help, and I will keep poking around
(safely)
>> until I hear from the group.
>>
>> Steve K7QHU
>>
>> _____
>>
>> From: TS-520_820_530_830@yahoogroups.com
>> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de
vk5kyo
>> Sent: Wednesday, February 08, 2006 7:44 AM
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>>
>>
>> Hi Steve/Walt
>>
>> 1. This is a long shot but probably worth a mention.
>> I was sitting on some nos (new old stock) 6146 replacement tubes for
>> some years before I had the opportunity to use them in a TS-520.
>> The tubes were of RCA brand with the following numbers on them -
>> 6883B/8032A/8552.
>> These tubes are identical in appearance and performance as the
6146's,
>> except they have 12 Volt filaments.
>> When I eventually used the tubes I got caught with my TS-520 not
having
>> any drive even though I could see some filaments glowing. Just not
>> getting hot enough for emissions.
>> Suppose Steve bought the radio with a set of these in it, he will
never
>> get it going unless he rewires the tubes for 12V heater operation (

and
>> then place a big caution sign on the chassis, to remind yourself of
the
>> volt changes. You don't want to plug in a brand new set of 6Volt
tubes).
>>
>> 2. From my recent repairs to a TS-830, I have made a few observations
>> which may be useful if the 820 circuitry is similar.
>> a. Bias is independant of drive/ALC. I can de-tune the Drive control
>> without affecting the bias setting.
>> b. Once the Drive control is peaked for maximum ALC, adjusting the
bias
>> pot will change the ALC reading somewhat.
>> c. You can not get an ALC reading if the 6146's are not installed.
(The
>> Anode cap does not have to be connected for an ALC reading though).
>> d. You can not get a bias reading if SG is switched off.
>>
>> If I read Steve's comment correct, below, he has more than just a
bias
>> problem. He seems to be missing drive also if not getting any ALC
>> reading.
>> Does Steve have another receiver to check if the oscillators are
running
>> and on frequency?
>> Does anyone else agree with that?
>> Have you followed Alvaro Py2FWA advise yet? (That is checking all
the
>> volages on the power supply board)
>>
>> 73
>> Joan VK5KYO
>>
>>
>>
>> Walt Breining wrote:
>>
>>> With the rig turned off and the high voltage discharged, solder the
100
>>> k
>>> resistors in series and solder one end of this string to the top of
the
>>> plate choke (where the tube plates connect.) connect the other end
to
>>> ground on the final cage. You can use a screw from the final cover
and
>>> screw
>>> it down there. Leave the tubes in. Connect your + voltmeter lead one
>>> resistor up from ground and the voltmeter - lead to chassis Ground.
Set

>>> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
>>> voltmeter or volt meter leads while doing this. Turn the power and
>>> filaments
>>> on, quickly note the meter reading, and turn the power off if the
>>> resistors
>>> start getting hot. If they do not, wait long enough for the
filaments to
>>> warm up and see if you still get voltage. Discharge the High
Voltage
>>> before you touch anything.
>>>
>>> Actually, I should have told you to get 450 K ohm resistors as I
have
>>> them
>>> running at about 2 watts here but that will be OK. Just turn the
>>> power on,
>>> get the reading, and turn the power off.
>>>
>>> You should get something around 260v DC. this should be here as soon
>>> as you
>>> turn the power on. It could drop to 0 as the tubes warm up if there
is a
>>> problem. If you read 0 volts after the first 10 seconds, do not even

>>> wait
>>> for the filaments to warm up, go ahead and kill the power to save
the
>>> resistors.
>>>
>>> This is very ball park. What we are trying to determine is whether
high
>>> voltage is getting to the top of the plate choke. This forms a
voltage
>>> / by
>>> 3 voltage divider so this test is not as dangerous as you will not
>>> have the
>>> full 800v on the volt meter or leads. The plate voltage will have to
>>> be way
>>> low or 0 to be the cause of no bias current.
>>>
>>> The resistors will probably get hot and smell rather quickly. Be
sure
>>> after
>>> you turn the power off to discharge everything before making contact

>>> with
>>> these components.
>>>
>>> Let us know what you find out and we can go on from there.
>>>

>>> Vy 73, Walt N9WB
>>>
>>>
>>>
>>> ----- Original Message -----
>>> From: "Stephen Davis" <sdavis@...>
>>> To: <TS-520_820_530_830@yahoogroups.com>
>>> Sent: Wednesday, February 08, 2006 12:19 AM
>>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
>>>
>>>
>>> > Hello All,
>>> >
>>> > Update on my problematic TS-820S with no plate current
reading
>>> > and
>>> no
>>> > bias reading. I have been pretty busy the last week so haven't
had
>>> > time
>>> to
>>> > do much, however this weekend I will be able to spend some time on
it.
>>> > Seeking any and all advice on what to try next. I have the
>>> > schematics,
>>> but
>>> > translating that into useful troubleshooting information is not
going
>>> > so
>>> > well. Maybe in a couple of years if I keep at it!! In the
meantime,
>>> > I
>>> have
>>> > picked up some basic electronics books and an old book titled "How
to
>>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
>>> just get
>>> a
>>> > mind meld with the author!!
>>> >
>>> > To recap the steps taken so far (Thanks to Walt for
suggesting
>>> these!):
>>> >
>>> > Checked the cathode resistors - tested OK
>>> > Checked the plate chokes for short - tested OK
>>> > Checked the relay on the relay board - contacts clean and I can
see
>>> > the

>>> > relay work when I go from receive to send.
>>> > Checked the SG switch - OK
>>> > Filaments light in all three tubes.
>>> > Substituted all three tubes, no change in symptoms.
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right
>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center
terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > Note to Walt - I have the 1 watt 100kohm resistors that you
suggested
>>> > I
>>> pick
>>> > up. Not sure what you wanted me to try with them.
>>> >
>>> > Once again, I really appreciate all the suggestions and
encouragement
>>> > I
>>> have
>>> > received so far from this group.
>>> >
>>> > Steve K7QHU
>>> > _____
>>> >
>>> > From: Stephen Davis [mailto:sdavis@...]
>>> > Sent: Sunday, January 29, 2006 11:52 AM
>>> > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > Hi Walt,
>>> >
>>> > Your first paragraph is correct.
>>> >
>>> > I took the following measurements at the bias pot.
>>> >
>>> > Bias pot fully counterclockwise: left terminal -95v center
>>> terminal
>>> > -105v right terminal -105v
>>> > Bias pot centered: left terminal -95v center terminal -95v
>>> right

>>> > terminal -105v
>>> > Bias pot fully clockwise left terminal -95v center
terminal
>>> -95v
>>> > right terminal -105v
>>> >
>>> > I took measurments with mode set to lsb, band set to 40
meters,
>>> mike
>>> > gain down and with the send receive switch in the send position.
All
>>> other
>>> > controls set per the table in the manual for initial transmit
tuning.
>>> >
>>> > I am on the way to Radio Shack to pick up the resistors.
>>> >
>>> > Thanks
>>> >
>>> > Steve
>>> >
>>> > _____
>>> >
>>> > From: TS-520_820_530_830@yahoogroups.com
>>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
>>> > Sent: Sunday, January 29, 2006 5:32 AM
>>> > To: TS-520_820_530_830@yahoogroups.com
>>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > I am assuming the following. If I an wrong, please tell me.
>>> >
>>> > With the rig keyed in SSB, mike gain down, meter in the IP
position,
>>> > no
>>> > matter where you adjust the bias pot on the back of the rig you
get
>>> no IP
>>> > reading?
>>> >
>>> > Assuming the above, with the rig keyed and set as above, Measure
the
>>> voltage
>>> > to ground on the terminal on each end of the Bias pot. Then place
the
>>> meter
>>> > on the center terminal and see if the voltage changes as you
rotate

>>> > this
>>> > control. Give me readings with this full CCW, fully CW and
center.
>>> >
>>> > Unless you read 0 voltage on the center of the Bias pot in all
>>> positions,
>>> go
>>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know

>>> > when
>>> you
>>> > have done this.
>>> >
>>> > Vy 73, Walt.
>>> >
>>> >
>>> > ----- Original Message -----
>>> > From: "Stephen Davis" <sdavis@...>
>>> > To: <TS-520_820_530_830@yahoogroups.com>
>>> > Sent: Saturday, January 28, 2006 9:33 PM
>>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> > Reading
>>> >
>>> >
>>> > > Hello All,
>>> > >
>>> > > Update on my problem with my TS-820S radio. Still no
transmit
>>> > > on
>>> the
>>> > > radio. The symptom remains the same, that is unable to get any
bias
>>> > reading
>>> > > when trying to tune the rig (if I switch meter to hf position I
do
>>> get a
>>> > > reading of about 850v). Thanks to Walt, these are the things
tried
>>> > > so
>>> far
>>> > > in troubleshooting the radio:
>>> > >
>>> > > Checked the cathode resistors (ok).
>>> > > Checked Plate chokes for short (ok)
>>> > > Checked relay on relay board (ok, or I should say contacts
are
>>> clean
>>> > > and relay moves when I switch from rec to send)
>>> > > Checked SG switch (ok)
>>> > > Filaments light in all three tubes.

>>> > > Substituted all three tubes, no change in symptoms.
>>> > >
>>> > > Any thoughts on the next steps I should take to
troubleshoot
>>> > > this
>>> > would
>>> > > be appreciated. I really would like to get this rig on the air!
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve - K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: Stephen Davis [mailto:sdavis@...]
>>> > > Sent: Thursday, January 19, 2006 8:43 PM
>>> > > To: 'TS-520_820_530_830@yahoogroups.com'
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > Hi Walt,
>>> > >
>>> > > You are correct, I am not getting any idle current. All
tube
>>> > filaments
>>> > > are lit. I tried rotating the bias control in the back and
keying
>>> > > the
>>> > send
>>> > > switch as suggested. I did not notice excessive heating at
either
>>> > > end
>>> of
>>> > > the rotation.
>>> > >
>>> > > I have removed the relay housing (Omron type MH4P) from the

>>> > > relay
>>> > > board, but having trouble getting the plastic cover off. I am
being
>>> very
>>> > > gentle so as not to break it, but not haveing much success.
Will
>>> continue
>>> > > to try. In the meantime, just eyeballing the contacts, the
contacts
>>> that
>>> > > are in the open position look very clean. I was looking a the
>>> schematic

>>> > (a
>>> > > somewhat fuzzy copy) to try and determine what voltage is used
>>> > > across
>>> the
>>> > > coil to open/close the relay, but I could not tell. I was
>>> thinking this
>>> > > could be a way to test to make sure at least the relay(s) are
>>> > > opening
>>> and
>>> > > closing. If I can determine the voltage, is this a legitimate
>>> test? I
>>> > also
>>> > > measured the resistance across the coil and it was around 380
ohms,
>>> which
>>> > is
>>> > > the resistance stamped on it, so at least I know the coil is not
>>> open or
>>> > > shorted.
>>> > >
>>> > > I will keep trying to get the plastic case off so I can
>>> > > actually
>>> > clean
>>> > > the contacts. Just wanted to update you on my progress.
>>> > >
>>> > > Thanks
>>> > >
>>> > > Steve
>>> > > K7QHU
>>> > >
>>> > > _____
>>> > >
>>> > > From: TS-520_820_530_830@yahoogroups.com
>>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
>>> > > Breining
>>> > > Sent: Thursday, January 19, 2006 12:42 PM
>>> > > To: TS-520_820_530_830@yahoogroups.com
>>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > That would indicate that you are not getting drive. And if I
>>> understand
>>> > > correctly you are also not getting any idle current. You do not

>>> > > need
>>> > drive
>>> > > to get idle current.
>>> > >
>>> > > Let's double check this. Mode on USB or LSB, all tubes

installed,
>>> SG on
>>> > mike
>>> > > gain down, Filament switch on, Meter in IP. Key rig with send
>>> switch and
>>> > > watch the IP meter as you change the Bias control in the back.
At
>>> > > one
>>> > > extreme the tubes should draw a lot of current. At the other
>>> extreme the
>>> > > tubes will draw little or no current. Do you get a reading on
the
>>> meter
>>> > in
>>> > > any bias position. If you do it should be set for 60 MA.
>>> > >
>>> > > If you do not get a reading, do you notice a lot of heat coming
>>> from the
>>> > > final area with the bias control at one extreme or the other?
If
>>> > > the
>>> bias
>>> > > was working but the meter was not, the tubes would get very hot
>>> while in
>>> > > transmit with the bias control at one extreme but not the other.
If
>>> they
>>> > do
>>> > > get very hot, unkey so you do not damage the tubes.
>>> > >
>>> > > Now, check again that all tubes filaments are lighted including
the
>>> 12BY7.
>>> > > Check this out in a dark room. Be careful and don't fumble into
>>> the high
>>> > > voltage!
>>> > >
>>> > > If you get no idle current, no excess heat that changes with the

>>> > > bias
>>> > > control, and all tubes are lighted, next try removing the relays
and
>>> > > inspecting the contacts. Look for burned contacts. Clean them.
>>> > > Remove
>>> only
>>> > 1
>>> > > relay at a time, as they are not the same although they look
alike.
>>> > >
>>> > > Now I may be making a fool of myself suggesting the relays, but

in
>>> > > the
>>> > > limited time I had this afternoon, and with the very poor
diagram I
>>> have,
>>> > it
>>> > > seemed that the power source for the bias goes through Q5 on the
RF
>>> board
>>> > > and comes to Q5 through a relay. I did not have the time to
check
>>> this
>>> > out
>>> > > thoroughly at this time, but it might be worth checking the
relays.
>>> > > We
>>> are
>>> > > looking for a contact that is not conducting on transmit. Be
>>> > > careful
>>> when
>>> > > removing the covers on these relays, they are not available any
>>> > > more.
>>> > >
>>> > >
>>> > > Tell us what you find out and I will try to get a better
diagram. I
>>> have
>>> > > one on hard copy, but it is not here.
>>> > >
>>> > > BTW, the rig should operate with the CW key unpluged.
>>> > >
>>> > > Vy 73, Walt N9WB
>>> > >
>>> > >
>>> > >
>>> > > ----- Original Message -----
>>> > > From: "Stephen Davis" <sdavis@...>
>>> > > To: <TS-520_820_530_830@yahoogroups.com>
>>> > > Sent: Wednesday, January 18, 2006 7:49 PM
>>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
>>> Reading
>>> > >
>>> > >
>>> > > > Hi Walt,
>>> > > >
>>> > > > Following your latest instructions, here are the results:
>>> > > >
>>> > > > 1. Both plate chokes show 0 ohms when measured as you
described.
>>> > > >

>>> > > > 2. Putting black lead to top of choke and red lead to ground,
it
>>> shows
>>> a
>>> > > low
>>> > > > resistance to start with, then builds to a high resistance
(about
>>> 400k).
>>> > > >
>>> > > > 3 Putting the red lead to the top of the choke and the black
lead
>>> > > > to
>>> > > ground,
>>> > > > it shows a resistance of about 400k. (somehow I must of
goofed
>>> up my
>>> > > > original measurement).
>>> > > >
>>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
>>> switch to
>>> > off,
>>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send
switch to
>>> send
>>> > > and
>>> > > > held down the cw key while adjusting the drive control
>>> through-out its
>>> > > > range. No movement of the meter.
>>> > > >
>>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and
>>> > > > on
>>> the
>>> > > > selector switch there is a 250/1000 vdc position. I would be
>>> extremely
>>> > > > cautious making any high voltage measurements.
>>> > > >
>>> > > > Thanks again for your help. It would really be neat if we can
>>> actually
>>> > > > solve this problem!
>>> > > >
>>> > > > 73
>>> > > >
>>> > > > Steve K7QHU
>>> > > >
>>> >
>>> >
>>> >
>>> > [Non-text portions of this message have been removed]
>>> >

>>> >
>>> >
>>> >
>>> > Yahoo! Groups Links
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >
>>>
>>>
>>>
>>> SPONSORED LINKS
>>> Ham radio
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s
=60&
>> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
>>> Craft hobby
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3
&s=6
>> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
>>> Hobby and craft supply
>>> <http://groups.yahoo.com/gads?t=ms
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio>
&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>

Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
>>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft
+sup
>> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>>>
>>>
>>>
>>>

>>> YAHOO! GROUPS LINKS
>>>
>>> * Visit your group "TS-520_820_530_830
>>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
>>>
>>> * To unsubscribe from this group, send an email to:
>>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>>
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>>>
>>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>>> Service <http://docs.yahoo.com/info/terms/>.
>>>
>>>
>>>

>>>
>>>--

>>>
>>>No virus found in this incoming message.
>>>Checked by AVG Free Edition.
>>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
7/02/2006
>>>
>>>
>>
>>
>>
>>
>> SPONSORED LINKS
>> Ham
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob>

&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
>> Craft
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
>> Hobby
>>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio>
&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
>> and craft supply
>>
>> _____
>>
>> YAHOO! GROUPS LINKS
>>
>>
>>
>> * Visit your group "TS-520_820_530_830
>> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>>
>>
>> * To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>>
>>
>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
>> <http://docs.yahoo.com/info/terms/> .
>>
>>
>> _____
>>
>>
>>
>>

>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>>
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio>
&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6684. MC-50 mic

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 03:03:57 UTC
From: Bill
Topic: 1307 Message: 6684

Does anyone happen to have (or know of) an MC-50 mic available. I prefer to find one that lacks a little in cosmetics (but works fine) to save on costs. Thanks - Bill

6685. Re: [TS-520_820_530_830] MC-50 mic

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 03:12:34 UTC
From: amfone@sbcglobal.net
Topic: 1307 Message: 6685

just saw one on ebay
not mine
sold by w8ci I think
----- Original Message -----
From: Bill
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 11, 2006 10:03 PM
Subject: [TS-520_820_530_830] MC-50 mic

Does anyone happen to have (or know of) an MC-50 mic available. I
prefer to find one that lacks a little in cosmetics (but works fine) to
save on costs. Thanks - Bill

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6686. RE: [TS-520_820_530_830] MC-50 mic

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 03:18:31 UTC
From: Stephen Davis
Topic: 1307 Message: 6686

Bill,

There is one for sale on www.qth.com for 55.00 plus 8.00 shipping.
Based on previous eBay prices this is an ok deal.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill
Sent: Saturday, February 11, 2006 8:04 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] MC-50 mic

Does anyone happen to have (or know of) an MC-50 mic available. I
prefer to find one that lacks a little in cosmetics (but works fine) to
save on costs. Thanks - Bill

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6687. Re: MC-50 mic

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 03:47:44 UTC
From: Bill
Topic: 1307 Message: 6687

Thanks! Yes, I have been watching Ebay and other swap forums, and can't quite get one for my budjet, which is why I mentioned the cosmetics. If I find one that was in a drawer, box, closet, etc, and a little scratched up but working, I could possibly get it a little cheaper. You know, I'm the typical ham!

I missed one on Ebay a few weeks back. It was beat up, but was advertised as working perfectly, and it went for $30. Assuming they were truthful about the functional parts, that was a pretty good deal. There have been others just about as close, but I missed them.

I'm not in any hurry, as my 830 is slated for surgery in a week or so (see previous postings). Thanks - Bill

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...> wrote:
>
> Bill,
>
> There is one for sale on www.qth.com for 55.00 plus 8.00 shipping.
> Based on previous eBay prices this is an ok deal.
>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@...m] On Behalf Of Bill
> Sent: Saturday, February 11, 2006 8:04 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] MC-50 mic
>
>
> Does anyone happen to have (or know of) an MC-50 mic available. I
> prefer to find one that lacks a little in cosmetics (but works fine) to
> save on costs. Thanks - Bill
>
>
>
>
>
>
> SPONSORED LINKS

> Ham
> <http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
> Craft
> <http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
> Hobby
> <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd
0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

6688. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 04:41:23 UTC
From: Walt Breining
Topic: 6457 Message: 6688

OK You are almost there. You get + 250 volts on the SG point on the final board but 0V on pin 3 of the tubes.

First, be sure that you are counting the pins correctly and you are not getting the 0V reading from pin 6. Pin one is connected to pin 4 and 6 by foil. From pin 1 count clockwise to pin 3 looking at the foil side of the board.

If you are getting 0V on pin 3 the correct voltage of + 250V is not getting to pin 3 so you have no screen voltage shutting the tube down. On the foil side of the board, orient the board so the SG pin is at the bottom. The foil that the SG pin connects to goes up and curves to the right. Just above this is another strip of foil. This strip should also have +250 V. On the top (component) side of the board, a choke coil (L2) connects these two pieces of foil together. From the second foil, a 100 ohm resistor (R6) is on top of the board going from this second foil to the foil that connects to pin 3 of one of the tubes. Again from this second foil, a jumper wire on the top of the board goes to a piece of foil on the left end of the board that connects to another 100 ohm resistor R5 that is on top of the board. This resistor goes to foil that connects to pin 3 of the other tube. Something in this circuit is open keeping the + 250 V from reaching the tubes. My first suspect will be that the choke coil L2 is open. You can unplug the rig, remove the tubes, and check L2 for continuity with your ohm meter. It should show a short of 0 ohms. Be sure to discharge both the HV and the SG pins to grounds before doing this or you can hurt yourself or fry the ohm meter.

Be sure after checking the ohms to return the meter to a voltage position so you do not later accidentally hook it to voltage while in the ohms X 1 position or you will smoke the meter.

Now if you do find that the choke is defective, get back to me before replacing it. Something else will be bad that caused it to open.

If you find that you were measuring the wrong tube pins, disregard the above, measure the correct pins and tell me what they read.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, February 11, 2006 6:34 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello gang,
>
> Thanks for all the suggestions. Here are the results of the latest

> testing. First I verified the SG reading by doing the following:
>
> Okay, to measure the SG point on the Rectifier board I set up the VOM as
> follows: Black lead plugged into the VOM socket labeled "- com" and the
> other end of the black lead is clipped to the chassis (ground) of the
radio.
> The red lead is plugged into the socket labeled " + v o m" (the o is
really
> the ohms sign). I use the other end to the red lead to carefully measure
> the point SG. When I measure the point SG with the red lead, it deflects
> the needle below the zero reading. Next, I reverse the lead by clipping
> the red lead to ground and measuring point SG with the black lead and it
> measures 110 volts. I interpret this as being negative 110 volts.
>
> I also noticed a measurement point labeled SG on the Final board. If I
take
> a measurement here (SG point on the final board) then the reading is
> positive 250 volts.
>
> Next measurement was to measure the SG test point on the final board and
pin
> 3 of the final tubes with the SG switch ON and the mode switch in the TUNE
> position. Both pin 3's and the SG test point measured 0 volts
>
> Next measurement was to measure the SG test point on the final board and
pin
> 3 of the final tubes with the SG switch ON and the mode switch in the LSB
> position. Both pin 3's and the SG test point measured Positive 250 volts.
>
> Perhaps I confused the issue when I took the negative readings at the SG
> test point on the Rectifier board!
>
> Alvaro, you mentioned a relay on the bottom of the PA board. I don't see
a
> relay there. I do see a metal box that is between the back of the chassis
> and the PA board (right next to the SG switch). Could this be the relay?
>
> Thanks again for all the help.
>
> Steve - K7QHU
>
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Saturday, February 11, 2006 2:28 PM
> To: sdavis@...
> Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
> Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250
> volt range. If it is minus or negative your finals will not work

correctly.
>
> Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set
to
> its highest DV volt range until it is safe to use a lower range. Set
meter
> to read positive voltages. SG switch ON Good luck.
>
> Joe k7mks
> ----- Original Message -----
> From: "joe sloss" <k7mks@...>
> To: <sdavis@...>
> Sent: Saturday, February 11, 2006 12:40 AM
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Steve: Take a moment and carefully measure the screen grid voltage of
the
> > 6146 tubes when you are in the TUNE position. There is HV in there so
be
> > carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
> >
> > Joe k7mks
> > ----- Original Message -----
> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, February 10, 2006 5:48 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > >> Hello Walt/Joan/Alvaro and all,
> > >>
> > >> Walt, I did as you instructed and I measure about 270 volts one
> > >> resistor up from ground in the voltage divider I constructed. The 270
> > >> volts
> > >> appeared as soon as I switched power on. I left power on for about 10
> > >> seconds and the voltage held steady.
> > >>
> > >> Alvaro, I checked R4 on the rectifier board and it was ok. I took
a
> > >> measurement at the point labeled SG (which I assume stands for Screen
> > >> Grid)
> > >> and it read -110 volts. The point labeled STB measured 110 volts, the
> > >> point
> > >> 210A was about 220 volts, the point 300A was about 300 volts and the
> > >> point
> > >> marked -C was -110 volts. Looking at the rectifier board, there are
no
> > >> burned components and it looks pretty clean.
> > >>

> >> Joan, I have the S2001A's in the rig, so the filament voltage
should
> >> be
> >> okay.
> >>
> >> To recap the problem, I get zero LP and zero ALC readings when
going
> >> thru the tuning procedures. If I switch the meter to the HV position,
it
> >> reads about 900 volts. Tuning into a dummy load confirms there is no
> >> output
> >> during the tuning procedure. By the way the radio receiver works great,
> >> its
> >> just the transmit side that's a little sick.
> >>
> >> Thanks again for the help, and I will keep poking around (safely)
> >> until I hear from the group.
> >>
> >> Steve K7QHU
> >>
> >> _____
> >>
> >> From: TS-520_820_530_830@yahoogroups.com
> >> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
> >> Sent: Wednesday, February 08, 2006 7:44 AM
> >> To: TS-520_820_530_830@yahoogroups.com
> >> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >>
> >>
> >> Hi Steve/Walt
> >>
> >> 1. This is a long shot but probably worth a mention.
> >> I was sitting on some nos (new old stock) 6146 replacement tubes for
> >> some years before I had the opportunity to use them in a TS-520.
> >> The tubes were of RCA brand with the following numbers on them -
> >> 6883B/8032A/8552.
> >> These tubes are identical in appearance and performance as the 6146's,
> >> except they have 12 Volt filaments.
> >> When I eventually used the tubes I got caught with my TS-520 not having
> >> any drive even though I could see some filaments glowing. Just not
> >> getting hot enough for emissions.
> >> Suppose Steve bought the radio with a set of these in it, he will never
> >> get it going unless he rewires the tubes for 12V heater operation (and
> >> then place a big caution sign on the chassis, to remind yourself of the
> >> volt changes. You don't want to plug in a brand new set of 6Volt
tubes).
> >>
> >> 2. From my recent repairs to a TS-830, I have made a few observations
> >> which may be useful if the 820 circuitry is similar.
> >> a. Bias is independant of drive/ALC. I can de-tune the Drive control

> >> without affecting the bias setting.
> >> b. Once the Drive control is peaked for maximum ALC, adjusting the bias
> >> pot will change the ALC reading somewhat.
> >> c. You can not get an ALC reading if the 6146's are not installed. (The
> >> Anode cap does not have to be connected for an ALC reading though).
> >> d. You can not get a bias reading if SG is switched off.
> >>
> >> If I read Steve's comment correct, below, he has more than just a bias
> >> problem. He seems to be missing drive also if not getting any ALC
> >> reading.
> >> Does Steve have another receiver to check if the oscillators are
running
> >> and on frequency?
> >> Does anyone else agree with that?
> >> Have you followed Alvaro Py2FWA advise yet? (That is checking all the
> >> volages on the power supply board)
> >>
> >> 73
> >> Joan VK5KYO
> >>
> >>
> >>
> >> Walt Breining wrote:
> >>
> >>> With the rig turned off and the high voltage discharged, solder the
100
> >>> k
> >>> resistors in series and solder one end of this string to the top of
the
> >>> plate choke (where the tube plates connect.) connect the other end to
> >>> ground on the final cage. You can use a screw from the final cover and
> >>> screw
> >>> it down there. Leave the tubes in. Connect your + voltmeter lead one
> >>> resistor up from ground and the voltmeter - lead to chassis Ground.
Set
> >>> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
> >>> voltmeter or volt meter leads while doing this. Turn the power and
> >>> filaments
> >>> on, quickly note the meter reading, and turn the power off if the
> >>> resistors
> >>> start getting hot. If they do not, wait long enough for the filaments
to
> >>> warm up and see if you still get voltage. Discharge the High
Voltage
> >>> before you touch anything.
> >>>
> >>> Actually, I should have told you to get 450 K ohm resistors as I have
> >>> them
> >>> running at about 2 watts here but that will be OK. Just turn the

> >>> power on,
> >>> get the reading, and turn the power off.
> >>>
> >>> You should get something around 260v DC. this should be here as soon
> >>> as you
> >>> turn the power on. It could drop to 0 as the tubes warm up if there is
a
> >>> problem. If you read 0 volts after the first 10 seconds, do not even
> >>> wait
> >>> for the filaments to warm up, go ahead and kill the power to save the
> >>> resistors.
> >>>
> >>> This is very ball park. What we are trying to determine is whether
high
> >>> voltage is getting to the top of the plate choke. This forms a voltage
> >>> / by
> >>> 3 voltage divider so this test is not as dangerous as you will not
> >>> have the
> >>> full 800v on the volt meter or leads. The plate voltage will have to
> >>> be way
> >>> low or 0 to be the cause of no bias current.
> >>>
> >>> The resistors will probably get hot and smell rather quickly. Be sure
> >>> after
> >>> you turn the power off to discharge everything before making contact
> >>> with
> >>> these components.
> >>>
> >>> Let us know what you find out and we can go on from there.
> >>>
> >>> Vy 73, Walt N9WB
> >>>
> >>>
> >>>
> >>> ----- Original Message -----
> >>> From: "Stephen Davis" <sdavis@...>
> >>> To: <TS-520_820_530_830@yahoogroups.com>
> >>> Sent: Wednesday, February 08, 2006 12:19 AM
> >>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >>>
> >>>
> >>> > Hello All,
> >>> >
> >>> > Update on my problematic TS-820S with no plate current reading
> >>> > and
> >>> no
> >>> > bias reading. I have been pretty busy the last week so haven't had
> >>> > time
> >>> to

> >>> > do much, however this weekend I will be able to spend some time on
it.
> >>> > Seeking any and all advice on what to try next. I have the
> >>> > schematics,
> >>> but
> >>> > translating that into useful troubleshooting information is not
going
> >>> > so
> >>> > well. Maybe in a couple of years if I keep at it!! In the
meantime,
> >>> > I
> >>> have
> >>> > picked up some basic electronics books and an old book titled "How
to
> >>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> >>> just get
> >>> a
> >>> > mind meld with the author!!
> >>> >
> >>> > To recap the steps taken so far (Thanks to Walt for suggesting
> >>> these!):
> >>> >
> >>> > Checked the cathode resistors - tested OK
> >>> > Checked the plate chokes for short - tested OK
> >>> > Checked the relay on the relay board - contacts clean and I can see
> >>> > the
> >>> > relay work when I go from receive to send.
> >>> > Checked the SG switch - OK
> >>> > Filaments light in all three tubes.
> >>> > Substituted all three tubes, no change in symptoms.
> >>> > I took the following measurements at the bias pot.
> >>> >
> >>> > Bias pot fully counterclockwise: left terminal -95v center
> >>> terminal
> >>> > -105v right terminal -105v
> >>> > Bias pot centered: left terminal -95v center terminal -95v
> >>> right
> >>> > terminal -105v
> >>> > Bias pot fully clockwise left terminal -95v center terminal
> >>> -95v
> >>> > right terminal -105v
> >>> >
> >>> > Note to Walt - I have the 1 watt 100kohm resistors that you
suggested
> >>> > I
> >>> pick
> >>> > up. Not sure what you wanted me to try with them.
> >>> >
> >>> > Once again, I really appreciate all the suggestions and
encouragement

> >>> > I
> >>> have
> >>> > received so far from this group.
> >>> >
> >>> > Steve K7QHU
> >>> > _____
> >>> >
> >>> > From: Stephen Davis [mailto:sdavis@...]
> >>> > Sent: Sunday, January 29, 2006 11:52 AM
> >>> > To: 'TS-520_820_530_830@yahoogroups.com'
> >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> > Reading
> >>> >
> >>> >
> >>> > Hi Walt,
> >>> >
> >>> > Your first paragraph is correct.
> >>> >
> >>> > I took the following measurements at the bias pot.
> >>> >
> >>> > Bias pot fully counterclockwise: left terminal -95v center
> >>> terminal
> >>> > -105v right terminal -105v
> >>> > Bias pot centered: left terminal -95v center terminal -95v
> >>> right
> >>> > terminal -105v
> >>> > Bias pot fully clockwise left terminal -95v center terminal
> >>> -95v
> >>> > right terminal -105v
> >>> >
> >>> > I took measurments with mode set to lsb, band set to 40 meters,
> >>> mike
> >>> > gain down and with the send receive switch in the send position.
All
> >>> other
> >>> > controls set per the table in the manual for initial transmit
tuning.
> >>> >
> >>> > I am on the way to Radio Shack to pick up the resistors.
> >>> >
> >>> > Thanks
> >>> >
> >>> > Steve
> >>> >
> >>> > _____
> >>> >
> >>> > From: TS-520_820_530_830@yahoogroups.com
> >>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> >>> > Sent: Sunday, January 29, 2006 5:32 AM

> >>> > To: TS-520_820_530_830@yahoogroups.com
> >>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> > Reading
> >>> >
> >>> >
> >>> > I am assuming the following. If I an wrong, please tell me.
> >>> >
> >>> > With the rig keyed in SSB, mike gain down, meter in the IP position,
> >>> > no
> >>> > matter where you adjust the bias pot on the back of the rig you get
> >>> no IP
> >>> > reading?
> >>> >
> >>> > Assuming the above, with the rig keyed and set as above, Measure the
> >>> voltage
> >>> > to ground on the terminal on each end of the Bias pot. Then place
the
> >>> meter
> >>> > on the center terminal and see if the voltage changes as you rotate
> >>> > this
> >>> > control. Give me readings with this full CCW, fully CW and center.
> >>> >
> >>> > Unless you read 0 voltage on the center of the Bias pot in all
> >>> positions,
> >>> go
> >>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
> >>> > when
> >>> you
> >>> > have done this.
> >>> >
> >>> > Vy 73, Walt.
> >>> >
> >>> >
> >>> > ----- Original Message -----
> >>> > From: "Stephen Davis" <sdavis@...>
> >>> > To: <TS-520_820_530_830@yahoogroups.com>
> >>> > Sent: Saturday, January 28, 2006 9:33 PM
> >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> > Reading
> >>> >
> >>> >
> >>> > > Hello All,
> >>> > >
> >>> > > Update on my problem with my TS-820S radio. Still no
transmit
> >>> > > on
> >>> the
> >>> > > radio. The symptom remains the same, that is unable to get any
bias
> >>> > reading

> >>> > > when trying to tune the rig (if I switch meter to hf position I do
> >>> get a
> >>> > > reading of about 850v). Thanks to Walt, these are the things
tried
> >>> > > so
> >>> far
> >>> > > in troubleshooting the radio:
> >>> > >
> >>> > > Checked the cathode resistors (ok).
> >>> > > Checked Plate chokes for short (ok)
> >>> > > Checked relay on relay board (ok, or I should say contacts
are
> >>> clean
> >>> > > and relay moves when I switch from rec to send)
> >>> > > Checked SG switch (ok)
> >>> > > Filaments light in all three tubes.
> >>> > > Substituted all three tubes, no change in symptoms.
> >>> > >
> >>> > > Any thoughts on the next steps I should take to troubleshoot
> >>> > > this
> >>> > would
> >>> > > be appreciated. I really would like to get this rig on the air!
> >>> > >
> >>> > > Thanks
> >>> > >
> >>> > > Steve - K7QHU
> >>> > >
> >>> > > _____
> >>> > >
> >>> > > From: Stephen Davis [mailto:sdavis@...]
> >>> > > Sent: Thursday, January 19, 2006 8:43 PM
> >>> > > To: 'TS-520_820_530_830@yahoogroups.com'
> >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> Reading
> >>> > >
> >>> > >
> >>> > > Hi Walt,
> >>> > >
> >>> > > You are correct, I am not getting any idle current. All tube
> >>> > filaments
> >>> > > are lit. I tried rotating the bias control in the back and keying
> >>> > > the
> >>> > send
> >>> > > switch as suggested. I did not notice excessive heating at either
> >>> > > end
> >>> of
> >>> > > the rotation.
> >>> > >
> >>> > > I have removed the relay housing (Omron type MH4P) from the
> >>> > > relay

> >>> > > board, but having trouble getting the plastic cover off. I am
being
> >>> very
> >>> > > gentle so as not to break it, but not haveing much success. Will
> >>> continue
> >>> > > to try. In the meantime, just eyeballing the contacts, the
contacts
> >>> that
> >>> > > are in the open position look very clean. I was looking a the
> >>> schematic
> >>> > (a
> >>> > > somewhat fuzzy copy) to try and determine what voltage is used
> >>> > > across
> >>> the
> >>> > > coil to open/close the relay, but I could not tell. I was
> >>> thinking this
> >>> > > could be a way to test to make sure at least the relay(s) are
> >>> > > opening
> >>> and
> >>> > > closing. If I can determine the voltage, is this a legitimate
> >>> test? I
> >>> > also
> >>> > > measured the resistance across the coil and it was around 380
ohms,
> >>> which
> >>> > is
> >>> > > the resistance stamped on it, so at least I know the coil is not
> >>> open or
> >>> > > shorted.
> >>> > >
> >>> > > I will keep trying to get the plastic case off so I can
> >>> > > actually
> >>> > clean
> >>> > > the contacts. Just wanted to update you on my progress.
> >>> > >
> >>> > > Thanks
> >>> > >
> >>> > > Steve
> >>> > > K7QHU
> >>> > >
> >>> > > _____
> >>> > >
> >>> > > From: TS-520_820_530_830@yahoogroups.com
> >>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
> >>> > > Breining
> >>> > > Sent: Thursday, January 19, 2006 12:42 PM
> >>> > > To: TS-520_820_530_830@yahoogroups.com
> >>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> Reading
> >>> > >

> >>> > >
> >>> > > That would indicate that you are not getting drive. And if I
> >>> understand
> >>> > > correctly you are also not getting any idle current. You do not
> >>> > > need
> >>> > drive
> >>> > > to get idle current.
> >>> > >
> >>> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> >>> SG on
> >>> > mike
> >>> > > gain down, Filament switch on, Meter in IP. Key rig with send
> >>> switch and
> >>> > > watch the IP meter as you change the Bias control in the back. At
> >>> > > one
> >>> > > extreme the tubes should draw a lot of current. At the other
> >>> extreme the
> >>> > > tubes will draw little or no current. Do you get a reading on the
> >>> meter
> >>> > in
> >>> > > any bias position. If you do it should be set for 60 MA.
> >>> > >
> >>> > > If you do not get a reading, do you notice a lot of heat coming
> >>> from the
> >>> > > final area with the bias control at one extreme or the other? If
> >>> > > the
> >>> bias
> >>> > > was working but the meter was not, the tubes would get very hot
> >>> while in
> >>> > > transmit with the bias control at one extreme but not the other.
If
> >>> they
> >>> > do
> >>> > > get very hot, unkey so you do not damage the tubes.
> >>> > >
> >>> > > Now, check again that all tubes filaments are lighted including
the
> >>> 12BY7.
> >>> > > Check this out in a dark room. Be careful and don't fumble into
> >>> the high
> >>> > > voltage!
> >>> > >
> >>> > > If you get no idle current, no excess heat that changes with the
> >>> > > bias
> >>> > > control, and all tubes are lighted, next try removing the relays
and
> >>> > > inspecting the contacts. Look for burned contacts. Clean them.
> >>> > > Remove
> >>> only
> >>> > 1

> >>> > > relay at a time, as they are not the same although they look
alike.
> >>> > >
> >>> > > Now I may be making a fool of myself suggesting the relays, but in
> >>> > > the
> >>> > > limited time I had this afternoon, and with the very poor diagram
I
> >>> have,
> >>> > it
> >>> > > seemed that the power source for the bias goes through Q5 on the
RF
> >>> board
> >>> > > and comes to Q5 through a relay. I did not have the time to check
> >>> this
> >>> > out
> >>> > > thoroughly at this time, but it might be worth checking the
relays.
> >>> > > We
> >>> are
> >>> > > looking for a contact that is not conducting on transmit. Be
> >>> > > careful
> >>> when
> >>> > > removing the covers on these relays, they are not available any
> >>> > > more.
> >>> > >
> >>> > >
> >>> > > Tell us what you find out and I will try to get a better diagram.
I
> >>> have
> >>> > > one on hard copy, but it is not here.
> >>> > >
> >>> > > BTW, the rig should operate with the CW key unpluged.
> >>> > >
> >>> > > Vy 73, Walt N9WB
> >>> > >
> >>> > >
> >>> > >
> >>> > > ----- Original Message -----
> >>> > > From: "Stephen Davis" <sdavis@...>
> >>> > > To: <TS-520_820_530_830@yahoogroups.com>
> >>> > > Sent: Wednesday, January 18, 2006 7:49 PM
> >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> Reading
> >>> > >
> >>> > >
> >>> > > > Hi Walt,
> >>> > > >
> >>> > > > Following your latest instructions, here are the results:
> >>> > > >
> >>> > > > 1. Both plate chokes show 0 ohms when measured as you described.

> >>> > > >
> >>> > > > 2. Putting black lead to top of choke and red lead to ground, it
> >>> shows
> >>> a
> >>> > > low
> >>> > > > resistance to start with, then builds to a high resistance
(about
> >>> 400k).
> >>> > > >
> >>> > > > 3 Putting the red lead to the top of the choke and the black
lead
> >>> > > > to
> >>> > > ground,
> >>> > > > it shows a resistance of about 400k. (somehow I must of goofed
> >>> up my
> >>> > > > original measurement).
> >>> > > >
> >>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> >>> switch to
> >>> > off,
> >>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch
to
> >>> send
> >>> > > and
> >>> > > > held down the cw key while adjusting the drive control
> >>> through-out its
> >>> > > > range. No movement of the meter.
> >>> > > >
> >>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and
> >>> > > > on
> >>> the
> >>> > > > selector switch there is a 250/1000 vdc position. I would be
> >>> extremely
> >>> > > > cautious making any high voltage measurements.
> >>> > > >
> >>> > > > Thanks again for your help. It would really be neat if we can
> >>> actually
> >>> > > > solve this problem!
> >>> > > >
> >>> > > > 73
> >>> > > >
> >>> > > > Steve K7QHU
> >>> > > >
> >>> >
> >>> >
> >>> >
> >>> > [Non-text portions of this message have been removed]
> >>> >
> >>> >

> >>> >
> >>> >
> >>> > Yahoo! Groups Links
> >>> >
> >>> >
> >>> >
> >>> >
> >>> >
> >>> >
> >>> >
> >>>
> >>>
> >>>
> >>> SPONSORED LINKS
> >>> Ham radio
> >>> <http://groups.yahoo.com/gads?t=ms
> >>
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> >>
>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
> >> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
> >>> Craft hobby
> >>> <http://groups.yahoo.com/gads?t=ms
> >>
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> >>
>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
> >> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> >>> Hobby and craft supply
> >>> <http://groups.yahoo.com/gads?t=ms
> >>
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >>
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >>
>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
> >> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >>>
> >>>
> >>>
>

>>> --
> >>> YAHOO! GROUPS LINKS
> >>>
> >>> * Visit your group "TS-520_820_530_830
> >>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
> >>>
> >>> * To unsubscribe from this group, send an email to:
> >>> TS-520_820_530_830-unsubscribe@yahoogroups.com
> >>>
> >>
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >>>
> >>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> >>> Service <http://docs.yahoo.com/info/terms/>.
> >>>
> >>>
>
>>> --
> >>>
>
>>>--
> >>>
> >>>No virus found in this incoming message.
> >>>Checked by AVG Free Edition.
> >>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
7/02/2006
> >>>
> >>>
> >>
> >>
> >>
> >>
> >> SPONSORED LINKS
> >> Ham
> >>
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> >> Craft
> >>
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> >> Hobby
> >>
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >>
>

Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >> and craft supply
> >>
> >> _____
> >>
> >> YAHOO! GROUPS LINKS
> >>
> >>
> >>
> >> * Visit your group "TS-520_820_530_830
> >> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> >>
> >>
> >> * To unsubscribe from this group, send an email to:
> >> TS-520_820_530_830-unsubscribe@yahoogroups.com
> >>
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >>
> >>
> >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> >> <http://docs.yahoo.com/info/terms/> .
> >>
> >>
> >> _____
> >>
> >>
> >>
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >>
> >>
> >>
> >> Yahoo! Groups Links
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> > >
>
>
>
>
>
>
> Yahoo! Groups Links

>
>
>
>
>
>
>

6689. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 04:56:38 UTC
From: Stephen Davis
Topic: 6457 Message: 6689

Hi Walt,

I took two measurements under different conditions on pin 3 of the finals and the SG test point on the final board.

The first measurement was done with the function switch in the LSB position. In this scenario, I measure about 250 volts on the pin 3's and 250 volts on the SG test point.

The second measurement was done with the function switch in the TUNE position. In this scenario I measure Zero volts on the pin 3's and Zero volts on the SG test point.

So it seems that switching the mode switch from LSB to TUNE causes the loss of voltage on pin 3 of the final tubes and at the SG test point. This may be normal, but I am not sure.

Thanks for your patience and help.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Saturday, February 11, 2006 9:41 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

OK You are almost there. You get + 250 volts on the SG point on the final board but 0V on pin 3 of the tubes.

First, be sure that you are counting the pins correctly and you are not getting the 0V reading from pin 6. Pin one is connected to pin 4 and 6 by foil. From pin 1 count clockwise to pin 3 looking at the foil side of the board.

If you are getting 0V on pin 3 the correct voltage of + 250V is not getting to pin 3 so you have no screen voltage shutting the tube down. On the foil side of the board, orient the board so the SG pin is at the bottom. The foil that the SG pin connects to goes up and curves to the right. Just above this is another strip of foil. This strip should also have +250 V. On the top (component) side of the board, a choke coil (L2) connects these two pieces of foil together. From the second foil, a 100 ohm resistor (R6) is on top of the board going from this second foil to the foil that connects to pin 3 of one of the tubes. Again from this second foil, a jumper wire on the top of the board goes to a piece of foil on the left end of the board that connects to another 100 ohm resistor R5 that is on top of the board. This resistor

goes to foil that connects to pin 3 of the other tube. Something in this circuit is open keeping the + 250 V from reaching the tubes. My first suspect will be that the choke coil L2 is open. You can unplug the rig, remove the tubes, and check L2 for continuity with your ohm meter. It should show a short of 0 ohms. Be sure to discharge both the HV and the SG pins to grounds before doing this or you can hurt yourself or fry the ohm meter.

Be sure after checking the ohms to return the meter to a voltage position so you do not later accidentally hook it to voltage while in the ohms X 1 position or you will smoke the meter.

Now if you do find that the choke is defective, get back to me before replacing it. Something else will be bad that caused it to open.

If you find that you were measuring the wrong tube pins, disregard the above, measure the correct pins and tell me what they read.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, February 11, 2006 6:34 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hello gang,
>
> Thanks for all the suggestions. Here are the results of the latest
> testing. First I verified the SG reading by doing the following:
>
> Okay, to measure the SG point on the Rectifier board I set up the VOM as
> follows: Black lead plugged into the VOM socket labeled "- com" and the
> other end of the black lead is clipped to the chassis (ground) of the
radio.
> The red lead is plugged into the socket labeled " + v o m" (the o is
really
> the ohms sign). I use the other end to the red lead to carefully measure
> the point SG. When I measure the point SG with the red lead, it deflects
> the needle below the zero reading. Next, I reverse the lead by clipping
> the red lead to ground and measuring point SG with the black lead and it
> measures 110 volts. I interpret this as being negative 110 volts.
>
> I also noticed a measurement point labeled SG on the Final board. If I
take
> a measurement here (SG point on the final board) then the reading is
> positive 250 volts.
>
> Next measurement was to measure the SG test point on the final board and
pin
> 3 of the final tubes with the SG switch ON and the mode switch in the TUNE
> position. Both pin 3's and the SG test point measured 0 volts
>

> Next measurement was to measure the SG test point on the final board and
pin
> 3 of the final tubes with the SG switch ON and the mode switch in the LSB
> position. Both pin 3's and the SG test point measured Positive 250 volts.
>
> Perhaps I confused the issue when I took the negative readings at the SG
> test point on the Rectifier board!
>
> Alvaro, you mentioned a relay on the bottom of the PA board. I don't see
a
> relay there. I do see a metal box that is between the back of the chassis
> and the PA board (right next to the SG switch). Could this be the relay?
>
> Thanks again for all the help.
>
> Steve - K7QHU
>
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Saturday, February 11, 2006 2:28 PM
> To: sdavis@...
> Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
> Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250
> volt range. If it is minus or negative your finals will not work
correctly.
>
> Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set
to
> its highest DV volt range until it is safe to use a lower range. Set
meter
> to read positive voltages. SG switch ON Good luck.
>
> Joe k7mks
> ----- Original Message -----
> From: "joe sloss" <k7mks@...>
> To: <sdavis@...>
> Sent: Saturday, February 11, 2006 12:40 AM
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Steve: Take a moment and carefully measure the screen grid voltage of
the
> > 6146 tubes when you are in the TUNE position. There is HV in there so
be
> > carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
> >
> > Joe k7mks
> > ----- Original Message -----

> > From: "Stephen Davis" <sdavis@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Friday, February 10, 2006 5:48 PM
> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> >> Hello Walt/Joan/Alvaro and all,
> >>
> >> Walt, I did as you instructed and I measure about 270 volts one
> >> resistor up from ground in the voltage divider I constructed. The 270
> >> volts
> >> appeared as soon as I switched power on. I left power on for about 10
> >> seconds and the voltage held steady.
> >>
> >> Alvaro, I checked R4 on the rectifier board and it was ok. I took
a
> >> measurement at the point labeled SG (which I assume stands for Screen
> >> Grid)
> >> and it read -110 volts. The point labeled STB measured 110 volts, the
> >> point
> >> 210A was about 220 volts, the point 300A was about 300 volts and the
> >> point
> >> marked -C was -110 volts. Looking at the rectifier board, there are
no
> >> burned components and it looks pretty clean.
> >>
> >> Joan, I have the S2001A's in the rig, so the filament voltage
should
> >> be
> >> okay.
> >>
> >> To recap the problem, I get zero LP and zero ALC readings when
going
> >> thru the tuning procedures. If I switch the meter to the HV position,
it
> >> reads about 900 volts. Tuning into a dummy load confirms there is no
> >> output
> >> during the tuning procedure. By the way the radio receiver works great,
> >> its
> >> just the transmit side that's a little sick.
> >>
> >> Thanks again for the help, and I will keep poking around (safely)
> >> until I hear from the group.
> >>
> >> Steve K7QHU
> >>
> >> _____
> >>
> >> From: TS-520_820_530_830@yahoogroups.com
> >> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo

> >> Sent: Wednesday, February 08, 2006 7:44 AM
> >> To: TS-520_820_530_830@yahoogroups.com
> >> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >>
> >>
> >> Hi Steve/Walt
> >>
> >> 1. This is a long shot but probably worth a mention.
> >> I was sitting on some nos (new old stock) 6146 replacement tubes for
> >> some years before I had the opportunity to use them in a TS-520.
> >> The tubes were of RCA brand with the following numbers on them -
> >> 6883B/8032A/8552.
> >> These tubes are identical in appearance and performance as the 6146's,
> >> except they have 12 Volt filaments.
> >> When I eventually used the tubes I got caught with my TS-520 not having
> >> any drive even though I could see some filaments glowing. Just not
> >> getting hot enough for emissions.
> >> Suppose Steve bought the radio with a set of these in it, he will never
> >> get it going unless he rewires the tubes for 12V heater operation (and
> >> then place a big caution sign on the chassis, to remind yourself of the
> >> volt changes. You don't want to plug in a brand new set of 6Volt
tubes).
> >>
> >> 2. From my recent repairs to a TS-830, I have made a few observations
> >> which may be useful if the 820 circuitry is similar.
> >> a. Bias is independant of drive/ALC. I can de-tune the Drive control
> >> without affecting the bias setting.
> >> b. Once the Drive control is peaked for maximum ALC, adjusting the bias
> >> pot will change the ALC reading somewhat.
> >> c. You can not get an ALC reading if the 6146's are not installed. (The
> >> Anode cap does not have to be connected for an ALC reading though).
> >> d. You can not get a bias reading if SG is switched off.
> >>
> >> If I read Steve's comment correct, below, he has more than just a bias
> >> problem. He seems to be missing drive also if not getting any ALC
> >> reading.
> >> Does Steve have another receiver to check if the oscillators are
running
> >> and on frequency?
> >> Does anyone else agree with that?
> >> Have you followed Alvaro Py2FWA advise yet? (That is checking all the
> >> volages on the power supply board)
> >>
> >> 73
> >> Joan VK5KYO
> >>
> >>
> >>
> >> Walt Breining wrote:
> >>

> >>> With the rig turned off and the high voltage discharged, solder the
100
> >>> k
> >>> resistors in series and solder one end of this string to the top of
the
> >>> plate choke (where the tube plates connect.) connect the other end to
> >>> ground on the final cage. You can use a screw from the final cover and
> >>> screw
> >>> it down there. Leave the tubes in. Connect your + voltmeter lead one
> >>> resistor up from ground and the voltmeter - lead to chassis Ground.
Set
> >>> your voltmeter to a scale that will read about 300 VDC. Do not hold
the
> >>> voltmeter or volt meter leads while doing this. Turn the power and
> >>> filaments
> >>> on, quickly note the meter reading, and turn the power off if the
> >>> resistors
> >>> start getting hot. If they do not, wait long enough for the filaments
to
> >>> warm up and see if you still get voltage. Discharge the High
Voltage
> >>> before you touch anything.
> >>>
> >>> Actually, I should have told you to get 450 K ohm resistors as I have
> >>> them
> >>> running at about 2 watts here but that will be OK. Just turn the
> >>> power on,
> >>> get the reading, and turn the power off.
> >>>
> >>> You should get something around 260v DC. this should be here as soon
> >>> as you
> >>> turn the power on. It could drop to 0 as the tubes warm up if there is
a
> >>> problem. If you read 0 volts after the first 10 seconds, do not even
> >>> wait
> >>> for the filaments to warm up, go ahead and kill the power to save the
> >>> resistors.
> >>>
> >>> This is very ball park. What we are trying to determine is whether
high
> >>> voltage is getting to the top of the plate choke. This forms a voltage
> >>> / by
> >>> 3 voltage divider so this test is not as dangerous as you will not
> >>> have the
> >>> full 800v on the volt meter or leads. The plate voltage will have to
> >>> be way
> >>> low or 0 to be the cause of no bias current.
> >>>
> >>> The resistors will probably get hot and smell rather quickly. Be sure
> >>> after

> >>> you turn the power off to discharge everything before making contact
> >>> with
> >>> these components.
> >>>
> >>> Let us know what you find out and we can go on from there.
> >>>
> >>> Vy 73, Walt N9WB
> >>>
> >>>
> >>>
> >>> ----- Original Message -----
> >>> From: "Stephen Davis" <sdavis@...>
> >>> To: <TS-520_820_530_830@yahoogroups.com>
> >>> Sent: Wednesday, February 08, 2006 12:19 AM
> >>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> >>>
> >>>
> >>> > Hello All,
> >>> >
> >>> > Update on my problematic TS-820S with no plate current reading
> >>> > and
> >>> no
> >>> > bias reading. I have been pretty busy the last week so haven't had
> >>> > time
> >>> to
> >>> > do much, however this weekend I will be able to spend some time on
it.
> >>> > Seeking any and all advice on what to try next. I have the
> >>> > schematics,
> >>> but
> >>> > translating that into useful troubleshooting information is not
going
> >>> > so
> >>> > well. Maybe in a couple of years if I keep at it!! In the
meantime,
> >>> > I
> >>> have
> >>> > picked up some basic electronics books and an old book titled "How
to
> >>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> >>> just get
> >>> a
> >>> > mind meld with the author!!
> >>> >
> >>> > To recap the steps taken so far (Thanks to Walt for suggesting
> >>> these!):
> >>> >
> >>> > Checked the cathode resistors - tested OK
> >>> > Checked the plate chokes for short - tested OK

> >>> > Checked the relay on the relay board - contacts clean and I can see
> >>> > the
> >>> > relay work when I go from receive to send.
> >>> > Checked the SG switch - OK
> >>> > Filaments light in all three tubes.
> >>> > Substituted all three tubes, no change in symptoms.
> >>> > I took the following measurements at the bias pot.
> >>> >
> >>> > Bias pot fully counterclockwise: left terminal -95v center
> >>> terminal
> >>> > -105v right terminal -105v
> >>> > Bias pot centered: left terminal -95v center terminal -95v
> >>> right
> >>> > terminal -105v
> >>> > Bias pot fully clockwise left terminal -95v center terminal
> >>> -95v
> >>> > right terminal -105v
> >>> >
> >>> > Note to Walt - I have the 1 watt 100kohm resistors that you
suggested
> >>> > I
> >>> pick
> >>> > up. Not sure what you wanted me to try with them.
> >>> >
> >>> > Once again, I really appreciate all the suggestions and
encouragement
> >>> > I
> >>> have
> >>> > received so far from this group.
> >>> >
> >>> > Steve K7QHU
> >>> > _____
> >>> >
> >>> > From: Stephen Davis [mailto:sdavis@...]
> >>> > Sent: Sunday, January 29, 2006 11:52 AM
> >>> > To: 'TS-520_820_530_830@yahoogroups.com'
> >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> > Reading
> >>> >
> >>> >
> >>> > Hi Walt,
> >>> >
> >>> > Your first paragraph is correct.
> >>> >
> >>> > I took the following measurements at the bias pot.
> >>> >
> >>> > Bias pot fully counterclockwise: left terminal -95v center
> >>> terminal
> >>> > -105v right terminal -105v
> >>> > Bias pot centered: left terminal -95v center terminal -95v

> >>> right
> >>> > terminal -105v
> >>> > Bias pot fully clockwise left terminal -95v center terminal
> >>> -95v
> >>> > right terminal -105v
> >>> >
> >>> > I took measurments with mode set to lsb, band set to 40 meters,
> >>> mike
> >>> > gain down and with the send receive switch in the send position.
All
> >>> other
> >>> > controls set per the table in the manual for initial transmit
tuning.
> >>> >
> >>> > I am on the way to Radio Shack to pick up the resistors.
> >>> >
> >>> > Thanks
> >>> >
> >>> > Steve
> >>> >
> >>> > _____
> >>> >
> >>> > From: TS-520_820_530_830@yahoogroups.com
> >>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> >>> > Sent: Sunday, January 29, 2006 5:32 AM
> >>> > To: TS-520_820_530_830@yahoogroups.com
> >>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> > Reading
> >>> >
> >>> >
> >>> > I am assuming the following. If I an wrong, please tell me.
> >>> >
> >>> > With the rig keyed in SSB, mike gain down, meter in the IP position,
> >>> > no
> >>> > matter where you adjust the bias pot on the back of the rig you get
> >>> no IP
> >>> > reading?
> >>> >
> >>> > Assuming the above, with the rig keyed and set as above, Measure the
> >>> voltage
> >>> > to ground on the terminal on each end of the Bias pot. Then place
the
> >>> meter
> >>> > on the center terminal and see if the voltage changes as you rotate
> >>> > this
> >>> > control. Give me readings with this full CCW, fully CW and center.
> >>> >
> >>> > Unless you read 0 voltage on the center of the Bias pot in all
> >>> positions,

> >>> go
> >>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
> >>> > when
> >>> you
> >>> > have done this.
> >>> >
> >>> > Vy 73, Walt.
> >>> >
> >>> >
> >>> > ----- Original Message -----
> >>> > From: "Stephen Davis" <sdavis@...>
> >>> > To: <TS-520_820_530_830@yahoogroups.com>
> >>> > Sent: Saturday, January 28, 2006 9:33 PM
> >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> > Reading
> >>> >
> >>> >
> >>> > > Hello All,
> >>> > >
> >>> > > Update on my problem with my TS-820S radio. Still no
transmit
> >>> > > on
> >>> the
> >>> > > radio. The symptom remains the same, that is unable to get any
bias
> >>> > reading
> >>> > > when trying to tune the rig (if I switch meter to hf position I do
> >>> get a
> >>> > > reading of about 850v). Thanks to Walt, these are the things
tried
> >>> > > so
> >>> far
> >>> > > in troubleshooting the radio:
> >>> > >
> >>> > > Checked the cathode resistors (ok).
> >>> > > Checked Plate chokes for short (ok)
> >>> > > Checked relay on relay board (ok, or I should say contacts
are
> >>> clean
> >>> > > and relay moves when I switch from rec to send)
> >>> > > Checked SG switch (ok)
> >>> > > Filaments light in all three tubes.
> >>> > > Substituted all three tubes, no change in symptoms.
> >>> > >
> >>> > > Any thoughts on the next steps I should take to troubleshoot
> >>> > > this
> >>> > would
> >>> > > be appreciated. I really would like to get this rig on the air!
> >>> > >
> >>> > > Thanks

> >>> > >
> >>> > > Steve - K7QHU
> >>> > >
> >>> > > _____
> >>> > >
> >>> > > From: Stephen Davis [mailto:sdavis@...]
> >>> > > Sent: Thursday, January 19, 2006 8:43 PM
> >>> > > To: 'TS-520_820_530_830@yahoogroups.com'
> >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> Reading
> >>> > >
> >>> > >
> >>> > > Hi Walt,
> >>> > >
> >>> > > You are correct, I am not getting any idle current. All tube
> >>> > filaments
> >>> > > are lit. I tried rotating the bias control in the back and keying
> >>> > > the
> >>> > send
> >>> > > switch as suggested. I did not notice excessive heating at either
> >>> > > end
> >>> of
> >>> > > the rotation.
> >>> > >
> >>> > > I have removed the relay housing (Omron type MH4P) from the
> >>> > > relay
> >>> > > board, but having trouble getting the plastic cover off. I am
being
> >>> very
> >>> > > gentle so as not to break it, but not haveing much success. Will
> >>> continue
> >>> > > to try. In the meantime, just eyeballing the contacts, the
contacts
> >>> that
> >>> > > are in the open position look very clean. I was looking a the
> >>> schematic
> >>> > (a
> >>> > > somewhat fuzzy copy) to try and determine what voltage is used
> >>> > > across
> >>> the
> >>> > > coil to open/close the relay, but I could not tell. I was
> >>> thinking this
> >>> > > could be a way to test to make sure at least the relay(s) are
> >>> > > opening
> >>> and
> >>> > > closing. If I can determine the voltage, is this a legitimate
> >>> test? I
> >>> > also
> >>> > > measured the resistance across the coil and it was around 380
ohms,

> >>> which
> >>> > is
> >>> > > the resistance stamped on it, so at least I know the coil is not
> >>> open or
> >>> > > shorted.
> >>> > >
> >>> > > I will keep trying to get the plastic case off so I can
> >>> > > actually
> >>> > clean
> >>> > > the contacts. Just wanted to update you on my progress.
> >>> > >
> >>> > > Thanks
> >>> > >
> >>> > > Steve
> >>> > > K7QHU
> >>> > >
> >>> > > _____
> >>> > >
> >>> > > From: TS-520_820_530_830@yahoogroups.com
> >>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
> >>> > > Breining
> >>> > > Sent: Thursday, January 19, 2006 12:42 PM
> >>> > > To: TS-520_820_530_830@yahoogroups.com
> >>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> Reading
> >>> > >
> >>> > >
> >>> > > That would indicate that you are not getting drive. And if I
> >>> understand
> >>> > > correctly you are also not getting any idle current. You do not
> >>> > > need
> >>> > drive
> >>> > > to get idle current.
> >>> > >
> >>> > > Let's double check this. Mode on USB or LSB, all tubes installed,
> >>> SG on
> >>> > mike
> >>> > > gain down, Filament switch on, Meter in IP. Key rig with send
> >>> switch and
> >>> > > watch the IP meter as you change the Bias control in the back. At
> >>> > > one
> >>> > > extreme the tubes should draw a lot of current. At the other
> >>> extreme the
> >>> > > tubes will draw little or no current. Do you get a reading on the
> >>> meter
> >>> > in
> >>> > > any bias position. If you do it should be set for 60 MA.
> >>> > >
> >>> > > If you do not get a reading, do you notice a lot of heat coming
> >>> from the

> >>> > > final area with the bias control at one extreme or the other? If
> >>> > > the
> >>> bias
> >>> > > was working but the meter was not, the tubes would get very hot
> >>> while in
> >>> > > transmit with the bias control at one extreme but not the other.
If
> >>> they
> >>> > do
> >>> > > get very hot, unkey so you do not damage the tubes.
> >>> > >
> >>> > > Now, check again that all tubes filaments are lighted including
the
> >>> 12BY7.
> >>> > > Check this out in a dark room. Be careful and don't fumble into
> >>> the high
> >>> > > voltage!
> >>> > >
> >>> > > If you get no idle current, no excess heat that changes with the
> >>> > > bias
> >>> > > control, and all tubes are lighted, next try removing the relays
and
> >>> > > inspecting the contacts. Look for burned contacts. Clean them.
> >>> > > Remove
> >>> only
> >>> > 1
> >>> > > relay at a time, as they are not the same although they look
alike.
> >>> > >
> >>> > > Now I may be making a fool of myself suggesting the relays, but in
> >>> > > the
> >>> > > limited time I had this afternoon, and with the very poor diagram
I
> >>> have,
> >>> > it
> >>> > > seemed that the power source for the bias goes through Q5 on the
RF
> >>> board
> >>> > > and comes to Q5 through a relay. I did not have the time to check
> >>> this
> >>> > out
> >>> > > thoroughly at this time, but it might be worth checking the
relays.
> >>> > > We
> >>> are
> >>> > > looking for a contact that is not conducting on transmit. Be
> >>> > > careful
> >>> when
> >>> > > removing the covers on these relays, they are not available any
> >>> > > more.

> >>> > >
> >>> > >
> >>> > > Tell us what you find out and I will try to get a better diagram.
I
> >>> have
> >>> > > one on hard copy, but it is not here.
> >>> > >
> >>> > > BTW, the rig should operate with the CW key unpluged.
> >>> > >
> >>> > > Vy 73, Walt N9WB
> >>> > >
> >>> > >
> >>> > >
> >>> > > ----- Original Message -----
> >>> > > From: "Stephen Davis" <sdavis@...>
> >>> > > To: <TS-520_820_530_830@yahoogroups.com>
> >>> > > Sent: Wednesday, January 18, 2006 7:49 PM
> >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> >>> Reading
> >>> > >
> >>> > >
> >>> > > > Hi Walt,
> >>> > > >
> >>> > > > Following your latest instructions, here are the results:
> >>> > > >
> >>> > > > 1. Both plate chokes show 0 ohms when measured as you described.
> >>> > > >
> >>> > > > 2. Putting black lead to top of choke and red lead to ground, it
> >>> shows
> >>> a
> >>> > > low
> >>> > > > resistance to start with, then builds to a high resistance
(about
> >>> 400k).
> >>> > > >
> >>> > > > 3 Putting the red lead to the top of the choke and the black
lead
> >>> > > > to
> >>> > > ground,
> >>> > > > it shows a resistance of about 400k. (somehow I must of goofed
> >>> up my
> >>> > > > original measurement).
> >>> > > >
> >>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> >>> switch to
> >>> > > off,
> >>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send switch
to
> >>> send
> >>> > > and

> >>> > > > held down the cw key while adjusting the drive control
> >>> through-out its
> >>> > > > range. No movement of the meter.
> >>> > > >
> >>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
and
> >>> > > > on
> >>> the
> >>> > > > selector switch there is a 250/1000 vdc position. I would be
> >>> extremely
> >>> > > > cautious making any high voltage measurements.
> >>> > > >
> >>> > > > Thanks again for your help. It would really be neat if we can
> >>> actually
> >>> > > > solve this problem!
> >>> > > >
> >>> > > > 73
> >>> > > >
> >>> > > > Steve K7QHU
> >>> > > >
> >>> >
> >>> >
> >>> >
> >>> > [Non-text portions of this message have been removed]
> >>> >
> >>> >
> >>> >
> >>> >
> >>> > Yahoo! Groups Links
> >>> >
> >>> >
> >>> >
> >>> >
> >>> >
> >>> >
> >>> >
> >>>
> >>>
> >>>
> >>> SPONSORED LINKS
> >>> Ham radio
> >>> <http://groups.yahoo.com/gads?t=ms
> >>
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> >>
>

&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
> >> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
> >>> Craft hobby
> >>> <http://groups.yahoo.com/gads?t=ms
> >>
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> >>
>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
> >> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> >>> Hobby and craft supply
> >>> <http://groups.yahoo.com/gads?t=ms
> >>
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >>
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >>
>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
> >> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >>>
> >>>
> >>>
>
>>> ---
> >>> YAHOO! GROUPS LINKS
> >>>
> >>> * Visit your group "TS-520_820_530_830
> >>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
> >>>
> >>> * To unsubscribe from this group, send an email to:
> >>> TS-520_820_530_830-unsubscribe@yahoogroups.com
> >>>
> >>
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >>>
> >>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> >>> Service <http://docs.yahoo.com/info/terms/>.
> >>>
> >>>
>

>>> --
> >>>
>
>>>--
> >>>
> >>>No virus found in this incoming message.
> >>>Checked by AVG Free Edition.
> >>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
7/02/2006
> >>>
> >>>
> >>
> >>
> >>
> >>
> >> SPONSORED LINKS
> >> Ham
> >>
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> >> Craft
> >>
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> >> Hobby
> >>
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >>
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >> and craft supply
> >>
> >> _____
> >>
> >> YAHOO! GROUPS LINKS
> >>
> >>
> >>
> >> * Visit your group "TS-520_820_530_830
> >> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> >>

> >>
> >> * To unsubscribe from this group, send an email to:
> >> TS-520_820_530_830-unsubscribe@yahoogroups.com
> >>
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >>
> >>
> >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> >> <http://docs.yahoo.com/info/terms/> .
> >>
> >>
> >> _____
> >>
> >>
> >>
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >>
> >>
> >>
> >> Yahoo! Groups Links
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> > >
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio

Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6690. Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 08:56:32 UTC
From: Walt Breining
Topic: 6457 Message: 6690

What about CW?
----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, February 11, 2006 11:56 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hi Walt,
>
> I took two measurements under different conditions on pin 3 of the
> finals and the SG test point on the final board.
>
> The first measurement was done with the function switch in the LSB
> position. In this scenario, I measure about 250 volts on the pin 3's and
> 250 volts on the SG test point.
>
> The second measurement was done with the function switch in the TUNE
> position. In this scenario I measure Zero volts on the pin 3's and Zero
> volts on the SG test point.
>
> So it seems that switching the mode switch from LSB to TUNE causes
the
> loss of voltage on pin 3 of the final tubes and at the SG test point.
This
> may be normal, but I am not sure.
>
> Thanks for your patience and help.
>
> Steve K7QHU
>
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Saturday, February 11, 2006 9:41 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> OK You are almost there. You get + 250 volts on the SG point on the final
> board but 0V on pin 3 of the tubes.
>
> First, be sure that you are counting the pins correctly and you are not

> getting the 0V reading from pin 6. Pin one is connected to pin 4 and 6 by
> foil. From pin 1 count clockwise to pin 3 looking at the foil side of the
> board.
>
> If you are getting 0V on pin 3 the correct voltage of + 250V is not
getting
> to pin 3 so you have no screen voltage shutting the tube down. On the foil
> side of the board, orient the board so the SG pin is at the bottom. The
foil
> that the SG pin connects to goes up and curves to the right. Just above
this
> is another strip of foil. This strip should also have +250 V. On the top
> (component) side of the board, a choke coil (L2) connects these two pieces
> of foil together. From the second foil, a 100 ohm resistor (R6) is on top
of
> the board going from this second foil to the foil that connects to pin 3
of
> one of the tubes. Again from this second foil, a jumper wire on the top of
> the board goes to a piece of foil on the left end of the board that
connects
> to another 100 ohm resistor R5 that is on top of the board. This resistor
> goes to foil that connects to pin 3 of the other tube. Something in this
> circuit is open keeping the + 250 V from reaching the tubes. My first
> suspect will be that the choke coil L2 is open. You can unplug the rig,
> remove the tubes, and check L2 for continuity with your ohm meter. It
should
> show a short of 0 ohms. Be sure to discharge both the HV and the SG pins
to
> grounds before doing this or you can hurt yourself or fry the ohm meter.
>
> Be sure after checking the ohms to return the meter to a voltage position
so
> you do not later accidentally hook it to voltage while in the ohms X 1
> position or you will smoke the meter.
>
> Now if you do find that the choke is defective, get back to me before
> replacing it. Something else will be bad that caused it to open.
>
> If you find that you were measuring the wrong tube pins, disregard the
> above, measure the correct pins and tell me what they read.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, February 11, 2006 6:34 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>

>
> > Hello gang,
> >
> > Thanks for all the suggestions. Here are the results of the latest
> > testing. First I verified the SG reading by doing the following:
> >
> > Okay, to measure the SG point on the Rectifier board I set up the VOM as
> > follows: Black lead plugged into the VOM socket labeled "- com" and the
> > other end of the black lead is clipped to the chassis (ground) of the
> radio.
> > The red lead is plugged into the socket labeled " + v o m" (the o is
> really
> > the ohms sign). I use the other end to the red lead to carefully
measure
> > the point SG. When I measure the point SG with the red lead, it
deflects
> > the needle below the zero reading. Next, I reverse the lead by
clipping
> > the red lead to ground and measuring point SG with the black lead and it
> > measures 110 volts. I interpret this as being negative 110 volts.
> >
> > I also noticed a measurement point labeled SG on the Final board. If I
> take
> > a measurement here (SG point on the final board) then the reading is
> > positive 250 volts.
> >
> > Next measurement was to measure the SG test point on the final board and
> pin
> > 3 of the final tubes with the SG switch ON and the mode switch in the
TUNE
> > position. Both pin 3's and the SG test point measured 0 volts
> >
> > Next measurement was to measure the SG test point on the final board and
> pin
> > 3 of the final tubes with the SG switch ON and the mode switch in the
LSB
> > position. Both pin 3's and the SG test point measured Positive 250
volts.
> >
> > Perhaps I confused the issue when I took the negative readings at the SG
> > test point on the Rectifier board!
> >
> > Alvaro, you mentioned a relay on the bottom of the PA board. I don't
see
> a
> > relay there. I do see a metal box that is between the back of the
chassis
> > and the PA board (right next to the SG switch). Could this be the
relay?
> >

> > Thanks again for all the help.
> >
> > Steve - K7QHU
> >
> >
> > -----Original Message-----
> > From: joe sloss [mailto:k7mks@...]
> > Sent: Saturday, February 11, 2006 2:28 PM
> > To: sdavis@...
> > Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> > Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250
> > volt range. If it is minus or negative your finals will not work
> correctly.
> >
> > Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set
> to
> > its highest DV volt range until it is safe to use a lower range. Set
> meter
> > to read positive voltages. SG switch ON Good luck.
> >
> > Joe k7mks
> > ----- Original Message -----
> > From: "joe sloss" <k7mks@...>
> > To: <sdavis@...>
> > Sent: Saturday, February 11, 2006 12:40 AM
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > > Steve: Take a moment and carefully measure the screen grid voltage of
> the
> > > 6146 tubes when you are in the TUNE position. There is HV in there so
> be
> > > carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
> > >
> > > Joe k7mks
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Friday, February 10, 2006 5:48 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> > >
> > >
> > >> Hello Walt/Joan/Alvaro and all,
> > >>
> > >> Walt, I did as you instructed and I measure about 270 volts one
> > >> resistor up from ground in the voltage divider I constructed. The
270
> > >> volts

> > >> appeared as soon as I switched power on. I left power on for about
10
> > >> seconds and the voltage held steady.
> > >>
> > >> Alvaro, I checked R4 on the rectifier board and it was ok. I
took
> a
> > >> measurement at the point labeled SG (which I assume stands for Screen
> > >> Grid)
> > >> and it read -110 volts. The point labeled STB measured 110 volts, the
> > >> point
> > >> 210A was about 220 volts, the point 300A was about 300 volts and the
> > >> point
> > >> marked -C was -110 volts. Looking at the rectifier board, there are
> no
> > >> burned components and it looks pretty clean.
> > >>
> > >> Joan, I have the S2001A's in the rig, so the filament voltage
> should
> > >> be
> > >> okay.
> > >>
> > >> To recap the problem, I get zero LP and zero ALC readings when
> going
> > >> thru the tuning procedures. If I switch the meter to the HV
position,
> it
> > >> reads about 900 volts. Tuning into a dummy load confirms there is no
> > >> output
> > >> during the tuning procedure. By the way the radio receiver works
great,
> > >> its
> > >> just the transmit side that's a little sick.
> > >>
> > >> Thanks again for the help, and I will keep poking around
(safely)
> > >> until I hear from the group.
> > >>
> > >> Steve K7QHU
> > >>
> > >> _____
> > >>
> > >> From: TS-520_820_530_830@yahoogroups.com
> > >> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de
vk5kyo
> > >> Sent: Wednesday, February 08, 2006 7:44 AM
> > >> To: TS-520_820_530_830@yahoogroups.com
> > >> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> > >>

> > >>
> > >> Hi Steve/Walt
> > >>
> > >> 1. This is a long shot but probably worth a mention.
> > >> I was sitting on some nos (new old stock) 6146 replacement tubes for
> > >> some years before I had the opportunity to use them in a TS-520.
> > >> The tubes were of RCA brand with the following numbers on them -
> > >> 6883B/8032A/8552.
> > >> These tubes are identical in appearance and performance as the
6146's,
> > >> except they have 12 Volt filaments.
> > >> When I eventually used the tubes I got caught with my TS-520 not
having
> > >> any drive even though I could see some filaments glowing. Just not
> > >> getting hot enough for emissions.
> > >> Suppose Steve bought the radio with a set of these in it, he will
never
> > >> get it going unless he rewires the tubes for 12V heater operation (
and
> > >> then place a big caution sign on the chassis, to remind yourself of
the
> > >> volt changes. You don't want to plug in a brand new set of 6Volt
> > tubes).
> > >>
> > >> 2. From my recent repairs to a TS-830, I have made a few observations
> > >> which may be useful if the 820 circuitry is similar.
> > >> a. Bias is independant of drive/ALC. I can de-tune the Drive control
> > >> without affecting the bias setting.
> > >> b. Once the Drive control is peaked for maximum ALC, adjusting the
bias
> > >> pot will change the ALC reading somewhat.
> > >> c. You can not get an ALC reading if the 6146's are not installed.
(The
> > >> Anode cap does not have to be connected for an ALC reading though).
> > >> d. You can not get a bias reading if SG is switched off.
> > >>
> > >> If I read Steve's comment correct, below, he has more than just a
bias
> > >> problem. He seems to be missing drive also if not getting any ALC
> > >> reading.
> > >> Does Steve have another receiver to check if the oscillators are
> > running
> > >> and on frequency?
> > >> Does anyone else agree with that?
> > >> Have you followed Alvaro Py2FWA advise yet? (That is checking all
the
> > >> volages on the power supply board)
> > >>
> > >> 73
> > >> Joan VK5KYO

> > >>
> > >>
> > >>
> > >> Walt Breining wrote:
> > >>
> > >>> With the rig turned off and the high voltage discharged, solder the
> 100
> > >>> k
> > >>> resistors in series and solder one end of this string to the top of
> the
> > >>> plate choke (where the tube plates connect.) connect the other end
to
> > >>> ground on the final cage. You can use a screw from the final cover
and
> > >>> screw
> > >>> it down there. Leave the tubes in. Connect your + voltmeter lead one
> > >>> resistor up from ground and the voltmeter - lead to chassis Ground.
> Set
> > >>> your voltmeter to a scale that will read about 300 VDC. Do not hold
> the
> > >>> voltmeter or volt meter leads while doing this. Turn the power and
> > >>> filaments
> > >>> on, quickly note the meter reading, and turn the power off if the
> > >>> resistors
> > >>> start getting hot. If they do not, wait long enough for the
filaments
> to
> > >>> warm up and see if you still get voltage. Discharge the High
> Voltage
> > >>> before you touch anything.
> > >>>
> > >>> Actually, I should have told you to get 450 K ohm resistors as I
have
> > >>> them
> > >>> running at about 2 watts here but that will be OK. Just turn the
> > >>> power on,
> > >>> get the reading, and turn the power off.
> > >>>
> > >>> You should get something around 260v DC. this should be here as soon
> > >>> as you
> > >>> turn the power on. It could drop to 0 as the tubes warm up if there
is
> a
> > >>> problem. If you read 0 volts after the first 10 seconds, do not even
> > >>> wait
> > >>> for the filaments to warm up, go ahead and kill the power to save
the
> > >>> resistors.
> > >>>
> > >>> This is very ball park. What we are trying to determine is whether

> high
> > >>> voltage is getting to the top of the plate choke. This forms a
voltage
> > >>> / by
> > >>> 3 voltage divider so this test is not as dangerous as you will not
> > >>> have the
> > >>> full 800v on the volt meter or leads. The plate voltage will have to
> > >>> be way
> > >>> low or 0 to be the cause of no bias current.
> > >>>
> > >>> The resistors will probably get hot and smell rather quickly. Be
sure
> > >>> after
> > >>> you turn the power off to discharge everything before making contact
> > >>> with
> > >>> these components.
> > >>>
> > >>> Let us know what you find out and we can go on from there.
> > >>>
> > >>> Vy 73, Walt N9WB
> > >>>
> > >>>
> > >>>
> > >>> ----- Original Message -----
> > >>> From: "Stephen Davis" <sdavis@...>
> > >>> To: <TS-520_820_530_830@yahoogroups.com>
> > >>> Sent: Wednesday, February 08, 2006 12:19 AM
> > >>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >>>
> > >>>
> > >>> > Hello All,
> > >>> >
> > >>> > Update on my problematic TS-820S with no plate current
reading
> > >>> > and
> > >>> no
> > >>> > bias reading. I have been pretty busy the last week so haven't
had
> > >>> > time
> > >>> to
> > >>> > do much, however this weekend I will be able to spend some time on
> it.
> > >>> > Seeking any and all advice on what to try next. I have the
> > >>> > schematics,
> > >>> but
> > >>> > translating that into useful troubleshooting information is not
> going
> > >>> > so
> > >>> > well. Maybe in a couple of years if I keep at it!! In the

> meantime,
> > >>> > I
> > >>> have
> > >>> > picked up some basic electronics books and an old book titled "How
> to
> > >>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> > >>> just get
> > >>> a
> > >>> > mind meld with the author!!
> > >>> >
> > >>> > To recap the steps taken so far (Thanks to Walt for
suggesting
> > >>> these!):
> > >>> >
> > >>> > Checked the cathode resistors - tested OK
> > >>> > Checked the plate chokes for short - tested OK
> > >>> > Checked the relay on the relay board - contacts clean and I can
see
> > >>> > the
> > >>> > relay work when I go from receive to send.
> > >>> > Checked the SG switch - OK
> > >>> > Filaments light in all three tubes.
> > >>> > Substituted all three tubes, no change in symptoms.
> > >>> > I took the following measurements at the bias pot.
> > >>> >
> > >>> > Bias pot fully counterclockwise: left terminal -95v center
> > >>> terminal
> > >>> > -105v right terminal -105v
> > >>> > Bias pot centered: left terminal -95v center terminal -95v
> > >>> right
> > >>> > terminal -105v
> > >>> > Bias pot fully clockwise left terminal -95v center
terminal
> > >>> -95v
> > >>> > right terminal -105v
> > >>> >
> > >>> > Note to Walt - I have the 1 watt 100kohm resistors that you
> suggested
> > >>> > I
> > >>> pick
> > >>> > up. Not sure what you wanted me to try with them.
> > >>> >
> > >>> > Once again, I really appreciate all the suggestions and
> encouragement
> > >>> > I
> > >>> have
> > >>> > received so far from this group.
> > >>> >
> > >>> > Steve K7QHU
> > >>> > _____

> > >>> >
> > >>> > From: Stephen Davis [mailto:sdavis@...]
> > >>> > Sent: Sunday, January 29, 2006 11:52 AM
> > >>> > To: 'TS-520_820_530_830@yahoogroups.com'
> > >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> > Reading
> > >>> >
> > >>> >
> > >>> > Hi Walt,
> > >>> >
> > >>> > Your first paragraph is correct.
> > >>> >
> > >>> > I took the following measurements at the bias pot.
> > >>> >
> > >>> > Bias pot fully counterclockwise: left terminal -95v center
> > >>> terminal
> > >>> > -105v right terminal -105v
> > >>> > Bias pot centered: left terminal -95v center terminal -95v
> > >>> right
> > >>> > terminal -105v
> > >>> > Bias pot fully clockwise left terminal -95v center
terminal
> > >>> -95v
> > >>> > right terminal -105v
> > >>> >
> > >>> > I took measurments with mode set to lsb, band set to 40
meters,
> > >>> mike
> > >>> > gain down and with the send receive switch in the send position.
> All
> > >>> other
> > >>> > controls set per the table in the manual for initial transmit
> tuning.
> > >>> >
> > >>> > I am on the way to Radio Shack to pick up the resistors.
> > >>> >
> > >>> > Thanks
> > >>> >
> > >>> > Steve
> > >>> >
> > >>> > _____
> > >>> >
> > >>> > From: TS-520_820_530_830@yahoogroups.com
> > >>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
> Breining
> > >>> > Sent: Sunday, January 29, 2006 5:32 AM
> > >>> > To: TS-520_820_530_830@yahoogroups.com
> > >>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> > Reading
> > >>> >

> > >>> >
> > >>> > I am assuming the following. If I an wrong, please tell me.
> > >>> >
> > >>> > With the rig keyed in SSB, mike gain down, meter in the IP
position,
> > >>> > no
> > >>> > matter where you adjust the bias pot on the back of the rig you
get
> > >>> no IP
> > >>> > reading?
> > >>> >
> > >>> > Assuming the above, with the rig keyed and set as above, Measure
the
> > >>> voltage
> > >>> > to ground on the terminal on each end of the Bias pot. Then place
> the
> > >>> meter
> > >>> > on the center terminal and see if the voltage changes as you
rotate
> > >>> > this
> > >>> > control. Give me readings with this full CCW, fully CW and
center.
> > >>> >
> > >>> > Unless you read 0 voltage on the center of the Bias pot in all
> > >>> positions,
> > >>> go
> > >>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
> > >>> > when
> > >>> you
> > >>> > have done this.
> > >>> >
> > >>> > Vy 73, Walt.
> > >>> >
> > >>> >
> > >>> > ----- Original Message -----
> > >>> > From: "Stephen Davis" <sdavis@...>
> > >>> > To: <TS-520_820_530_830@yahoogroups.com>
> > >>> > Sent: Saturday, January 28, 2006 9:33 PM
> > >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> > Reading
> > >>> >
> > >>> >
> > >>> > > Hello All,
> > >>> > >
> > >>> > > Update on my problem with my TS-820S radio. Still no
> transmit
> > >>> > > on
> > >>> the
> > >>> > > radio. The symptom remains the same, that is unable to get any
> bias

> > >>> > reading
> > >>> > > when trying to tune the rig (if I switch meter to hf position I
do
> > >>> get a
> > >>> > > reading of about 850v). Thanks to Walt, these are the things
> tried
> > >>> > > so
> > >>> far
> > >>> > > in troubleshooting the radio:
> > >>> > >
> > >>> > > Checked the cathode resistors (ok).
> > >>> > > Checked Plate chokes for short (ok)
> > >>> > > Checked relay on relay board (ok, or I should say contacts
> are
> > >>> clean
> > >>> > > and relay moves when I switch from rec to send)
> > >>> > > Checked SG switch (ok)
> > >>> > > Filaments light in all three tubes.
> > >>> > > Substituted all three tubes, no change in symptoms.
> > >>> > >
> > >>> > > Any thoughts on the next steps I should take to
troubleshoot
> > >>> > > this
> > >>> > would
> > >>> > > be appreciated. I really would like to get this rig on the air!
> > >>> > >
> > >>> > > Thanks
> > >>> > >
> > >>> > > Steve - K7QHU
> > >>> > >
> > >>> > > _____
> > >>> > >
> > >>> > > From: Stephen Davis [mailto:sdavis@...]
> > >>> > > Sent: Thursday, January 19, 2006 8:43 PM
> > >>> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> Reading
> > >>> > >
> > >>> > >
> > >>> > > Hi Walt,
> > >>> > >
> > >>> > > You are correct, I am not getting any idle current. All
tube
> > >>> filaments
> > >>> > > are lit. I tried rotating the bias control in the back and
keying
> > >>> > > the
> > >>> send
> > >>> > > switch as suggested. I did not notice excessive heating at
either

> > >>> > > end
> > >>> of
> > >>> > > the rotation.
> > >>> > >
> > >>> > > I have removed the relay housing (Omron type MH4P) from the
> > >>> > > relay
> > >>> > > board, but having trouble getting the plastic cover off. I am
> being
> > >>> very
> > >>> > > gentle so as not to break it, but not haveing much success.
Will
> > >>> continue
> > >>> > > to try. In the meantime, just eyeballing the contacts, the
> contacts
> > >>> that
> > >>> > > are in the open position look very clean. I was looking a the
> > >>> schematic
> > >>> > (a
> > >>> > > somewhat fuzzy copy) to try and determine what voltage is used
> > >>> > > across
> > >>> the
> > >>> > > coil to open/close the relay, but I could not tell. I was
> > >>> thinking this
> > >>> > > could be a way to test to make sure at least the relay(s) are
> > >>> > > opening
> > >>> and
> > >>> > > closing. If I can determine the voltage, is this a legitimate
> > >>> test? I
> > >>> > also
> > >>> > > measured the resistance across the coil and it was around 380
> ohms,
> > >>> which
> > >>> > is
> > >>> > > the resistance stamped on it, so at least I know the coil is not
> > >>> open or
> > >>> > > shorted.
> > >>> > >
> > >>> > > I will keep trying to get the plastic case off so I can
> > >>> > > actually
> > >>> > clean
> > >>> > > the contacts. Just wanted to update you on my progress.
> > >>> > >
> > >>> > > Thanks
> > >>> > >
> > >>> > > Steve
> > >>> > > K7QHU
> > >>> > >
> > >>> > > _____
> > >>> > >
> > >>> > > From: TS-520_820_530_830@yahoogroups.com

> > >>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
> > >>> > > Breining
> > >>> > > Sent: Thursday, January 19, 2006 12:42 PM
> > >>> > > To: TS-520_820_530_830@yahoogroups.com
> > >>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> Reading
> > >>> > >
> > >>> > >
> > >>> > > That would indicate that you are not getting drive. And if I
> > >>> understand
> > >>> > > correctly you are also not getting any idle current. You do not
> > >>> > > need
> > >>> > drive
> > >>> > > to get idle current.
> > >>> > >
> > >>> > > Let's double check this. Mode on USB or LSB, all tubes
installed,
> > >>> SG on
> > >>> > mike
> > >>> > > gain down, Filament switch on, Meter in IP. Key rig with send
> > >>> switch and
> > >>> > > watch the IP meter as you change the Bias control in the back.
At
> > >>> > > one
> > >>> > > extreme the tubes should draw a lot of current. At the other
> > >>> extreme the
> > >>> > > tubes will draw little or no current. Do you get a reading on
the
> > >>> meter
> > >>> > in
> > >>> > > any bias position. If you do it should be set for 60 MA.
> > >>> > >
> > >>> > > If you do not get a reading, do you notice a lot of heat coming
> > >>> from the
> > >>> > > final area with the bias control at one extreme or the other?
If
> > >>> > > the
> > >>> bias
> > >>> > > was working but the meter was not, the tubes would get very hot
> > >>> while in
> > >>> > > transmit with the bias control at one extreme but not the other.
> If
> > >>> they
> > >>> > do
> > >>> > > get very hot, unkey so you do not damage the tubes.
> > >>> > >
> > >>> > > Now, check again that all tubes filaments are lighted including
> the
> > >>> 12BY7.
> > >>> > > Check this out in a dark room. Be careful and don't fumble into

> > >>> the high
> > >>> > > voltage!
> > >>> > >
> > >>> > > If you get no idle current, no excess heat that changes with the
> > >>> > > bias
> > >>> > > control, and all tubes are lighted, next try removing the relays
> and
> > >>> > > inspecting the contacts. Look for burned contacts. Clean them.
> > >>> > > Remove
> > >>> only
> > >>> > 1
> > >>> > > relay at a time, as they are not the same although they look
> alike.
> > >>> > >
> > >>> > > Now I may be making a fool of myself suggesting the relays, but
in
> > >>> > > the
> > >>> > > limited time I had this afternoon, and with the very poor
diagram
> I
> > >>> have,
> > >>> > it
> > >>> > > seemed that the power source for the bias goes through Q5 on the
> RF
> > >>> board
> > >>> > > and comes to Q5 through a relay. I did not have the time to
check
> > >>> this
> > >>> > out
> > >>> > > thoroughly at this time, but it might be worth checking the
> relays.
> > >>> > > We
> > >>> are
> > >>> > > looking for a contact that is not conducting on transmit. Be
> > >>> > > careful
> > >>> when
> > >>> > > removing the covers on these relays, they are not available any
> > >>> > > more.
> > >>> > >
> > >>> > >
> > >>> > > Tell us what you find out and I will try to get a better
diagram.
> I
> > >>> have
> > >>> > > one on hard copy, but it is not here.
> > >>> > >
> > >>> > > BTW, the rig should operate with the CW key unpluged.
> > >>> > >
> > >>> > > Vy 73, Walt N9WB
> > >>> > >

> > >>> > >
> > >>> > >
> > >>> > > ----- Original Message -----
> > >>> > > From: "Stephen Davis" <sdavis@...>
> > >>> > > To: <TS-520_820_530_830@yahoogroups.com>
> > >>> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> Reading
> > >>> > >
> > >>> > >
> > >>> > > > Hi Walt,
> > >>> > > >
> > >>> > > > Following your latest instructions, here are the results:
> > >>> > > >
> > >>> > > > 1. Both plate chokes show 0 ohms when measured as you
described.
> > >>> > > >
> > >>> > > > 2. Putting black lead to top of choke and red lead to ground,
it
> > >>> shows
> > >>> a
> > >>> > > low
> > >>> > > > resistance to start with, then builds to a high resistance
> (about
> > >>> 400k).
> > >>> > > >
> > >>> > > > 3 Putting the red lead to the top of the choke and the black
> lead
> > >>> > > > to
> > >>> > > ground,
> > >>> > > > it shows a resistance of about 400k. (somehow I must of
goofed
> > >>> up my
> > >>> > > > original measurement).
> > >>> > > >
> > >>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> > >>> switch to
> > >>> > off,
> > >>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send
switch
> to
> > >>> send
> > >>> > > and
> > >>> > > > held down the cw key while adjusting the drive control
> > >>> through-out its
> > >>> > > > range. No movement of the meter.
> > >>> > > >
> > >>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
> and
> > >>> > > > on

> > >>> the
> > >>> > > > selector switch there is a 250/1000 vdc position. I would be
> > >>> extremely
> > >>> > > > cautious making any high voltage measurements.
> > >>> > > >
> > >>> > > > Thanks again for your help. It would really be neat if we can
> > >>> actually
> > >>> > > > solve this problem!
> > >>> > > >
> > >>> > > > 73
> > >>> > > >
> > >>> > > > Steve K7QHU
> > >>> > > >
> > >>> >
> > >>> >
> > >>> >
> > >>> > [Non-text portions of this message have been removed]
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> > Yahoo! Groups Links
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>>
> > >>>
> > >>>
> > >>> SPONSORED LINKS
> > >>> Ham radio
> > >>> <http://groups.yahoo.com/gads?t=ms
> > >>
> > >
> > <http://groups.yahoo.com/gads?t=ms
> >
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > >>
> > >
> >
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
> > >> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > >>> Craft hobby
> > >>> <http://groups.yahoo.com/gads?t=ms
> > >>

> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > >>
> >
>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
> > >> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > >>> Hobby and craft supply
> > >>> <http://groups.yahoo.com/gads?t=ms
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > >>
> >
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >>
> >
>
&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
> > >> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >>>
> > >>>
> > >>>
> >
>
>>> ---
> > >>> YAHOO! GROUPS LINKS
> > >>>
> > >>> * Visit your group "TS-520_820_530_830
> > >>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
> > >>>
> > >>> * To unsubscribe from this group, send an email to:
> > >>> TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >>>
> > >>
> >
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> > >>>
> > >>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > >>> Service <http://docs.yahoo.com/info/terms/>.

> > >>>
> > >>>
> >
>
>>> --
> > >>>
> >
>
>>>--
> > >>>
> > >>>No virus found in this incoming message.
> > >>>Checked by AVG Free Edition.
> > >>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
> 7/02/2006
> > >>>
> > >>>
> > >>
> > >>
> > >>
> > >>
> > >> SPONSORED LINKS
> > >> Ham
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> > >> Craft
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
> > >> Hobby
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > >>
> >
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >> and craft supply

> > >>
> > >> _____
> > >>
> > >> YAHOO! GROUPS LINKS
> > >>
> > >>
> > >>
> > >> * Visit your group "TS-520_820_530_830
> > >> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> > >>
> > >>
> > >> * To unsubscribe from this group, send an email to:
> > >> TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >>
> > >
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> > >>
> > >>
> > >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> > >> <http://docs.yahoo.com/info/terms/> .
> > >>
> > >>
> > >> _____
> > >>
> > >>
> > >>
> > >>
> > >> [Non-text portions of this message have been removed]
> > >>
> > >>
> > >>
> > >>
> > >> Yahoo! Groups Links
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >

> >
> >
> >
> >
> >
> >
>
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>

>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6691. RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-12 18:01:30 UTC
From: Stephen Davis
Topic: 6457 Message: 6691

Hi Walt,

With the function switch in CW mode, I measure 250 volts on the pin 3's of the final and 250 volts on the SG test point. Note in making all these measurements, the send/receive switch remains in the receive position. I have not tried to take any measurements with the send/receive switch in the send position.

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Sunday, February 12, 2006 1:57 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading

What about CW?
----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, February 11, 2006 11:56 PM
Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading

> Hi Walt,
>
> I took two measurements under different conditions on pin 3 of the
> finals and the SG test point on the final board.
>
> The first measurement was done with the function switch in the LSB
> position. In this scenario, I measure about 250 volts on the pin 3's and
> 250 volts on the SG test point.
>
> The second measurement was done with the function switch in the TUNE
> position. In this scenario I measure Zero volts on the pin 3's and Zero
> volts on the SG test point.
>
> So it seems that switching the mode switch from LSB to TUNE causes
the
> loss of voltage on pin 3 of the final tubes and at the SG test point.
This
> may be normal, but I am not sure.
>
> Thanks for your patience and help.

>
> Steve K7QHU
>
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Saturday, February 11, 2006 9:41 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> OK You are almost there. You get + 250 volts on the SG point on the final
> board but 0V on pin 3 of the tubes.
>
> First, be sure that you are counting the pins correctly and you are not
> getting the 0V reading from pin 6. Pin one is connected to pin 4 and 6 by
> foil. From pin 1 count clockwise to pin 3 looking at the foil side of the
> board.
>
> If you are getting 0V on pin 3 the correct voltage of + 250V is not
getting
> to pin 3 so you have no screen voltage shutting the tube down. On the foil
> side of the board, orient the board so the SG pin is at the bottom. The
foil
> that the SG pin connects to goes up and curves to the right. Just above
this
> is another strip of foil. This strip should also have +250 V. On the top
> (component) side of the board, a choke coil (L2) connects these two pieces
> of foil together. From the second foil, a 100 ohm resistor (R6) is on top
of
> the board going from this second foil to the foil that connects to pin 3
of
> one of the tubes. Again from this second foil, a jumper wire on the top of
> the board goes to a piece of foil on the left end of the board that
connects
> to another 100 ohm resistor R5 that is on top of the board. This resistor
> goes to foil that connects to pin 3 of the other tube. Something in this
> circuit is open keeping the + 250 V from reaching the tubes. My first
> suspect will be that the choke coil L2 is open. You can unplug the rig,
> remove the tubes, and check L2 for continuity with your ohm meter. It
should
> show a short of 0 ohms. Be sure to discharge both the HV and the SG pins
to
> grounds before doing this or you can hurt yourself or fry the ohm meter.
>
> Be sure after checking the ohms to return the meter to a voltage position
so

> you do not later accidentally hook it to voltage while in the ohms X 1
> position or you will smoke the meter.
>
> Now if you do find that the choke is defective, get back to me before
> replacing it. Something else will be bad that caused it to open.
>
> If you find that you were measuring the wrong tube pins, disregard the
> above, measure the correct pins and tell me what they read.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "Stephen Davis" <sdavis@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, February 11, 2006 6:34 PM
> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current Reading
>
>
> > Hello gang,
> >
> > Thanks for all the suggestions. Here are the results of the latest
> > testing. First I verified the SG reading by doing the following:
> >
> > Okay, to measure the SG point on the Rectifier board I set up the VOM as
> > follows: Black lead plugged into the VOM socket labeled "- com" and the
> > other end of the black lead is clipped to the chassis (ground) of the
> radio.
> > The red lead is plugged into the socket labeled " + v o m" (the o is
> really
> > the ohms sign). I use the other end to the red lead to carefully
measure
> > the point SG. When I measure the point SG with the red lead, it
deflects
> > the needle below the zero reading. Next, I reverse the lead by
clipping
> > the red lead to ground and measuring point SG with the black lead and it
> > measures 110 volts. I interpret this as being negative 110 volts.
> >
> > I also noticed a measurement point labeled SG on the Final board. If I
> take
> > a measurement here (SG point on the final board) then the reading is
> > positive 250 volts.
> >
> > Next measurement was to measure the SG test point on the final board and
> pin
> > 3 of the final tubes with the SG switch ON and the mode switch in the
TUNE
> > position. Both pin 3's and the SG test point measured 0 volts
> >

> > Next measurement was to measure the SG test point on the final board and
> pin
> > 3 of the final tubes with the SG switch ON and the mode switch in the
LSB
> > position. Both pin 3's and the SG test point measured Positive 250
volts.
> >
> > Perhaps I confused the issue when I took the negative readings at the SG
> > test point on the Rectifier board!
> >
> > Alvaro, you mentioned a relay on the bottom of the PA board. I don't
see
> a
> > relay there. I do see a metal box that is between the back of the
chassis
> > and the PA board (right next to the SG switch). Could this be the
relay?
> >
> > Thanks again for all the help.
> >
> > Steve - K7QHU
> >
> >
> > -----Original Message-----
> > From: joe sloss [mailto:k7mks@...]
> > Sent: Saturday, February 11, 2006 2:28 PM
> > To: sdavis@...
> > Subject: Fw: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> > Steve: The voltage on Pin 3 of each 6146 must be positive in the 200-250
> > volt range. If it is minus or negative your finals will not work
> correctly.
> >
> > Black voltmeter probe to chassis ground - red probe to Pin 3. Meter set
> to
> > its highest DV volt range until it is safe to use a lower range. Set
> meter
> > to read positive voltages. SG switch ON Good luck.
> >
> > Joe k7mks
> > ----- Original Message -----
> > From: "joe sloss" <k7mks@...>
> > To: <sdavis@...>
> > Sent: Saturday, February 11, 2006 12:40 AM
> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current Reading
> >
> >
> > > Steve: Take a moment and carefully measure the screen grid voltage of
> the
> > > 6146 tubes when you are in the TUNE position. There is HV in there so

> be
> > > carefull. This is Pin 3 of the 6146's. Be sure the SG switch is ON.
> > >
> > > Joe k7mks
> > > ----- Original Message -----
> > > From: "Stephen Davis" <sdavis@...>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Friday, February 10, 2006 5:48 PM
> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> > >
> > >
> > >> Hello Walt/Joan/Alvaro and all,
> > >>
> > >> Walt, I did as you instructed and I measure about 270 volts one
> > >> resistor up from ground in the voltage divider I constructed. The
270
> > >> volts
> > >> appeared as soon as I switched power on. I left power on for about
10
> > >> seconds and the voltage held steady.
> > >>
> > >> Alvaro, I checked R4 on the rectifier board and it was ok. I
took
> a
> > >> measurement at the point labeled SG (which I assume stands for Screen
> > >> Grid)
> > >> and it read -110 volts. The point labeled STB measured 110 volts, the
> > >> point
> > >> 210A was about 220 volts, the point 300A was about 300 volts and the
> > >> point
> > >> marked -C was -110 volts. Looking at the rectifier board, there are
> no
> > >> burned components and it looks pretty clean.
> > >>
> > >> Joan, I have the S2001A's in the rig, so the filament voltage
> should
> > >> be
> > >> okay.
> > >>
> > >> To recap the problem, I get zero LP and zero ALC readings when
> going
> > >> thru the tuning procedures. If I switch the meter to the HV
position,
> it
> > >> reads about 900 volts. Tuning into a dummy load confirms there is no
> > >> output
> > >> during the tuning procedure. By the way the radio receiver works
great,
> > >> its

> > >> just the transmit side that's a little sick.
> > >>
> > >> Thanks again for the help, and I will keep poking around
(safely)
> > >> until I hear from the group.
> > >>
> > >> Steve K7QHU
> > >>
> > >> _____
> > >>
> > >> From: TS-520_820_530_830@yahoogroups.com
> > >> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de
vk5kyo
> > >> Sent: Wednesday, February 08, 2006 7:44 AM
> > >> To: TS-520_820_530_830@yahoogroups.com
> > >> Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
Reading
> > >>
> > >>
> > >> Hi Steve/Walt
> > >>
> > >> 1. This is a long shot but probably worth a mention.
> > >> I was sitting on some nos (new old stock) 6146 replacement tubes for
> > >> some years before I had the opportunity to use them in a TS-520.
> > >> The tubes were of RCA brand with the following numbers on them -
> > >> 6883B/8032A/8552.
> > >> These tubes are identical in appearance and performance as the
6146's,
> > >> except they have 12 Volt filaments.
> > >> When I eventually used the tubes I got caught with my TS-520 not
having
> > >> any drive even though I could see some filaments glowing. Just not
> > >> getting hot enough for emissions.
> > >> Suppose Steve bought the radio with a set of these in it, he will
never
> > >> get it going unless he rewires the tubes for 12V heater operation (
and
> > >> then place a big caution sign on the chassis, to remind yourself of
the
> > >> volt changes. You don't want to plug in a brand new set of 6Volt
> tubes).
> > >>
> > >> 2. From my recent repairs to a TS-830, I have made a few observations
> > >> which may be useful if the 820 circuitry is similar.
> > >> a. Bias is independant of drive/ALC. I can de-tune the Drive control
> > >> without affecting the bias setting.
> > >> b. Once the Drive control is peaked for maximum ALC, adjusting the
bias
> > >> pot will change the ALC reading somewhat.
> > >> c. You can not get an ALC reading if the 6146's are not installed.

(The
> > >> Anode cap does not have to be connected for an ALC reading though).
> > >> d. You can not get a bias reading if SG is switched off.
> > >>
> > >> If I read Steve's comment correct, below, he has more than just a
bias
> > >> problem. He seems to be missing drive also if not getting any ALC
> > >> reading.
> > >> Does Steve have another receiver to check if the oscillators are
> running
> > >> and on frequency?
> > >> Does anyone else agree with that?
> > >> Have you followed Alvaro Py2FWA advise yet? (That is checking all
the
> > >> volages on the power supply board)
> > >>
> > >> 73
> > >> Joan VK5KYO
> > >>
> > >>
> > >>
> > >> Walt Breining wrote:
> > >>
> > >>> With the rig turned off and the high voltage discharged, solder the
> 100
> > >>> k
> > >>> resistors in series and solder one end of this string to the top of
> the
> > >>> plate choke (where the tube plates connect.) connect the other end
to
> > >>> ground on the final cage. You can use a screw from the final cover
and
> > >>> screw
> > >>> it down there. Leave the tubes in. Connect your + voltmeter lead one
> > >>> resistor up from ground and the voltmeter - lead to chassis Ground.
> Set
> > >>> your voltmeter to a scale that will read about 300 VDC. Do not hold
> the
> > >>> voltmeter or volt meter leads while doing this. Turn the power and
> > >>> filaments
> > >>> on, quickly note the meter reading, and turn the power off if the
> > >>> resistors
> > >>> start getting hot. If they do not, wait long enough for the
filaments
> to
> > >>> warm up and see if you still get voltage. Discharge the High
> Voltage
> > >>> before you touch anything.
> > >>>
> > >>> Actually, I should have told you to get 450 K ohm resistors as I

have
> > >>> them
> > >>> running at about 2 watts here but that will be OK. Just turn the
> > >>> power on,
> > >>> get the reading, and turn the power off.
> > >>>
> > >>> You should get something around 260v DC. this should be here as soon
> > >>> as you
> > >>> turn the power on. It could drop to 0 as the tubes warm up if there
is
> a
> > >>> problem. If you read 0 volts after the first 10 seconds, do not even
> > >>> wait
> > >>> for the filaments to warm up, go ahead and kill the power to save
the
> > >>> resistors.
> > >>>
> > >>> This is very ball park. What we are trying to determine is whether
> high
> > >>> voltage is getting to the top of the plate choke. This forms a
voltage
> > >>> / by
> > >>> 3 voltage divider so this test is not as dangerous as you will not
> > >>> have the
> > >>> full 800v on the volt meter or leads. The plate voltage will have to
> > >>> be way
> > >>> low or 0 to be the cause of no bias current.
> > >>>
> > >>> The resistors will probably get hot and smell rather quickly. Be
sure
> > >>> after
> > >>> you turn the power off to discharge everything before making contact
> > >>> with
> > >>> these components.
> > >>>
> > >>> Let us know what you find out and we can go on from there.
> > >>>
> > >>> Vy 73, Walt N9WB
> > >>>
> > >>>
> > >>>
> > >>> ----- Original Message -----
> > >>> From: "Stephen Davis" <sdavis@...>
> > >>> To: <TS-520_820_530_830@yahoogroups.com>
> > >>> Sent: Wednesday, February 08, 2006 12:19 AM
> > >>> Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> Reading
> > >>>
> > >>>
> > >>> > Hello All,

> > >>> >
> > >>> > Update on my problematic TS-820S with no plate current
reading
> > >>> > and
> > >>> no
> > >>> > bias reading. I have been pretty busy the last week so haven't
had
> > >>> > time
> > >>> to
> > >>> > do much, however this weekend I will be able to spend some time on
> it.
> > >>> > Seeking any and all advice on what to try next. I have the
> > >>> > schematics,
> > >>> but
> > >>> > translating that into useful troubleshooting information is not
> going
> > >>> > so
> > >>> > well. Maybe in a couple of years if I keep at it!! In the
> meantime,
> > >>> > I
> > >>> have
> > >>> > picked up some basic electronics books and an old book titled "How
> to
> > >>> > Troubleshoot and Repair Amateur Radio Equipment". Now if I could
> > >>> just get
> > >>> > a
> > >>> > mind meld with the author!!
> > >>> >
> > >>> > To recap the steps taken so far (Thanks to Walt for
suggesting
> > >>> these!):
> > >>> >
> > >>> > Checked the cathode resistors - tested OK
> > >>> > Checked the plate chokes for short - tested OK
> > >>> > Checked the relay on the relay board - contacts clean and I can
see
> > >>> > the
> > >>> > relay work when I go from receive to send.
> > >>> > Checked the SG switch - OK
> > >>> > Filaments light in all three tubes.
> > >>> > Substituted all three tubes, no change in symptoms.
> > >>> > I took the following measurements at the bias pot.
> > >>> >
> > >>> > Bias pot fully counterclockwise: left terminal -95v center
> > >>> terminal
> > >>> > -105v right terminal -105v
> > >>> > Bias pot centered: left terminal -95v center terminal -95v
> > >>> right
> > >>> > terminal -105v
> > >>> > Bias pot fully clockwise left terminal -95v center

terminal
> > >>> -95v
> > >>> > right terminal -105v
> > >>> >
> > >>> > Note to Walt - I have the 1 watt 100kohm resistors that you
> suggested
> > >>> > I
> > >>> pick
> > >>> > up. Not sure what you wanted me to try with them.
> > >>> >
> > >>> > Once again, I really appreciate all the suggestions and
> encouragement
> > >>> > I
> > >>> have
> > >>> > received so far from this group.
> > >>> >
> > >>> > Steve K7QHU
> > >>> > _____
> > >>> >
> > >>> > From: Stephen Davis [mailto:sdavis@...]
> > >>> > Sent: Sunday, January 29, 2006 11:52 AM
> > >>> > To: 'TS-520_820_530_830@yahoogroups.com'
> > >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> > Reading
> > >>> >
> > >>> >
> > >>> > Hi Walt,
> > >>> >
> > >>> > Your first paragraph is correct.
> > >>> >
> > >>> > I took the following measurements at the bias pot.
> > >>> >
> > >>> > Bias pot fully counterclockwise: left terminal -95v center
> > >>> terminal
> > >>> > -105v right terminal -105v
> > >>> > Bias pot centered: left terminal -95v center terminal -95v
> > >>> right
> > >>> > terminal -105v
> > >>> > Bias pot fully clockwise left terminal -95v center
terminal
> > >>> -95v
> > >>> > right terminal -105v
> > >>> >
> > >>> > I took measurments with mode set to lsb, band set to 40
meters,
> > >>> mike
> > >>> > gain down and with the send receive switch in the send position.
> All
> > >>> other
> > >>> > controls set per the table in the manual for initial transmit

> tuning.
> > >>> >
> > >>> > I am on the way to Radio Shack to pick up the resistors.
> > >>> >
> > >>> > Thanks
> > >>> >
> > >>> > Steve
> > >>> >
> > >>> > _____
> > >>> >
> > >>> > From: TS-520_820_530_830@yahoogroups.com
> > >>> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
> Breining
> > >>> > Sent: Sunday, January 29, 2006 5:32 AM
> > >>> > To: TS-520_820_530_830@yahoogroups.com
> > >>> > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> > Reading
> > >>> >
> > >>> >
> > >>> > I am assuming the following. If I an wrong, please tell me.
> > >>> >
> > >>> > With the rig keyed in SSB, mike gain down, meter in the IP
position,
> > >>> > no
> > >>> > matter where you adjust the bias pot on the back of the rig you
get
> > >>> no IP
> > >>> > reading?
> > >>> >
> > >>> > Assuming the above, with the rig keyed and set as above, Measure
the
> > >>> voltage
> > >>> > to ground on the terminal on each end of the Bias pot. Then place
> the
> > >>> meter
> > >>> > on the center terminal and see if the voltage changes as you
rotate
> > >>> > this
> > >>> > control. Give me readings with this full CCW, fully CW and
center.
> > >>> >
> > >>> > Unless you read 0 voltage on the center of the Bias pot in all
> > >>> positions,
> > >>> go
> > >>> > to Radio Shack and get 3-100 K ohm resistors at 1 watt.Let me know
> > >>> > when
> > >>> you
> > >>> > have done this.
> > >>> >
> > >>> > Vy 73, Walt.

> > >>> >
> > >>> >
> > >>> > ----- Original Message -----
> > >>> > From: "Stephen Davis" <sdavis@...>
> > >>> > To: <TS-520_820_530_830@yahoogroups.com>
> > >>> > Sent: Saturday, January 28, 2006 9:33 PM
> > >>> > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> > Reading
> > >>> >
> > >>> >
> > >>> > > Hello All,
> > >>> > >
> > >>> > > Update on my problem with my TS-820S radio. Still no
> transmit
> > >>> > > on
> > >>> the
> > >>> > > radio. The symptom remains the same, that is unable to get any
> bias
> > >>> > reading
> > >>> > > when trying to tune the rig (if I switch meter to hf position I
do
> > >>> get a
> > >>> > > reading of about 850v). Thanks to Walt, these are the things
> tried
> > >>> > > so
> > >>> far
> > >>> > > in troubleshooting the radio:
> > >>> > >
> > >>> > > Checked the cathode resistors (ok).
> > >>> > > Checked Plate chokes for short (ok)
> > >>> > > Checked relay on relay board (ok, or I should say contacts
> are
> > >>> clean
> > >>> > > and relay moves when I switch from rec to send)
> > >>> > > Checked SG switch (ok)
> > >>> > > Filaments light in all three tubes.
> > >>> > > Substituted all three tubes, no change in symptoms.
> > >>> > >
> > >>> > > Any thoughts on the next steps I should take to
troubleshoot
> > >>> > > this
> > >>> > would
> > >>> > > be appreciated. I really would like to get this rig on the air!
> > >>> > >
> > >>> > > Thanks
> > >>> > >
> > >>> > > Steve - K7QHU
> > >>> > >
> > >>> > > _____
> > >>> > >

> > >>> > > From: Stephen Davis [mailto:sdavis@...]
> > >>> > > Sent: Thursday, January 19, 2006 8:43 PM
> > >>> > > To: 'TS-520_820_530_830@yahoogroups.com'
> > >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> Reading
> > >>> > >
> > >>> > >
> > >>> > > Hi Walt,
> > >>> > >
> > >>> > > You are correct, I am not getting any idle current. All
tube
> > >>> filaments
> > >>> > > are lit. I tried rotating the bias control in the back and
keying
> > >>> > > the
> > >>> send
> > >>> > > switch as suggested. I did not notice excessive heating at
either
> > >>> > > end
> > >>> of
> > >>> > > the rotation.
> > >>> > >
> > >>> > > I have removed the relay housing (Omron type MH4P) from the
> > >>> > > relay
> > >>> > > board, but having trouble getting the plastic cover off. I am
> being
> > >>> very
> > >>> > > gentle so as not to break it, but not haveing much success.
Will
> > >>> continue
> > >>> > > to try. In the meantime, just eyeballing the contacts, the
> contacts
> > >>> that
> > >>> > > are in the open position look very clean. I was looking a the
> > >>> schematic
> > >>> > (a
> > >>> > > somewhat fuzzy copy) to try and determine what voltage is used
> > >>> > > across
> > >>> the
> > >>> > > coil to open/close the relay, but I could not tell. I was
> > >>> thinking this
> > >>> > > could be a way to test to make sure at least the relay(s) are
> > >>> > > opening
> > >>> and
> > >>> > > closing. If I can determine the voltage, is this a legitimate
> > >>> test? I
> > >>> > also
> > >>> > > measured the resistance across the coil and it was around 380
> ohms,
> > >>> which

> > >>> > is
> > >>> > > the resistance stamped on it, so at least I know the coil is not
> > >>> open or
> > >>> > > shorted.
> > >>> > >
> > >>> > > I will keep trying to get the plastic case off so I can
> > >>> > > actually
> > >>> > clean
> > >>> > > the contacts. Just wanted to update you on my progress.
> > >>> > >
> > >>> > > Thanks
> > >>> > >
> > >>> > > Steve
> > >>> > > K7QHU
> > >>> > >
> > >>> > > _____
> > >>> > >
> > >>> > > From: TS-520_820_530_830@yahoogroups.com
> > >>> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
> > >>> > > Breining
> > >>> > > Sent: Thursday, January 19, 2006 12:42 PM
> > >>> > > To: TS-520_820_530_830@yahoogroups.com
> > >>> > > Subject: Re: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> Reading
> > >>> > >
> > >>> > >
> > >>> > > That would indicate that you are not getting drive. And if I
> > >>> understand
> > >>> > > correctly you are also not getting any idle current. You do not
> > >>> > > need
> > >>> > drive
> > >>> > > to get idle current.
> > >>> > >
> > >>> > > Let's double check this. Mode on USB or LSB, all tubes
installed,
> > >>> SG on
> > >>> > mike
> > >>> > > gain down, Filament switch on, Meter in IP. Key rig with send
> > >>> switch and
> > >>> > > watch the IP meter as you change the Bias control in the back.
At
> > >>> > one
> > >>> > > extreme the tubes should draw a lot of current. At the other
> > >>> extreme the
> > >>> > > tubes will draw little or no current. Do you get a reading on
the
> > >>> meter
> > >>> > in
> > >>> > > any bias position. If you do it should be set for 60 MA.
> > >>> > >

> > >>> > > If you do not get a reading, do you notice a lot of heat coming
> > >>> from the
> > >>> > > final area with the bias control at one extreme or the other?
If
> > >>> > > the
> > >>> bias
> > >>> > > was working but the meter was not, the tubes would get very hot
> > >>> while in
> > >>> > > transmit with the bias control at one extreme but not the other.
> If
> > >>> they
> > >>> > do
> > >>> > > get very hot, unkey so you do not damage the tubes.
> > >>> > >
> > >>> > > Now, check again that all tubes filaments are lighted including
> the
> > >>> 12BY7.
> > >>> > > Check this out in a dark room. Be careful and don't fumble into
> > >>> the high
> > >>> > > voltage!
> > >>> > >
> > >>> > > If you get no idle current, no excess heat that changes with the
> > >>> > > bias
> > >>> > > control, and all tubes are lighted, next try removing the relays
> and
> > >>> > > inspecting the contacts. Look for burned contacts. Clean them.
> > >>> > > Remove
> > >>> only
> > >>> > 1
> > >>> > > relay at a time, as they are not the same although they look
> alike.
> > >>> > >
> > >>> > > Now I may be making a fool of myself suggesting the relays, but
in
> > >>> > > the
> > >>> > > limited time I had this afternoon, and with the very poor
diagram
> I
> > >>> have,
> > >>> > it
> > >>> > > seemed that the power source for the bias goes through Q5 on the
> RF
> > >>> board
> > >>> > > and comes to Q5 through a relay. I did not have the time to
check
> > >>> this
> > >>> > out
> > >>> > > thoroughly at this time, but it might be worth checking the
> relays.
> > >>> > > We

> > >>> are
> > >>> > > looking for a contact that is not conducting on transmit. Be
> > >>> > > careful
> > >>> when
> > >>> > > removing the covers on these relays, they are not available any
> > >>> > > more.
> > >>> > >
> > >>> > >
> > >>> > > Tell us what you find out and I will try to get a better
diagram.
> I
> > >>> have
> > >>> > > one on hard copy, but it is not here.
> > >>> > >
> > >>> > > BTW, the rig should operate with the CW key unpluged.
> > >>> > >
> > >>> > > Vy 73, Walt N9WB
> > >>> > >
> > >>> > >
> > >>> > >
> > >>> > > ----- Original Message -----
> > >>> > > From: "Stephen Davis" <sdavis@...>
> > >>> > > To: <TS-520_820_530_830@yahoogroups.com>
> > >>> > > Sent: Wednesday, January 18, 2006 7:49 PM
> > >>> > > Subject: RE: [TS-520_820_530_830] TS-820S With No Plate Current
> > >>> Reading
> > >>> > >
> > >>> > >
> > >>> > > > Hi Walt,
> > >>> > > >
> > >>> > > > Following your latest instructions, here are the results:
> > >>> > > >
> > >>> > > > 1. Both plate chokes show 0 ohms when measured as you
described.
> > >>> > > >
> > >>> > > > 2. Putting black lead to top of choke and red lead to ground,
it
> > >>> shows
> > >>> a
> > >>> > > low
> > >>> > > > resistance to start with, then builds to a high resistance
> (about
> > >>> 400k).
> > >>> > > >
> > >>> > > > 3 Putting the red lead to the top of the choke and the black
> lead
> > >>> > > to
> > >>> > > ground,
> > >>> > > > it shows a resistance of about 400k. (somehow I must of
goofed

> > >>> up my
> > >>> > > > original measurement).
> > >>> > > >
> > >>> > > > 4. I hooked up the dummy load, heater switch on, set the SG
> > >>> switch to
> > >>> > off,
> > >>> > > > meter to ALC, carrier fully clockwise. Toggled rec/send
switch
> to
> > >>> send
> > >>> > > and
> > >>> > > > held down the cw key while adjusting the drive control
> > >>> through-out its
> > >>> > > > range. No movement of the meter.
> > >>> > > >
> > >>> > > > 5. My voltmeter has a 1000 VDC plug position for the red lead
> and
> > >>> > > > on
> > >>> the
> > >>> > > > selector switch there is a 250/1000 vdc position. I would be
> > >>> extremely
> > >>> > > > cautious making any high voltage measurements.
> > >>> > > >
> > >>> > > > Thanks again for your help. It would really be neat if we can
> > >>> actually
> > >>> > > > solve this problem!
> > >>> > > >
> > >>> > > > 73
> > >>> > > >
> > >>> > > > Steve K7QHU
> > >>> > > >
> > >>> >
> > >>> >
> > >>> >
> > >>> > [Non-text portions of this message have been removed]
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> > Yahoo! Groups Links
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>> >
> > >>>
> > >>>
> > >>>

> > >>> SPONSORED LINKS
> > >>> Ham radio
> > >>> <http://groups.yahoo.com/gads?t=ms
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > >>
> >
>
&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&
> > >> .sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > >>> Craft hobby
> > >>> <http://groups.yahoo.com/gads?t=ms
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > >>
> >
>
&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=6
> > >> 0&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > >>> Hobby and craft supply
> > >>> <http://groups.yahoo.com/gads?t=ms
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > >>
> >
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >>
> >
>

&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
> > >> ply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >>>
> > >>>
> > >>>
> >
>
>>> ---
> > >>> YAHOO! GROUPS LINKS
> > >>>
> > >>> * Visit your group "TS-520_820_530_830
> > >>> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
> > >>>
> > >>> * To unsubscribe from this group, send an email to:
> > >>> TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >>>
> > >>
> >
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> > >>>
> > >>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > >>> Service <http://docs.yahoo.com/info/terms/>.
> > >>>
> > >>>
> >
>
>>> ---
> > >>>
> >
>
>>>---
> > >>>
> > >>>No virus found in this incoming message.
> > >>>Checked by AVG Free Edition.
> > >>>Version: 7.1.375 / Virus Database: 267.15.2/253 - Release Date:
> 7/02/2006
> > >>>
> > >>>
> > >>
> > >>
> > >>
> > >>
> > >> SPONSORED LINKS
> > >> Ham
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>

<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > >> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> > >> Craft
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > >> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
> > >> Hobby
> > >>
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > >>
> >
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >> and craft supply
> > >>
> > >> _____
> > >>
> > >> YAHOO! GROUPS LINKS
> > >>
> > >>
> > >>
> > >> * Visit your group "TS-520_820_530_830
> > >> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> > >>
> > >>
> > >> * To unsubscribe from this group, send an email to:
> > >> TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >>
> >
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> > >>
> > >>
> > >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service

> > >> <http://docs.yahoo.com/info/terms/> .
> > >>
> > >>
> > >> _____
> > >>
> > >>
> > >>
> > >>
> > >> [Non-text portions of this message have been removed]
> > >>
> > >>
> > >>
> > >>
> > >> Yahoo! Groups Links
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms

<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w> and craft supply

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6692. Antenna ideas/Re: Rain Gutter Antenna

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 00:14:44 UTC
From: pchapman9202003
Topic: 6579 Message: 6692

That leaves me out since I have no gutters on this house. With 28
exterior walls, I went with drip edge, HI

--- In TS-520_820_530_830@yahoogroups.com, "William Bottger"
<billabott@...> wrote:
>
> thanks to all who responded.
>
> The very comprehensive response came from K4TK, Tim A. Moore.
>
> It should be available in our next club newsletter
> <http://www.w4ap.org/html/modules.php?name=zerobeat> .
>
> He is an outstanding member of my local HAM club w4ap.org
> <http://www.w4ap.org/html/index.php> .
>
>
>
>
>
>
>
> KI4CYM, Bill
>
> 334-262-4601
>
> Packet8 Phone User
>
> 334-239-4136
>
> VoIP Rules
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

6693. Re: TS-830 w/audio problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 00:18:34 UTC
From: pchapman9202003
Topic: 6580 Message: 6693

Please post your deoxit results....Try to get rid of residue of
everything else you used prior to application.

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@...> wrote:
>
>
> Thanks for the replies! I will get some DeOxit and give all the
> suggestions a try. Any others are also welcome! Thanks again,
73,
> Bill, WB5DX.
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@> wrote:
> >
> > Waly is right on the money here. De-Oxit is a friend to those
> that own
> > older equipment.
> >
> > A thorough cleaning of all controls and contacts will breath new
> life into
> > these beasts that have been religated to the basement, attic or
> garage for a
> > while.
> >
> > You are dealing with componenets taht are over 30 years old and
> have been in
> > many unknown environments. In some cases they have either had
> little or no
> > maintenance and in others they have been allowed to just sit and
> tarnish.
> >
> > When ever trouble shooting anything, go for the simplest
solution
> first.
> > 73,
> > Norm, W3IZ
> > www.w3iz.com
> > ----- Original Message -----
> > From: "Walt Breining" <n9wb@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Thursday, February 02, 2006 5:34 AM
> > Subject: Re: [TS-520_820_530_830] TS-830 w/audio problem
> > >
> > >
> > > I would use de-Oxit to clean these contacts...

> >
> > >...Also clean the AF pot with De Oxit. Actually problems
caused
> by dirty
> > >contacts often are affected by changes in gain.
> >
> > > Vy 73, Walt N9WB
> >
>

6694. Re: Kenwood TS 520 neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 00:26:13 UTC
From: pchapman9202003
Topic: 6606 Message: 6694

Like birds on a high voltage line do not have arms to touch the
other side. My only regret is that squirrels need longer arms.

--- In TS-520_820_530_830@yahoogroups.com, <amfone@...> wrote:
>
> Be careful there is HV present use insulated tool only.. keep
one had in your pocket at all times do not have both hands touch the
rig......
>
> Tune the rig to 10 meters the highest frequency.... anywhere on
10.....meters
> Tune into a dummy load and a watt meter....
> make sure the maximum output occurs at the dip on the plate
meter...
> When that occurs that is proper neutralization..
> 73 Tim
> wb8uhz
> ----- Original Message -----
> From: wayneg
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, February 04, 2006 10:36 AM
> Subject: [TS-520_820_530_830] Kenwood TS 520 neutralization
>
>
> Just received new tubes for my 520 and have to go through the
> neutralization. I do not have a RF VTVM but think I read
somewhere
> that a separate receiver could be used for peaking? Have always
had
> solid state rigs so this is a very new experience. Any ideas or
help
> would sure be appreciated.
> Thank you.
>
> Wayne, NM3B
>
>
>
>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.

>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ---

>
>
>
> [Non-text portions of this message have been removed]
>

6695. Re: TS-830 w/audio problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 01:32:09 UTC
From: Bill
Topic: 6580 Message: 6695

Thanks for reminding me. I did get some DeoxIt (at Frys) and used
it on all the audio component connections that looked like might
affect the problem. Well, it turned out to not be the af - pot.
But, rather, the headphone jack in the back. I simply spayed a
small amount of the product in the jack (placing a paper towel on
the otherside to prevent it spitting all over the inside pc board).
And that did it! No further fading or crackles in the audio.

Of course, there after I had the output problem and the rig was
scheduled for band switch surgery anyway - so I don't have it right
now. Thanks for everyone's help.

Now to find a cheap mc-50 mic!

73, Bill

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
<p_chap@...> wrote:
>
> Please post your deoxit results....Try to get rid of residue of
> everything else you used prior to application.
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@> wrote:
> >
> >
> > Thanks for the replies! I will get some DeOxit and give all the
> > suggestions a try. Any others are also welcome! Thanks again,
> 73,
> > Bill, WB5DX.
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@> wrote:
> > >
> > > Waly is right on the money here. De-Oxit is a friend to those
> > that own
> > > older equipment.
> > >
> > > A thorough cleaning of all controls and contacts will breath
new
> > life into
> > > these beasts that have been religated to the basement, attic
or
> > garage for a
> > > while.
> > >

> > > You are dealing with componenets taht are over 30 years old
and
> > have been in
> > > many unknown environments. In some cases they have either had
> > little or no
> > > maintenance and in others they have been allowed to just sit
and
> > tarnish.
> > >
> > > When ever trouble shooting anything, go for the simplest
> solution
> > first.
> > > 73,
> > > Norm, W3IZ
> > > www.w3iz.com
> > > ----- Original Message -----
> > > From: "Walt Breining" <n9wb@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Thursday, February 02, 2006 5:34 AM
> > > Subject: Re: [TS-520_820_530_830] TS-830 w/audio problem
> > >
> > >
> > > > I would use de-Oxit to clean these contacts...
> > >
> > > >...Also clean the AF pot with De Oxit. Actually problems
> caused
> > by dirty
> > > >contacts often are affected by changes in gain.
> > >
> > > > Vy 73, Walt N9WB
> > >
> >
>

6696. No Reply!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 03:11:59 UTC
From: Bill Barron
Topic: 6696 Message: 6696

Golly Guys!

Please do not click "reply" in your posts!

The resulting HUGE emails are annoying!

How hard can it be to delete the attached prior messages?

Bill W1WAB

6697. Re: Some more thoughts on matched valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 04:15:47 UTC
From: vk4oc
Topic: 6457 Message: 6697

--- In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo
<VK5KYO@...> wrote:
Hi VK5KYO Joan de
I feel that in the older days they used have valve testers,did they
have 6volt or 12volts in testing the valves.I just wonder have many
people received the wrong reading on the testers between 6 volts and
12 volts.
Joan I would say you are right in that this issue on repairs and how
many blokes have taken the time to think about a matched pair of
valves 6146B.....Hmmm makes you think.
You would assume that the big company's in those days checked there
valves for quailty control.
Or ! did they, my idea is that a lot amateurs out there thew away
some times, good valve with a wrong readings. Correct me If I wrong?
De.Dennis vk4oc
Cheers

> Hi everybody
>
> I know there has been lots of discussions in the past regarding
matched
> pairs of 6146's for the Kenwoods and alike, and the answer may
have
> already been posted, but I have just repaired 2 TS-830's with
output
> power problems which left me with some questions.
> During the quest to resolve the issues, I was thinking a little
more on
> the issue of matched valves.
> The owner of the radio I was repairing, send me a matched pair of
6146's
> and on each of the valves was a number written on it.
> Can I assume this is the gain of the tube, or is it the current
drawn
> under certain test parameters, and the fact that both numbers are
the
> same, I will say that they are a match?
> The other question I was left pondering with is when I pulled my
RCA
> test tubes out (which happens to have 12 volt filaments), and
rewired
> the set back to standard 6 volt operation, will it be as good?
> When the experts check new tubes for so called matched
characteristics,
> are they applying 6volts to each filament and testing the gain of

a tube
> individually, or are they putting a pair of tubes with their
heater
> filaments in series (as Kenwood is wired this way), and then
checking
> for their individual gain.
> The results will be different and for those that know, can you
tell me
> if it is significant or not.
> The reason why I say it will be different is because my experience
has
> been that the filament of each 6146 is not exactly the same
> resistance(call it manufacturers tolerance), and if you measure
the
> voltage drop across each tube, it maybe 6.0 volts for one and 6.4
volts
> for the other. That is pretty well what I measure.
> This is a bad thing because the tube with a higher resitance will
also
> have a higher voltage drop across the heater and will therefore be
more
> stressed.
> Which begs the question whether it will be working harder than
it's
> mate who is having a holiday.
> I know the valves will still work and more than likely put out
100++
> Watts, but it does sort of blow the matched pair theory.
> I'd would call them truly matched if both the filaments have equal
> resistance and therefore hopefully the same heat value generated
to
> promote emissions and finally they have the same gain.
> If the tubes were only tested individually with 6 volts applied to
the
> heaters, then the only way we could correct the problem, is to
balance
> out the weaker valve with a bit of extra resistance parallel with
the
> heater so that both 6146's will have equal heater voltage.
> I hope you get the drift of what I am trying to say.
> I'd appreciate your thoughts on this.
> One might say that it is too much theory and that in the practical
sense
> it wont make a scrap of difference.
> It may well be the reason why there have been some premature
failures,
> especially when one starts to mix different brands of 6146's.
> Illustration time - Different manufacturers of clothing are all
asked to
> produce a size 16 garment, and yet the final product all seem to

differ
> a little in size.
> To stay on the humurous side, my last statistic count of 5, goes
to the
> most popular name in this group, and that is"Bill". The Bill's
have it.
> Because of this fact, I like to drag these wonderful gentlemen
into
> another illustration, and say that allthough they carry the same
name,
> all Bills are not the same, in fact they are all unique.
> So how can you ever have matched pairs of 6146's??
>
> Joan VK5KYO
>

6698. Re: [TS-520_820_530_830] No Reply!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 04:47:18 UTC
From: Charles Mortimer
Topic: 6696 Message: 6698

hallo bill
it is extreamley good for us who are following a thread
makes it a lot easier
charles

----- Original Message -----
From: "Bill Barron" <W1WAB@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, February 13, 2006 11:11 AM
Subject: [TS-520_820_530_830] No Reply!

> Golly Guys!
>
> Please do not click "reply" in your posts!
>
> The resulting HUGE emails are annoying!
>
> How hard can it be to delete the attached prior messages?
>
> Bill W1WAB
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6699. Re: [TS-520_820_530_830] Re: Some more thoughts on matched valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 11:24:14 UTC
From: Joan de vk5kyo
Topic: 6457 Message: 6699

Hi Dennis

Just a quick note.
It baffles me that you get the messages I post and yet, right now I still havent received a ping of my own message.
Something odd going on.
Dennis, the consenses are that matched pairs are not really an issue for radio but more so for audio amplifiers so that crossover distortion is minimised.
But I thought I put it to the group and see what they thought about matching the filament voltage, so that at least each valve has a better change of pulling the load and may give more longevity, or if it is a real bad match, one that is stressed is surely wide open to premature failure.
I was also interested if anybody knew how the matching process was achieved. I suspect it is on a valve by valve basis.
I suspect my theory of different filament resistances wouldthen totally upset the matching theory if filaments are put in series as is done in the Kenwoods.
I am going North for work tomorrow, about 180km and I am hoping to get a HF going on the work 4WD. While the other person is doing their survey work, I might get time to do some wiring. I might be able to have a QSO with you sometime. Most our sites are on hilltops to take off should be good.
Anyway, got to pack those 830's and send them back.

73 for now

Joan

6700. Re: [TS-520_820_530_830] No Reply!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 14:38:39 UTC
From: KD5SFA
Topic: 6696 Message: 6700

I am not a moderator here but I am on some other groups.

These are my thoughts on the subject...

The use of reply is normal and expected. But the trimming
of posts to reduce the amount sent but leaving enough content
for the subject at hand is very important. The is especially
true of digests. At the very least it helps to remove all the
Yahoo inserted fluff. Not everyone has highspeed internet
access. I enjoy my T3 access while at work but living in a rural
area DSL and cable are not available. Dialup is slow at best and
the other options are expensive.

73,
Jon
KD5SFA

-----Original Message-----
>From: Charles Mortimer <mortimer@...>
>Sent: Feb 12, 2006 10:47 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] No Reply!
>
>hallo bill
>it is extreamley good for us who are following a thread
>makes it a lot easier
>charles
>
>
>----- Original Message -----
>From: "Bill Barron" <W1WAB@...>
>To: <TS-520_820_530_830@yahoogroups.com>
>Sent: Monday, February 13, 2006 11:11 AM
>Subject: [TS-520_820_530_830] No Reply!
>
>
>> Golly Guys!
>>
>> Please do not click "reply" in your posts!
>>
>> The resulting HUGE emails are annoying!
>>
>> How hard can it be to delete the attached prior messages?
>>
>> Bill W1WAB
>>

6701. Re: Current surge

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 14:56:52 UTC
From: Larry
Topic: 6677 Message: 6701

--- In TS-520_820_530_830@yahoogroups.com, "Kim" <kimmed51@...> wrote:
>
> My TS 830S was damaged by a current surge. A few components were
> burned on the IF board and a few on the RF board. The radio no longer
> transmits but still receives. I'n not sure if the cause is in the
> voltage regulation circuitry or if current was drawn from a failure
> near the tubes. Any suggestions?
>
If you could identify the specific components, that would help. I'd
look very carefully at all power supply voltages. I'm surprised you had
a current surge, and now it's operating normally. What were the
circumstances when the surge occurred?

6702. Re: [TS-520_820_530_830] Re: Some more thoughts on matched valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 18:51:19 UTC
From: Peter A Markavage
Topic: 6457 Message: 6702

For 520, 530, 820, 830, or any rig that uses a pair of 6146's in parallel in the final, it makes no difference if they are "matched" or not. As long as they are reasonably close in performance (not one weak and one good one, etc.) and they are identical in number (pair of A's, pair of W's, etc.). they should work fine. Trying to find or paying for "matched" tubes that are used in a parallel combination is a waste of time and money. There is no benefit.

Pete, wa2cwa

On Mon, 13 Feb 2006 21:54:14 +1030 Joan de vk5kyo <VK5KYO@...> writes:
Hi Dennis

Just a quick note.
It baffles me that you get the messages I post and yet, right now I still havent received a ping of my own message.
Something odd going on.
Dennis, the consenses are that matched pairs are not really an issue for radio but more so for audio amplifiers so that crossover distortion is minimised.
But I thought I put it to the group and see what they thought about matching the filament voltage, so that at least each valve has a better change of pulling the load and may give more longevity, or if it is a real bad match, one that is stressed is surely wide open to premature failure.
I was also interested if anybody knew how the matching process was achieved. I suspect it is on a valve by valve basis.
I suspect my theory of different filament resistances wouldthen totally upset the matching theory if filaments are put in series as is done in the Kenwoods.
I am going North for work tomorrow, about 180km and I am hoping to get a HF going on the work 4WD. While the other person is doing their survey work, I might get time to do some wiring. I might be able to have a QSO with you sometime. Most our sites are on hilltops to take off should be good.
Anyway, got to pack those 830's and send them back.

73 for now

Joan

SPONSORED LINKS

[Non-text portions of this message have been removed]

6703. TS-820S Display Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 22:04:33 UTC
From: wb4ouf
Topic: 6703 Message: 6703

Well, I tried everything suggested. I disassembeld the DG-1 and was really shocked to see the poor solder job that was done during manufacture. I am the original owner, so I know no one has been in there. I did re-solder all the connections with a 25W iron and, was very careful with that task. Cleaned everything up, checked for solder bridges, re-assembled and voila!..... blank display. Same as before. Seems like it may be a component failue but, I am puzzled by the fact that there is absolutely no display..... it's out completely and the 5V supply is OK. Lack of test equipment limits my ability to go further but, thanks to all that had suggestions..... May just disassemble again and see if I missed anything. Thank you and wish me luck... PS: anyone got a DG-1 for sale??
73s, Frank

6704. Re: Current surge

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-13 22:45:20 UTC
From: Kim
Topic: 6677 Message: 6704

The radio was turned on with the heater switch off and was not being
used. I smelled a burning smell and quickly unplugged it. The burned
components are R203 2W metal film resistor and the 330V electrolytic
caps next to it on the IF board. On the RF board it's a few of the
slug tuned coils on the last row closest to the finals cage.
It's not transmitting but still receives fine. Hope that helps. Kim

--- In TS-520_820_530_830@yahoogroups.com, "Larry" <l-sherwood@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kim" <kimmed51@> wrote:
> >
> > My TS 830S was damaged by a current surge. A few components were
> > burned on the IF board and a few on the RF board. The radio no longer
> > transmits but still receives. I'n not sure if the cause is in the
> > voltage regulation circuitry or if current was drawn from a failure
> > near the tubes. Any suggestions?
> >
> If you could identify the specific components, that would help. I'd
> look very carefully at all power supply voltages. I'm surprised you had
> a current surge, and now it's operating normally. What were the
> circumstances when the surge occurred?
>

6705. TS 520 unstable meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-14 00:40:20 UTC
From: wayneg
Topic: 6705 Message: 6705

Trying to figure out why the meter sometimes drops to zero while transmitting and output still holds steady. It will usually show accurate readings while loading into a dummy load but on occasion the meter will not move so I load it according to my Autek watt/swr meter. Normally when start transmitting it will gradually start moving. A few minutes ago was transmitting with 50 watts output according to the Autek meter and was showing 160 ma on the rig meter. The meter deflection later may slowly drop and go to zero ma but the Autek meter will still show a steady 50 watts out then it will probably come right back up to 160 ma? The meter deflection on receive is always fine and will always shows an accurate deflection.

Any ideas or suggestions?
Thanks.
Wayne, NM3B

6706. Re: [TS-520_820_530_830] TS 520 unstable meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-14 12:26:20 UTC
From: Walt Breining
Topic: 6705 Message: 6706

There is a adjustment pot on the side for this meter setting in the RF mode. It is called the RF volt control. It is on page 13 of the manual. Clean this control using De Oxit or rubbing alcohol.

You could also clean the multimeter switch. This is the switch that changes the meter between ALC,IP,RF,HV.

Does it do this in the IP, or HV position or Just RF?

Vy 73, Walt N9WB

----- Original Message -----
From: "wayneg" <wayne15857@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, February 13, 2006 7:40 PM
Subject: [TS-520_820_530_830] TS 520 unstable meter

> Trying to figure out why the meter sometimes drops to zero while
> transmitting and output still holds steady. It will usually show
> accurate readings while loading into a dummy load but on occasion the
> meter will not move so I load it according to my Autek watt/swr meter.
> Normally when start transmitting it will gradually start moving. A few
> minutes ago was transmitting with 50 watts output according to the
> Autek meter and was showing 160 ma on the rig meter. The meter
> deflection later may slowly drop and go to zero ma but the Autek meter
> will still show a steady 50 watts out then it will probably come right
> back up to 160 ma? The meter deflection on receive is always fine and
> will always shows an accurate deflection.
>
> Any ideas or suggestions?
> Thanks.
> Wayne, NM3B
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

>

6707. Re: TS 520 unstable meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-14 15:22:49 UTC
From: wayneg
Topic: 6705 Message: 6707

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> There is a adjustment pot on the side for this meter setting in the
RF mode.
> It is called the RF volt control. It is on page 13 of the manual.
Clean this
> control using De Oxit or rubbing alcohol.
>
> You could also clean the multimeter switch. This is the switch that
changes
> the meter between ALC,IP,RF,HV.
>
> Does it do this in the IP, or HV position or Just RF?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "wayneg" <wayne15857@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, February 13, 2006 7:40 PM
> Subject: [TS-520_820_530_830] TS 520 unstable meter
>
>
> > Trying to figure out why the meter sometimes drops to zero while
> > transmitting and output still holds steady. It will usually show
> > accurate readings while loading into a dummy load but on occasion
the
> > meter will not move so I load it according to my Autek watt/swr
meter.
> > Normally when start transmitting it will gradually start moving.
A few
> > minutes ago was transmitting with 50 watts output according to the
> > Autek meter and was showing 160 ma on the rig meter. The meter
> > deflection later may slowly drop and go to zero ma but the Autek
meter
> > will still show a steady 50 watts out then it will probably come
right
> > back up to 160 ma? The meter deflection on receive is always
fine and
> > will always shows an accurate deflection.
> >
> > Any ideas or suggestions?
> > Thanks.
> > Wayne, NM3B

> >
> >Walt,
Thanks for the information and will certainly try DeOxit.
Bought this rig about a month ago and want to get all the "bugs" out
of it. It is in beautiful condition but imagine it set around for a
while not being used and that is never any good for a tube rig. I
have been operating it steady and that is the only problem I found.
Thanks also for the neutralizing tips of a week ago and worked out
fine. Have been running it pretty steady this morning on 40 meters
and meter has been holding fine so maybe a little DeOxit will do the
trick so to speak and plan to use that this afternoon when I get back
from Rat Shack.
Thanks again.
Wayne, NM3B
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

6708. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-14 17:37:58 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 6708

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /MANUALS/TS-820S/820manuals_readme.txt
Uploaded by : evokeravenswood <evokefrank@...>
Description : Download TS-820S Service/Operating Manuals (mirror)

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/MANUALS/TS-820S/820manuals_readme.t
xt

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

evokeravenswood <evokefrank@...>

6709. TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 00:20:16 UTC
From: Irv
Topic: 6709 Message: 6709

Thanks to all who replied. I received the following info from
Cliff Holland, KA5IPF:

Go to http://www.kenselectronics.com/lists/relays.htm and down toward
the bottom he has listed a direct replacement. I haven't tried it but
was given the info by someone who had and was satisfied.

I went to the link Cliff game me -- Ken's Electronics, and
found the following info...

MH4P-12VDC-300 ohm Omron Kenwood T599D,
TS820 S51-4031-05, use 401013-S

401013-S term 12VDC F.BV.153-b31/103, replaces
MH4P-12VDC-300ohm in T599D & TS-820 $18.00

I guess this is the place to try.

Thanks again for all the help in leading me to this -- I think
it's our last chance! Special thanks again to Cliff!

Irv VE6BP

6710. Re: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 02:13:15 UTC
From: Bill Richarz
Topic: 6709 Message: 6710

Thanks Irv,

And to the group. I called Ken's and ordered the replacement relay for the TS-820S...cost $18.00 plus shipping by US mail.

I wanted to check the T/R relay in the TS-820S and can't seem to locate it. Anyone got a suggestion as how to find it? Saw a small metal square box. Didn't have time to dig further. Wanted to check contacts on it too while I have it open.

tnx, de Bill, N4DH
--- Irv <finkirv@...> wrote:

> Thanks to all who replied. I received the following
> info from
> Cliff Holland, KA5IPF:
>
> Go to
> http://www.kenselectronics.com/lists/relays.htm and
> down toward
> the bottom he has listed a direct replacement. I
> haven't tried it but
> was given the info by someone who had and was
> satisfied.
>
> I went to the link Cliff game me -- Ken's
> Electronics, and
> found the following info...
>
> MH4P-12VDC-300 ohm Omron Kenwood T599D,
> TS820 S51-4031-05, use 401013-S
>
> 401013-S term 12VDC F.BV.153-b31/103, replaces
> MH4P-12VDC-300ohm in T599D & TS-820 $18.00
>
> I guess this is the place to try.
>
> Thanks again for all the help in leading me to this
> -- I think
> it's our last chance! Special thanks again to
> Cliff!
>

> Irv VE6BP
>
>
>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6711. thanks!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 02:35:05 UTC
From: John Holden
Topic: 1381 Message: 6711

...to all who hold similar thoughts on the message threads. Some simple cut and paste will eliminate a LOT the repeated

"_____
_____

Yahoo! Groups Links

---"
that kept filling up the message posts. We hopefully now know about the group, and where those posts orginate! ;)

And for some on-topic feedback..thanks for the link to that relay information. My 520 may be back up fully functional if I can replace that relay..its been too long that I have been off the HF airwaves.

73's to one and all...

John/N7QIV

6712. RE: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 03:47:18 UTC
From: Stephen Davis
Topic: 6709 Message: 6712

Hi Bill,

There are 2 relays. One is under the small square box between the final board and the back side of the radio (next to the SG switch). The other is on the relay board just about in the middle of the layout. This one is not covered by a metal box.

I learned this from the group in the process of trying to fix my TS-820S. Still working on it.

Steve - K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill Richarz
Sent: Tuesday, February 14, 2006 7:13 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Thanks Irv,

And to the group. I called Ken's and ordered the replacement relay for the TS-820S...cost $18.00 plus shipping by US mail.

I wanted to check the T/R relay in the TS-820S and can't seem to locate it. Anyone got a suggestion as how to find it? Saw a small metal square box. Didn't have time to dig further. Wanted to check contacts on it too while I have it open.

tnx, de Bill, N4DH
--- Irv <finkirv@...> wrote:

>
> Thanks to all who replied. I received the following
> info from
> Cliff Holland, KA5IPF:
>
> Go to
> http://www.kenselectronics.com/lists/relays.htm and
> down toward
> the bottom he has listed a direct replacement. I
> haven't tried it but

> was given the info by someone who had and was
> satisfied.
>
> I went to the link Cliff game me -- Ken's
> Electronics, and
> found the following info...
>
> MH4P-12VDC-300 ohm Omron Kenwood T599D,
> TS820 S51-4031-05, use 401013-S
>
> 401013-S term 12VDC F.BV.153-b31/103, replaces
> MH4P-12VDC-300ohm in T599D & TS-820 $18.00
>
> I guess this is the place to try.
>
> Thanks again for all the help in leading me to this
> -- I think
> it's our last chance! Special thanks again to
> Cliff!
>
> Irv VE6BP
>
>
>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6713. RE: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 05:27:17 UTC
From: Bill Richarz
Topic: 6709 Message: 6713

Thanks Stephen,

Does that small square box need to be removed to get
to the T/R relay?

tnx, de Bill, N4DH

--- Stephen Davis <sdavis@...> wrote:

> Hi Bill,
>
> There are 2 relays. One is under the small
> square box between the
> final board and the back side of the radio (next to
> the SG switch). The
> other is on the relay board just about in the middle
> of the layout. This
> one is not covered by a metal box.
>
> I learned this from the group in the process of
> trying to fix my
> TS-820S. Still working on it.
>
> Steve - K7QHU
>
> -----
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On
> Behalf Of Bill Richarz
> Sent: Tuesday, February 14, 2006 7:13 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820 Relay
> Replacement - Hopefully Found
> one!
>
>
> Thanks Irv,
>
> And to the group. I called Ken's and ordered the
> replacement relay for the TS-820S...cost $18.00 plus
> shipping by US mail.
>
> I wanted to check the T/R relay in the TS-820S and
> can't seem to locate it. Anyone got a suggestion as

> how to find it? Saw a small metal square box.
> Didn't
> have time to dig further. Wanted to check contacts
> on
> it too while I have it open.
>
> tnx, de Bill, N4DH
> --- Irv <finkirv@...> wrote:
>
> >
> > Thanks to all who replied. I received the
> following
> > info from
> > Cliff Holland, KA5IPF:
> >
> > Go to
> > http://www.kenselectronics.com/lists/relays.htm
> and
> > down toward
> > the bottom he has listed a direct replacement. I
> > haven't tried it but
> > was given the info by someone who had and was
> > satisfied.
> >
> > I went to the link Cliff game me -- Ken's
> > Electronics, and
> > found the following info...
> >
> > MH4P-12VDC-300 ohm Omron Kenwood T599D,
> > TS820 S51-4031-05, use 401013-S
> >
> > 401013-S term 12VDC F.BV.153-b31/103, replaces
> > MH4P-12VDC-300ohm in T599D & TS-820 $18.00
> >
> > I guess this is the place to try.
> >
> > Thanks again for all the help in leading me to
> this
> > -- I think
> > it's our last chance! Special thanks again to
> > Cliff!
> >
> > Irv VE6BP
> >
> >
> >
> >
> >
> >
> >
> >

> >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> -----
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> "
> on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
>
> * Your use of Yahoo! Groups is subject to the

> Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6714. RES: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 10:27:34 UTC
From: PY2FWA
Topic: 6709 Message: 6714

HI Bill

In " photos" on this group there are one photo that can help you to
locate the T/R relay...See album of PY2FWA, last photo.

73

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Bill Richarz
Enviada em: quarta-feira, 15 de fevereiro de 2006 02:27
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully
Found one!

Thanks Stephen,

Does that small square box need to be removed to get
to the T/R relay?

tnx, de Bill, N4DH

--- Stephen Davis <sdavis@...> wrote:

> Hi Bill,
>
> There are 2 relays. One is under the small
> square box between the
> final board and the back side of the radio (next to
> the SG switch). The
> other is on the relay board just about in the middle
> of the layout. This
> one is not covered by a metal box.
>
> I learned this from the group in the process of
> trying to fix my
> TS-820S. Still working on it.
>
> Steve - K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com

> [mailto:TS-520_820_530_830@yahoogroups.com] On
> Behalf Of Bill Richarz
> Sent: Tuesday, February 14, 2006 7:13 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820 Relay
> Replacement - Hopefully Found
> one!
>
>
> Thanks Irv,
>
> And to the group. I called Ken's and ordered the
> replacement relay for the TS-820S...cost $18.00 plus
> shipping by US mail.
>
> I wanted to check the T/R relay in the TS-820S and
> can't seem to locate it. Anyone got a suggestion as
> how to find it? Saw a small metal square box.
> Didn't
> have time to dig further. Wanted to check contacts
> on
> it too while I have it open.
>
> tnx, de Bill, N4DH
> --- Irv <finkirv@...> wrote:
>
> >
> > Thanks to all who replied. I received the
> following
> > info from
> > Cliff Holland, KA5IPF:
> >
> > Go to
> > http://www.kenselectronics.com/lists/relays.htm
> and
> > down toward
> > the bottom he has listed a direct replacement. I
> > haven't tried it but
> > was given the info by someone who had and was
> > satisfied.
> >
> > I went to the link Cliff game me -- Ken's
> > Electronics, and
> > found the following info...
> >
> > MH4P-12VDC-300 ohm Omron Kenwood T599D,
> > TS820 S51-4031-05, use 401013-S
> >
> > 401013-S term 12VDC F.BV.153-b31/103, replaces
> > MH4P-12VDC-300ohm in T599D & TS-820 $18.00

> >
> > I guess this is the place to try.
> >
> > Thanks again for all the help in leading me to
> this
> > -- I think
> > it's our last chance! Special thanks again to
> > Cliff!
> >
> > Irv VE6BP
> >
> >
> >
> >
> >
> >
> >
> >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
>
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
>
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=

>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
5w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> "
> on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
>
>
> * Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft

<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w> and craft supply

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6715. RE: [TS-520_820_530_830] TS 520 unstable meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 15:33:39 UTC
From: Hauser, Ron M.
Topic: 6705 Message: 6715

Hi Walt and Wayne. Wayne, I'm interested to know if you experience erroneous meter readings on other settings besides RF? Do you see it on received signal or drive level when tuning the drive? I have a very similary symptom on my 830, the meter does not move for low deflections. For received signals, I don't get deflection until about s6 signal strength. Signals are there, the receive sensitivity is ok, but no meter twitch. While tuning the drive with the CAR at low levels, I will see my external power meter twitch up, and not see the meter on the rig move. I then turn the CAR up and get a drive indication, which shows that I was near the peak.

I'm pretty sure I need to deOxit _something_, but I've been mulling over what. :) I'll try the RF Volt pot on back, and I'm planning to deOxit the calibration pots for the meter. I'll post my results, and Wayne, I'd appreciate if you would also as it may provide me some clues.

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Tuesday, February 14, 2006 6:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS 520 unstable meter

There is a adjustment pot on the side for this meter setting in the RF mode.
It is called the RF volt control. It is on page 13 of the manual. Clean this
control using De Oxit or rubbing alcohol.

You could also clean the multimeter switch. This is the switch that changes
the meter between ALC,IP,RF,HV.

Does it do this in the IP, or HV position or Just RF?

Vy 73, Walt N9WB

----- Original Message -----
From: "wayneg" <wayne15857@...>
To: <TS-520_820_530_830@...m>
Sent: Monday, February 13, 2006 7:40 PM
Subject: [TS-520_820_530_830] TS 520 unstable meter

> Trying to figure out why the meter sometimes drops to zero while
> transmitting and output still holds steady. It will usually show
> accurate readings while loading into a dummy load but on occasion the
> meter will not move so I load it according to my Autek watt/swr meter.
> Normally when start transmitting it will gradually start moving. A few
> minutes ago was transmitting with 50 watts output according to the
> Autek meter and was showing 160 ma on the rig meter. The meter
> deflection later may slowly drop and go to zero ma but the Autek meter
> will still show a steady 50 watts out then it will probably come right
> back up to 160 ma? The meter deflection on receive is always fine and
> will always shows an accurate deflection.
>
> Any ideas or suggestions?
> Thanks.
> Wayne, NM3B
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

Yahoo! Groups Links

6716. Initial position of LOAD control.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 15:35:00 UTC
From: py2fwa
Topic: 6716 Message: 6716

Hi Group:

My doubt is : Which is the initial position of control ""LOAD"" ?, Center, max ou minimum ? for initial tunning on the TS820S. DOnt have this information on the manual.

6717. RE: [TS-520_820_530_830] Initial position of LOAD control.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 16:21:34 UTC
From: E Lange
Topic: 6716 Message: 6717

Place it in the center position to start with then adjust it for peak rf
output.
Eric

>From: "py2fwa" <py2fwa@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Initial position of LOAD control.
>Date: Wed, 15 Feb 2006 15:35:00 -0000
>
>Hi Group:
>
>
>My doubt is : Which is the initial position of control ""LOAD"" ?,
>Center, max ou minimum ? for initial tunning on the TS820S. DOnt have
>this information on the manual.
>
>
>

_____
Take advantage of powerful junk e-mail filters built on patented Microsoft?
SmartScreen Technology.
http://join.msn.com/?pgmarket=en-ca&page=byoa/prem&xAPID=1994&DI=1034&SU=http://hotmail.co
m/enca&HL=Market_MSNIS_Taglines
Start enjoying all the benefits of MSN? Premium right now and get the
first two months FREE*.

6718. RES: [TS-520_820_530_830] Initial position of LOAD control.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 17:38:34 UTC
From: PY2FWA
Topic: 6716 Message: 6718

Ok Eric,

I did try to find some information on the manual, but I did not find
anything about this controls on initial tunning.

Thanks,

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de E Lange
Enviada em: quarta-feira, 15 de fevereiro de 2006 13:22
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] Initial position of LOAD control.

Place it in the center position to start with then adjust it for peak rf

output.
Eric

>From: "py2fwa" <py2fwa@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Initial position of LOAD control.
>Date: Wed, 15 Feb 2006 15:35:00 -0000
>
>Hi Group:
>
>
>My doubt is : Which is the initial position of control ""LOAD"" ?,
>Center, max ou minimum ? for initial tunning on the TS820S. DOnt have
>this information on the manual.
>
>
>

Take advantage of powerful junk e-mail filters built on patented
MicrosoftR
SmartScreen Technology.
http://join.msn.com/?pgmarket=en-ca&page=byoa/prem&xAPID=1994&DI=1034&SU
=http://hotmail.com/enca&HL=Market_MSNIS_Taglines
Start enjoying all the benefits of MSNR Premium right now and get the
first two months FREE*.

Yahoo! Groups Links

6719. MC 50 Mic

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-15 19:20:45 UTC
From: Graham
Topic: 6719 Message: 6719

One on eBay at the moment

5867348979

73

Graham [who actually prefers his Shure 444D <smile>]

6720. Re: MC 50 Mic

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 03:54:24 UTC
From: Bill
Topic: 6719 Message: 6720

Thanks Graham,

I will keep an eye on it!

Bill

--- In TS-520_820_530_830@yahoogroups.com, "Graham" <graham@...> wrote:
>
> One on eBay at the moment
>
> 5867348979
>
> 73
>
> Graham [who actually prefers his Shure 444D <smile>]
>

6721. Re: RES: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 05:22:41 UTC
From: Bill Richarz
Topic: 6709 Message: 6721

Tnx Alvaro,

Would you know off-hand how you would go about
removing and replacing the relay and where a
replacement might be found?

tnx, de Bill, N4DH

--- PY2FWA <py2fwa@...> wrote:

> HI Bill
>
> In " photos" on this group there are one photo that
> can help you to
> locate the T/R relay...See album of PY2FWA, last
> photo.
>
> 73
>
> Alvaro
> PY2FWA
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome
> de Bill Richarz
> Enviada em: quarta-feira, 15 de fevereiro de 2006
> 02:27
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: RE: [TS-520_820_530_830] TS-820 Relay
> Replacement - Hopefully
> Found one!
>
> Thanks Stephen,
>
> Does that small square box need to be removed to get
> to the T/R relay?
>
> tnx, de Bill, N4DH
>
> --- Stephen Davis <sdavis@...> wrote:
>
> > Hi Bill,
> >

> > There are 2 relays. One is under the small
> > square box between the
> > final board and the back side of the radio (next
> to
> > the SG switch). The
> > other is on the relay board just about in the
> middle
> > of the layout. This
> > one is not covered by a metal box.
> >
> > I learned this from the group in the process
> of
> > trying to fix my
> > TS-820S. Still working on it.
> >
> > Steve - K7QHU
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On
> > Behalf Of Bill Richarz
> > Sent: Tuesday, February 14, 2006 7:13 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820 Relay
> > Replacement - Hopefully Found
> > one!
> >
> >
> > Thanks Irv,
> >
> > And to the group. I called Ken's and ordered the
> > replacement relay for the TS-820S...cost $18.00
> plus
> > shipping by US mail.
> >
> > I wanted to check the T/R relay in the TS-820S and
> > can't seem to locate it. Anyone got a suggestion
> as
> > how to find it? Saw a small metal square box.
> > Didn't
> > have time to dig further. Wanted to check
> contacts
> > on
> > it too while I have it open.
> >
> > tnx, de Bill, N4DH
> > --- Irv <finkirv@...> wrote:
> >
> > >

> > > Thanks to all who replied. I received the
> > following
> > > info from
> > > Cliff Holland, KA5IPF:
> > >
> > > Go to
> > > http://www.kenselectronics.com/lists/relays.htm
> > and
> > > down toward
> > > the bottom he has listed a direct replacement. I
> > > haven't tried it but
> > > was given the info by someone who had and was
> > > satisfied.
> > >
> > > I went to the link Cliff game me -- Ken's
> > > Electronics, and
> > > found the following info...
> > >
> > > MH4P-12VDC-300 ohm Omron Kenwood T599D,
> > > TS820 S51-4031-05, use 401013-S
> > >
> > > 401013-S term 12VDC F.BV.153-b31/103, replaces
> > > MH4P-12VDC-300ohm in T599D & TS-820 $18.00
> > >
> > > I guess this is the place to try.
> > >
> > > Thanks again for all the help in leading me to
> > this
> > > -- I think
> > > it's our last chance! Special thanks again to
> > > Cliff!
> > >
> > > Irv VE6BP
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam
> > protection around
> > http://mail.yahoo.com
> >
> >

> >
> > SPONSORED LINKS
> > Ham
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> >
>
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > radio
> > Craft
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> >
>
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > hobby
> > Hobby
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> &w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
> 5w>
> > and craft supply
> >
> > _____
> >
> > YAHOO! GROUPS LINKS
> >
> >
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830>
> "
> > on the web.
> >
> >
> > * To unsubscribe from this group, send an
> email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >

>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
> be>
> >
> >
> >
> > * Your use of Yahoo! Groups is subject to the
> > Yahoo! Terms of Service
> > <http://docs.yahoo.com/info/terms/> .
> >
> >
> > _____
> >
> >
> >
> >
> > [Non-text portions of this message have been
> > removed]
> >
> >
>
>
> ~---~
>
=== message truncated ===

~---~
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6722. RES: RES: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 11:06:59 UTC
From: PY2FWA
Topic: 6709 Message: 6722

Hi Bill;

You need to loose 2 screws on that blindage(small square box) to have access to that relay.(you can see the photo in my album),first do try to clean the relay contact with deoxit(D5).. and after put some conservIt(P5).
This relay is very hard to find.

73
Alvaro

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Bill Richarz
Enviada em: quinta-feira, 16 de fevereiro de 2006 02:23
Para: TS-520_820_530_830@yahoogroups.com
Assunto: Re: RES: [TS-520_820_530_830] TS-820 Relay Replacement - Hopefully Found one!

Tnx Alvaro,

Would you know off-hand how you would go about
removing and replacing the relay and where a
replacement might be found?

tnx, de Bill, N4DH

--- PY2FWA <py2fwa@...> wrote:

> HI Bill
>
> In " photos" on this group there are one photo that
> can help you to
> locate the T/R relay...See album of PY2FWA, last
> photo.
>
> 73
>
> Alvaro
> PY2FWA
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome

> de Bill Richarz
> Enviada em: quarta-feira, 15 de fevereiro de 2006
> 02:27
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: RE: [TS-520_820_530_830] TS-820 Relay
> Replacement - Hopefully
> Found one!
>
> Thanks Stephen,
>
> Does that small square box need to be removed to get
> to the T/R relay?
>
> tnx, de Bill, N4DH
>
> --- Stephen Davis <sdavis@...> wrote:
>
> > Hi Bill,
> >
> > There are 2 relays. One is under the small
> > square box between the
> > final board and the back side of the radio (next
> to
> > the SG switch). The
> > other is on the relay board just about in the
> middle
> > of the layout. This
> > one is not covered by a metal box.
> >
> > I learned this from the group in the process
> of
> > trying to fix my
> > TS-820S. Still working on it.
> >
> > Steve - K7QHU
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On
> > Behalf Of Bill Richarz
> > Sent: Tuesday, February 14, 2006 7:13 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS-820 Relay
> > Replacement - Hopefully Found
> > one!
> >
> >
> > Thanks Irv,
> >

> > And to the group. I called Ken's and ordered the
> > replacement relay for the TS-820S...cost $18.00
> plus
> > shipping by US mail.
> >
> > I wanted to check the T/R relay in the TS-820S and
> > can't seem to locate it. Anyone got a suggestion
> as
> > how to find it? Saw a small metal square box.
> > Didn't
> > have time to dig further. Wanted to check
> contacts
> > on
> > it too while I have it open.
> >
> > tnx, de Bill, N4DH
> > --- Irv <finkirv@...> wrote:
> >
> > >
> > > Thanks to all who replied. I received the
> > following
> > > info from
> > > Cliff Holland, KA5IPF:
> > >
> > > Go to
> > > http://www.kenselectronics.com/lists/relays.htm
> > and
> > > down toward
> > > the bottom he has listed a direct replacement. I
> > > haven't tried it but
> > > was given the info by someone who had and was
> > > satisfied.
> > >
> > > I went to the link Cliff game me -- Ken's
> > > Electronics, and
> > > found the following info...
> > >
> > > MH4P-12VDC-300 ohm Omron Kenwood T599D,
> > > TS820 S51-4031-05, use 401013-S
> > >
> > > 401013-S term 12VDC F.BV.153-b31/103, replaces
> > > MH4P-12VDC-300ohm in T599D & TS-820 $18.00
> > >
> > > I guess this is the place to try.
> > >
> > > Thanks again for all the help in leading me to
> > this
> > > -- I think
> > > it's our last chance! Special thanks again to
> > > Cliff!

> > >
> > > Irv VE6BP
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam
> > protection around
> > http://mail.yahoo.com
> >
> >
> >
> > SPONSORED LINKS
> > Ham
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> by&w> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> >
>
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > radio
> > Craft
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> obby> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> >
>
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > hobby
> > Hobby
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms

<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> &k=Hobby+and+craft+supply&w1=Ham+radio
> &w2=> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd073
> 5w>
> > and craft supply
> >
> > _____
> >
> > YAHOO! GROUPS LINKS
> >
> >
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830>
> "
> > on the web.
> >
> >
> > * To unsubscribe from this group, send an
> email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
> be>
> >
> >
> >
> > * Your use of Yahoo! Groups is subject to the
> > Yahoo! Terms of Service
> > <http://docs.yahoo.com/info/terms/> .
> >
> >
> > _____
> >
> >
> >
> >
> > [Non-text portions of this message have been
> > removed]
> >
> >
>
>
> ~---~
>
=== message truncated ===

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6723. Re: TS 520 unstable meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 16:32:29 UTC
From: wayneg
Topic: 6705 Message: 6723

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M."
<eichmann@...> wrote:
>
> Hi Walt and Wayne. Wayne, I'm interested to know if you experience
> erroneous meter readings on other settings besides RF? Do you see
it on
> received signal or drive level when tuning the drive? I have a very
> similary symptom on my 830, the meter does not move for low
deflections.
> For received signals, I don't get deflection until about s6 signal
> strength. Signals are there, the receive sensitivity is ok, but no
> meter twitch. While tuning the drive with the CAR at low levels, I
will
> see my external power meter twitch up, and not see the meter on the
rig
> move. I then turn the CAR up and get a drive indication, which
shows
> that I was near the peak.
>
> I'm pretty sure I need to deOxit _something_, but I've been mulling
over
> what. :) I'll try the RF Volt pot on back, and I'm planning to
deOxit
> the calibration pots for the meter. I'll post my results, and
Wayne,
> I'd appreciate if you would also as it may provide me some clues.
>
> Thanks!
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt
Breining
> Sent: Tuesday, February 14, 2006 6:26 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS 520 unstable meter
>
> There is a adjustment pot on the side for this meter setting in the
RF
> mode.
> It is called the RF volt control. It is on page 13 of the manual.
Clean
> this

> control using De Oxit or rubbing alcohol.
>
> You could also clean the multimeter switch. This is the switch that
> changes
> the meter between ALC,IP,RF,HV.
>
> Does it do this in the IP, or HV position or Just RF?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "wayneg" <wayne15857@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, February 13, 2006 7:40 PM
> Subject: [TS-520_820_530_830] TS 520 unstable meter
>
>
> > Trying to figure out why the meter sometimes drops to zero while
> > transmitting and output still holds steady. It will usually show
> > accurate readings while loading into a dummy load but on occasion
the
> > meter will not move so I load it according to my Autek watt/swr
meter.
> > Normally when start transmitting it will gradually start moving.
A few
> > minutes ago was transmitting with 50 watts output according to the
> > Autek meter and was showing 160 ma on the rig meter. The meter
> > deflection later may slowly drop and go to zero ma but the Autek
meter
> > will still show a steady 50 watts out then it will probably come
right
> > back up to 160 ma? The meter deflection on receive is always
fine and
> > will always shows an accurate deflection.
> >
> > Any ideas or suggestions?
> > Thanks.
> > Wayne, NM3B

Ron,
I was getting the erronous readings in the RF position. The DeOxit
seems to have "done the trick". I work all CW and found it much more
reliable keeping the Meter Switch in IP position while transmitting.
This would be the true reading for your Plate Current.

Wayne
> >
> >
> >
> >
> >

> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
>
>
> Yahoo! Groups Links
>

6724. RE: [TS-520_820_530_830] Initial position of LOAD control.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 17:39:15 UTC
From: Hauser, Ron M.
Topic: 6716 Message: 6724

Well, people may argue but the tuneup procedure that I prefer is to start with both drive and load turned fully CCW, which is the "minimum" setting on both (at least on my rig). I also preset the plate control to the position marked for the band.

I put the rig in TUNE, switch to send, and bring up the drive to peak. I like this because it brings the drive up from low to high.

Still in TUNE, still on Send, I switch the meter to IP and wiggle the plate knob to get a dip.

I then switch to CW, rig to send, and check the dip on the plate again. Then I start turning the load up. I have the benefit of an external power meter, so I don't have to switch the rig's multimeter. I bring up the load, watching the IP come up to the high limit while watching the power come up. On my 830 high limit for IP is 265ma, I think on the 820 it is 200ma. When I see the IP up to the high limit, I re-dip the plate control and bring up the load again.

After just a couple iterations (and only about 15 seconds) I am up to full power and near the max for IP. I feel that this method keeps me from running high IP during tuneup, and I feel good about that even if it probably doesn't hurt the rig for short times.

Your mileage may vary.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of py2fwa
Sent: Wednesday, February 15, 2006 9:35 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Initial position of LOAD control.

Hi Group:

My doubt is : Which is the initial position of control ""LOAD"" ?, Center, max ou minimum ? for initial tunning on the TS820S. DOnt have this information on the manual.

Yahoo! Groups Links

6725. RES: [TS-520_820_530_830] Initial position of LOAD control.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 18:50:39 UTC
From: PY2FWA
Topic: 6716 Message: 6725

Hi Ron;

I always made tunning in accordance with the instruction manual. But the only doubts was which would be the best initial position of control load, in the manual does not have this information.
Thanks fer ur very fine information, great ..

73

Alvaro

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Hauser, Ron M.
Enviada em: quinta-feira, 16 de fevereiro de 2006 14:39
Para: TS-520_820_530_830@yahoogroups.com
Assunto: RE: [TS-520_820_530_830] Initial position of LOAD control.

Well, people may argue but the tuneup procedure that I prefer is to start with both drive and load turned fully CCW, which is the "minimum" setting on both (at least on my rig). I also preset the plate control to the position marked for the band.

I put the rig in TUNE, switch to send, and bring up the drive to peak. I like this because it brings the drive up from low to high.

Still in TUNE, still on Send, I switch the meter to IP and wiggle the plate knob to get a dip.

I then switch to CW, rig to send, and check the dip on the plate again. Then I start turning the load up. I have the benefit of an external power meter, so I don't have to switch the rig's multimeter. I bring up the load, watching the IP come up to the high limit while watching the power come up. On my 830 high limit for IP is 265ma, I think on the 820 it is 200ma. When I see the IP up to the high limit, I re-dip the plate control and bring up the load again.

After just a couple iterations (and only about 15 seconds) I am up to full power and near the max for IP. I feel that this method keeps me from running high IP during tuneup, and I feel good about that even if it probably doesn't hurt the rig for short times.

Your mileage may vary.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of py2fwa
Sent: Wednesday, February 15, 2006 9:35 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Initial position of LOAD control.

Hi Group:

My doubt is : Which is the initial position of control ""LOAD"" ?,
Center, max ou minimum ? for initial tunning on the TS820S. DOnt have
this information on the manual.

Yahoo! Groups Links

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6726. RE: TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 18:42:52 UTC
From: pjcoombs@frontiernet.net
Topic: 6709 Message: 6726

Hi Bill,

Yes, you need to remove a couple of screws to get the metal cover off. This is one of those rare times that a magnetized screwdriver comes in handy. Make a note of which relay is which so you don't mix them up. GL,
-jay

>Message: 4
> Date: Tue, 14 Feb 2006 21:27:17 -0800 (PST)
> From: Bill Richarz <billn4dh@...>
>Subject: RE: TS-820 Relay Replacement - Hopefully Found one!
>
>Thanks Stephen,
>
>Does that small square box need to be removed to get
>to the T/R relay?
>
>tnx, de Bill, N4DH
>
>

6727. Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 20:38:37 UTC
From: Walt Breining
Topic: 6709 Message: 6727

This is an important point Jay made! I'm remembering back a bit but I believe that the original relays had the same part number but one contact was different and they had different coil resistances. So it is very important to mark the relays with something before removing them or you can get them mixed up.

Vy 73, Walt N9WB

----- Original Message -----
From: <pjcoombs@...>
To: "Kenwood TS-520_820_530_830 Yahoo Group"
<TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 16, 2006 1:42 PM
Subject: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

> Hi Bill,
>
> Yes, you need to remove a couple of screws to get the metal cover off.
> This is one of those rare times that a magnetized screwdriver comes in
> handy. Make a note of which relay is which so you don't mix them up. GL,
> -jay
>
> >Message: 4
> > Date: Tue, 14 Feb 2006 21:27:17 -0800 (PST)
> > From: Bill Richarz <billn4dh@...>
> >Subject: RE: TS-820 Relay Replacement - Hopefully Found one!
> >
> >Thanks Stephen,
> >
> >Does that small square box need to be removed to get
> >to the T/R relay?
> >
> >tnx, de Bill, N4DH
> >
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>
>
>

6728. RES: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 22:00:49 UTC
From: PY2FWA
Topic: 6709 Message: 6728

Since these relay have same part number what is the difference between them ?
This would not cause confusion? Did you make some measurement on the coil resistences?

73´s

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Walt Breining
Enviada em: quinta-feira, 16 de fevereiro de 2006 17:39
Para: TS-520_820_530_830@yahoogroups.com
Assunto: Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

This is an important point Jay made! I'm remembering back a bit but I believe that the original relays had the same part number but one contact
was different and they had different coil resistances. So it is very important to mark the relays with something before removing them or you can
get them mixed up.

Vy 73, Walt N9WB

----- Original Message -----
From: <pjcoombs@frontiernet.net>
To: "Kenwood TS-520_820_530_830 Yahoo Group" <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 16, 2006 1:42 PM
Subject: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

> Hi Bill,
>
> Yes, you need to remove a couple of screws to get the metal cover off.
> This is one of those rare times that a magnetized screwdriver comes in
> handy. Make a note of which relay is which so you don't mix them up.
GL,
> -jay
>

> >Message: 4
> > Date: Tue, 14 Feb 2006 21:27:17 -0800 (PST)
> > From: Bill Richarz <billn4dh@...>
> >Subject: RE: TS-820 Relay Replacement - Hopefully Found one!
> >
> >Thanks Stephen,
> >
> >Does that small square box need to be removed to get
> >to the T/R relay?
> >
> >tnx, de Bill, N4DH
> >
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

_____

[Non-text portions of this message have been removed]

6729. Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-16 21:24:21 UTC
From: Walt Breining
Topic: 6709 Message: 6729

They are labeled with different coil resistances and one of them, I think it is the one in the rear has an oversized contact. Just mark them when you take them out and put them back in the way they came out. They will work reversed. But I get the feeling that it is better to have the one with the oversize contact in the original place.

It was a real crazy deal and there was no documentation on this. They have identical part #s I am not sure if this was the case in all production runs. I think that there may be a post in the files section of this group on this.

vy 73, Walt N9WB

----- Original Message -----
From: "PY2FWA" <py2fwa@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 16, 2006 5:00 PM
Subject: RES: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

> Since these relay have same part number what is the difference between
> them ?
> This would not cause confusion? Did you make some measurement on the
> coil resistences?
>
> 73?s
>
> Alvaro
> PY2FWA
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Walt Breining
> Enviada em: quinta-feira, 16 de fevereiro de 2006 17:39
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement -
> Hopefully Found one!
>
> This is an important point Jay made! I'm remembering back a bit but I
> believe that the original relays had the same part number but one
> contact
> was different and they had different coil resistances. So it is very
> important to mark the relays with something before removing them or you
> can
> get them mixed up.

>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: <pjcoombs@...>
> To: "Kenwood TS-520_820_530_830 Yahoo Group"
> <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, February 16, 2006 1:42 PM
> Subject: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully
> Found
> one!
>
>
> > Hi Bill,
> >
> > Yes, you need to remove a couple of screws to get the metal cover off.
> > This is one of those rare times that a magnetized screwdriver comes in
> > handy. Make a note of which relay is which so you don't mix them up.
> GL,
> > -jay
> >
> > >Message: 4
> > > Date: Tue, 14 Feb 2006 21:27:17 -0800 (PST)
> > > From: Bill Richarz <billn4dh@...>
> > >Subject: RE: TS-820 Relay Replacement - Hopefully Found one!
> > >
> > >Thanks Stephen,
> > >
> > >Does that small square box need to be removed to get
> > >to the T/R relay?
> > >
> > >tnx, de Bill, N4DH
> > >
> > >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS

>
> Ham
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> radio
> Craft
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> hobby
> Hobby
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> &w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
> d0735w> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6730. Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-17 01:23:01 UTC
From: Dennis Windle
Topic: 6709 Message: 6730

Hmmm the parts list calls them out different Ant Relay is a S51-4017-15 and the one on the relay board is a S51-4031-05 (this is the one Kenselectronics has the replacement for).

D.Windle
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, February 16, 2006 4:24 PM
Subject: Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

They are labeled with different coil resistances and one of them, I think it is the one in the rear has an oversized contact. Just mark them when you take them out and put them back in the way they came out. They will work reversed. But I get the feeling that it is better to have the one with the oversize contact in the original place.

It was a real crazy deal and there was no documentation on this. They have identical part #s I am not sure if this was the case in all production runs. I think that there may be a post in the files section of this group on this.

vy 73, Walt N9WB

----- Original Message -----
From: "PY2FWA" <py2fwa@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 16, 2006 5:00 PM
Subject: RES: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully Found one!

> Since these relay have same part number what is the difference between
> them ?
> This would not cause confusion? Did you make some measurement on the
> coil resistences?
>
> 73´s
>
> Alvaro
> PY2FWA
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de Walt Breining
> Enviada em: quinta-feira, 16 de fevereiro de 2006 17:39
> Para: TS-520_820_530_830@yahoogroups.com

> Assunto: Re: [TS-520_820_530_830] RE: TS-820 Relay Replacement -
> Hopefully Found one!
>
> This is an important point Jay made! I'm remembering back a bit but I
> believe that the original relays had the same part number but one
> contact
> was different and they had different coil resistances. So it is very
> important to mark the relays with something before removing them or you
> can
> get them mixed up.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: <pjcoombs@...>
> To: "Kenwood TS-520_820_530_830 Yahoo Group"
> <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, February 16, 2006 1:42 PM
> Subject: [TS-520_820_530_830] RE: TS-820 Relay Replacement - Hopefully
> Found
> one!
>
>
> > Hi Bill,
> >
> > Yes, you need to remove a couple of screws to get the metal cover off.
> > This is one of those rare times that a magnetized screwdriver comes in
> > handy. Make a note of which relay is which so you don't mix them up.
> GL,
> > -jay
> >
> > >Message: 4
> > > Date: Tue, 14 Feb 2006 21:27:17 -0800 (PST)
> > > From: Bill Richarz <billn4dh@...m>
> > >Subject: RE: TS-820 Relay Replacement - Hopefully Found one!
> > >
> > >Thanks Stephen,
> > >
> > >Does that small square box need to be removed to get
> > >to the T/R relay?
> > >
> > >tnx, de Bill, N4DH
> > >
> > >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >

> >
> >
> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
>
> Ham
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
> by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> radio
> Craft
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
> obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> hobby
> Hobby
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
> &w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
> d0735w> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
> be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
> _____
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>
>
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6731. Overcoupling an amp and the LOAD control....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-18 01:41:19 UTC
From: ke9zm
Topic: 6716 Message: 6731

I had the same question about the LOAD control. There is no specific info on its initial setting in the kenwood uaers manual for the TS-520S. In this news group I have seen some folks say to start at full CCW and some say set it to center.

To go one step further, there is an excellent tuneup procedure for tube linears in general written by KK5DR. In this 4 page document he talks about "over-coupling" the amp by increasing the LOAD beyond max power out (reduces power out) to reduce grid current.

The link below is to KK5DRs tune up procedure for Linears. Was hoping some of the more knowledgable people in this group could comment and say how/if this applies to the Kenwood Hybrids.

http://www.qsl.net/kk5dr/Tuneup.htm

Gary (TS-520S Owner)

--- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@...> wrote:
>
> Ok Eric,
>
> I did try to find some information on the manual, but I did not find
> anything about this controls on initial tunning.
>
> Thanks,
>
> Alvaro
> PY2FWA
>
>
> -----Mensagem original-----
> De: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] Em nome de E Lange
> Enviada em: quarta-feira, 15 de fevereiro de 2006 13:22
> Para: TS-520_820_530_830@yahoogroups.com
> Assunto: RE: [TS-520_820_530_830] Initial position of LOAD control.
>
> Place it in the center position to start with then adjust it for peak rf
>
> output.
> Eric
>

>
> >From: "py2fwa" <py2fwa@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: [TS-520_820_530_830] Initial position of LOAD control.
> >Date: Wed, 15 Feb 2006 15:35:00 -0000
> >
> >Hi Group:
> >
> >
> >My doubt is : Which is the initial position of control ""LOAD"" ?,
> >Center, max ou minimum ? for initial tunning on the TS820S. DOnt
have
> >this information on the manual.
> >
> >
> >
>
> _____
> Take advantage of powerful junk e-mail filters built on patented
> MicrosoftR
> SmartScreen Technology.
> http://join.msn.com/?pgmarket=en-
ca&page=byoa/prem&xAPID=1994&DI=1034&SU
> =http://hotmail.com/enca&HL=Market_MSNIS_Taglines
> Start enjoying all the benefits of MSNR Premium right now and
get the
> first two months FREE*.
>
>
>
>
> Yahoo! Groups Links
>

6732. TS-820-S keying a Heathkit SB-200 Amp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-18 02:12:56 UTC
From: Bill Richarz
Topic: 6732 Message: 6732

Will the TS-820-S key a Heathkit SB-200 amp or should
there be some sort of keying relay for it to go
through?

de Bill, N4DH

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6733. Re: [TS-520_820_530_830] TS-820-S keying a Heathkit SB-200 Amp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-18 14:35:03 UTC
From: Stephen Goldberg
Topic: 6732 Message: 6733

Bill,

Get the soft-key module for your SB-200 from www.harbachelectronics.com.
Been using it with my TS-530s and SB-200 combo for about 5 years with no
problems. It's cheap and does the job.

Steve W4IMF

----- Original Message -----
From: "Bill Richarz" <billn4dh@...>

> Will the TS-820-S key a Heathkit SB-200 amp or should
> there be some sort of keying relay for it to go
> through?
>
> de Bill, N4DH

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.15.10/263 - Release Date: 2/16/06

6734. VFO-520S / TS-820S compatability

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-18 19:04:20 UTC
From: wb4ouf
Topic: 6734 Message: 6734

Just curious: Will the VFO-520S work with the TS-820S?
Thanks, es 73's , Frank

6735. Re: [TS-520_820_530_830] VFO-520S / TS-820S compatability

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-18 23:54:22 UTC
From: Kay Groß
Topic: 6734 Message: 6735

Hello Frank,

because the frequency range is the same
it does work.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

6736. Re: [TS-520_820_530_830] Initial setting of Load Control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-18 20:28:10 UTC
From: catboat15@aol.com
Topic: 6736 Message: 6736

In a message dated 2/16/2006 6:00:03 PM Pacific Standard Time,
TS-520_820_530_830@yahoogroups.com writes:
Which is the initial position of control ""LOAD"" ?,
Center, max ou minimum ? for initial tunning on the TS820S. DOnt have
this information on the manual.
I always thought the Load Control was part of the pi network output settings.
So the setting would depend on the antenna, tuner, or dummy load you are
connected with to tune up.

DE K6suf
From the high desert, John Meacham

[Non-text portions of this message have been removed]

6737. Re: [TS-520_820_530_830] Initial setting of Load Control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-19 14:55:10 UTC
From: Dave and Loraine
Topic: 6736 Message: 6737

Make yourself a tuning table and enter the knob positions per band centre.
That way you'll have the start positions for your station's antenna system impedances.
Cheers
Dave F4EYK

6738. Re: [TS-520_820_530_830] Initial position of LOAD control.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-19 16:21:56 UTC
From: Stephen Goldberg
Topic: 6716 Message: 6738

I've found the fastest and easiest way to tune up is to start with the load control at minimum, dip the plate current in the tune position then switch to CW and RF output on the meter. Key the rig while increasing output with load knob (toward maximum) then same with plate knob (usually toward minimum). Alternate between load and plate until you have maximum output. Keep key down time short.
Hope this helps.
Steve W4IMF

----- Original Message ----- >
My doubt is : Which is the initial position of control ""LOAD"" ?, Center, max ou minimum ? for initial tunning on the TS820S. DOnt have this information on the manual.

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.15.11/264 - Release Date: 2/17/06

6739. Re: [TS-520_820_530_830] TS-820-S keying a Heathkit SB-200 Amp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-19 18:50:40 UTC
From: Bill Scurlock
Topic: 6732 Message: 6739

Bill N4DH,
I agree with Steve. I've used both the soft-key and the soft turn-on modules from Harbach for several years, and they take all the stress off my SB-200 and the radio that drives it. They are not hard to install with normal handtools, and the instructions are good. I also use a soft-key module on my Collins 30L-1 amplifier.

Bill, K5GCW
----- Original Message -----
From: Stephen Goldberg
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, February 18, 2006 8:35 AM
Subject: Re: [TS-520_820_530_830] TS-820-S keying a Heathkit SB-200 Amp

Bill,

Get the soft-key module for your SB-200 from www.harbachelectronics.com.
Been using it with my TS-530s and SB-200 combo for about 5 years with no
problems. It's cheap and does the job.

Steve W4IMF

----- Original Message -----
From: "Bill Richarz" <billn4dh@...>

> Will the TS-820-S key a Heathkit SB-200 amp or should
> there be some sort of keying relay for it to go
> through?
>
> de Bill, N4DH

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.15.10/263 - Release Date: 2/16/06

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6740. eBay Item

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-19 19:28:22 UTC
From: Graham
Topic: 6740 Message: 6740

: 5869095309

73

Graham

6741. TS520 question: How do I...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 04:36:47 UTC
From: Ravenswood
Topic: 6741 Message: 6741

... tell what wattage/power i'm putting out on the TS-520? I'm not seeing anything that adjusts the power output or shows me what the power level is. Or is this something I would have to measure w/a meter?

Excuse my ignorance.

Thanks for any help!

Frank, K2NCC

6742. TS-820 With No Plate Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 06:53:44 UTC
From: Stephen Davis
Topic: 6742 Message: 6742

Hello All,

I am still troubleshooting my TS-820 with no Plate current as I get time and as I try to learn more about troubleshooting. I have a question. In the schematics for the TS-820, in several places they will show two values of voltage. For instance on the final board at pin 5 of the 6146b there are two voltages, one is -100 volts, and then in parenthesis under the -100 volts is -55 volts. Why two voltages for one point? I am guessing it has to do with the state of the radio, but cannot find anything to verify this.

Since the old e-mail with this topic was getting long, I started a new e-mail with the same title. Below is a summary of my problem:

When tuning the radio for transmit, I get no bias reading at all. If I switch the meter to the HF position, I do get reading of about 850v. Thanks to Walt, these are the things tried so far in troubleshooting the radio:

Voltage at the DRV test point on the final board measures negative 100 volts
Voltage at the SG test point on the final board measures 250 volts.
Built a voltage divider to safely measure plate voltage. The voltage was 270 volts (equivalent to about 810 volts on the plate).
Checked the cathode resistors (ok).
Checked Plate chokes for short (ok)
Checked relay on relay board (ok, or I should say contacts are clean and relay moves when I switch from rec to send)
Checked SG switch to be in the up (on) position.
Filaments light in all three tubes.
Substituted all three tubes, no change in symptoms.
Tried tuning on different bands, but no change.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

6743. cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 07:40:13 UTC
From: Ravenswood
Topic: 6743 Message: 6743

is there a cw straight-key that i can get without having to make one for this rig? any recommendations?

6744. Re: [TS-520_820_530_830] TS-820 With No Plate Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 09:57:14 UTC
From: Dave and Loraine
Topic: 6742 Message: 6744

"Checked Plate chokes for short (ok)"
Did you mean 'checked plates choke for open circuit and found very low resistance (ok)' ?

Does the screen grid voltage change when operating the SG switch?
Dave F4EYK

6745. Re: [TS-520_820_530_830] cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 11:52:14 UTC
From: w3iz
Topic: 6743 Message: 6745

Ebay has several as does Universal radio and many other dealers.

If you want to use a straight key then get someting that willl let you
develop a nice fist and send smoothly
73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 21, 2006 2:40 AM
Subject: [TS-520_820_530_830] cw straight key for ts-520

> is there a cw straight-key that i can get without having to make one
> for this rig? any recommendations?
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6746. Re: [TS-520_820_530_830] TS-820 With No Plate Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 12:25:04 UTC
From: Walt Breining
Topic: 6742 Message: 6746

Stephen:
I have saved the tricky part for last. Pins 5 are the control grid. While my diagram does not include voltages, I believe you will find that -100 V is receive and the -55 volts is transmit measured on SSB mike gain down.

The - 100 volts cuts the final tubes off during receive. The tubes have plate and screen voltages on them during receive but the - 100 volts on the control grid. As this voltage is raised toward zero volts, the tube will start conducting.

Measure the - DC volts on these pins with the rig in transmit,SSB, mike gain down, SG ON. It should change as you rotate the bias pot. Also check it at the FG (final grid) pin on the board..

The bias control controls Q5 on the RF board that in turn controls the FG voltage on transmit.

I will be away from the computer until the end of the week. I will have to get a better copy of the diagram as my PDF copy is not good around Q5.

Good luck and I'll look for your results the end of the week.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 21, 2006 1:53 AM
Subject: [TS-520_820_530_830] TS-820 With No Plate Current

> Hello All,
>
> I am still troubleshooting my TS-820 with no Plate current as I get
> time and as I try to learn more about troubleshooting. I have a question.
> In the schematics for the TS-820, in several places they will show two
> values of voltage. For instance on the final board at pin 5 of the 6146b
> there are two voltages, one is -100 volts, and then in parenthesis under
the
> -100 volts is -55 volts. Why two voltages for one point? I am guessing
it
> has to do with the state of the radio, but cannot find anything to verify
> this.
>
> Since the old e-mail with this topic was getting long, I started a
new
> e-mail with the same title. Below is a summary of my problem:
>

> When tuning the radio for transmit, I get no bias reading at all. If I
> switch the meter to the H.F. position, I do get reading of about 850v.
Thanks
> to Walt, these are the things tried so far in troubleshooting the radio:
>
> Voltage at the DRV test point on the final board measures negative
> 100 volts
> Voltage at the SG test point on the final board measures 250 volts.
> Built a voltage divider to safely measure plate voltage. The
voltage
> was 270 volts (equivalent to about 810 volts on the plate).
> Checked the cathode resistors (ok).
> Checked Plate chokes for short (ok)
> Checked relay on relay board (ok, or I should say contacts are
clean
> and relay moves when I switch from rec to send)
> Checked SG switch to be in the up (on) position.
> Filaments light in all three tubes.
> Substituted all three tubes, no change in symptoms.
> Tried tuning on different bands, but no change.
>
>
> Thanks
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6747. Re: TS520 question: How do I...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 12:50:51 UTC
From: n3hkn
Topic: 6741 Message: 6747

The plate voltage and current gives the INPUT power used by the finals. You need a wattmeter to measure the actual output power. An estimate would be output is around 50% to 60% of the input power.

There is no specific power level adjustment. For SSB use lower audio level. For CW you could detune the DRIVE control but that also effects the receive side.

Dick N3HKN

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> ... tell what wattage/power i'm putting out on the TS-520? I'm not
> seeing anything that adjusts the power output or shows me what the
> power level is. Or is this something I would have to measure w/a meter?
>
> Excuse my ignorance.
>
> Thanks for any help!
>
> Frank, K2NCC
>

6749. Re: Good Laugh

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 13:03:08 UTC
From: wb4ouf
Topic: 6749 Message: 6749

--- In TS-520_820_530_830@yahoogroups.com, "wb4ouf" <wb4ouf@...> wrote:
>
> Check out item #5870131179 on eBay.... Good stuff!
> 73's Frank, WB4OUF
>

6751. Re: [TS-520_820_530_830] Re: TS520 question: How do I...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 13:23:18 UTC
From: Walt Breining
Topic: 6741 Message: 6751

the Carrier control controls the CW output. N9WB
----- Original Message -----
From: "n3hkn" <n3hkn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 21, 2006 7:50 AM
Subject: [TS-520_820_530_830] Re: TS520 question: How do I...

>
> The plate voltage and current gives the INPUT power used by the
> finals. You need a wattmeter to measure the actual output power. An
> estimate would be output is around 50% to 60% of the input power.
>
> There is no specific power level adjustment. For SSB use lower audio
> level. For CW you could detune the DRIVE control but that also effects
> the receive side.
>
> Dick N3HKN
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
> <evokefrank@...> wrote:
> >
> > ... tell what wattage/power i'm putting out on the TS-520? I'm not
> > seeing anything that adjusts the power output or shows me what the
> > power level is. Or is this something I would have to measure w/a meter?
> >
> > Excuse my ignorance.
> >
> > Thanks for any help!
> >
> > Frank, K2NCC
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>
>

6752. Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 19:14:06 UTC
From: Ravenswood
Topic: 6743 Message: 6752

Yeah, I've seen many, but I'm looking for one that I can just
plug-n-play, which means it needs the kenwood jack fitting already
installed on the key. unless there's something I'm not getting here,
that would save me from having to add it.

thanks for the input!

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>
> Ebay has several as does Universal radio and many other dealers.
>

6753. Re: Good Laugh

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 19:15:55 UTC
From: Ravenswood
Topic: 6749 Message: 6753

That item number pulls up nothing sir.

> --- In TS-520_820_530_830@yahoogroups.com, "wb4ouf" <wb4ouf@> wrote:
> >
> > Check out item #5870131179 on eBay.... Good stuff!
> > 73's Frank, WB4OUF
> >
>

6754. Re: TS520 question: How do I...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 19:17:50 UTC
From: Ravenswood
Topic: 6741 Message: 6754

So, it seems on this model, I cannot adjust the power output settings?

Thanks again guys!

Oh, would an amp give any better reception, or just trasmit power?

f

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:

> > The plate voltage and current gives the INPUT power used by the
> > finals. You need a wattmeter to measure the actual output power.

[snip]

6755. Re: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 21:28:40 UTC
From: Norm Fusaro
Topic: 6743 Message: 6755

That is just a 1/4" phone jack. No key comes with a jack because there are several options.

Ravenswood <evokefrank@...> wrote: Yeah, I've seen many, but I'm looking for one that I can just
plug-n-play, which means it needs the kenwood jack fitting already
installed on the key. unless there's something I'm not getting here,
that would save me from having to add it.

thanks for the input!

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" wrote:
>
> Ebay has several as does Universal radio and many other dealers.
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

6756. Re: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 21:45:06 UTC
From: Paul Manuel
Topic: 6743 Message: 6756

--- Norm Fusaro <w3iz@...> wrote:
> That is just a 1/4" phone jack. No key comes with a jack because there
> are several options.

Excuse me, Norm, but the thing on the end of your key line is the "plug."
The "jack" is mounted in the rig.--Hi hi!
73,
Paul K4PDM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6757. Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 21:48:09 UTC
From: Graham
Topic: 6743 Message: 6757

--- In TS-520_820_530_830@yahoogroups.com, Norm Fusaro <w3iz@...> wrote:
>
> That is just a 1/4" phone jack. No key comes with a jack because
there are several options.
>

And don't plug it in with power turned on. [unless you have spare
fuses] <grin>

Graham

PS, Whats a key for ? [Me Ducks quickly]

6758. Re: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-21 22:48:48 UTC
From: Walt Breining
Topic: 6743 Message: 6758

I always encourage new Amateurs to get a small soldering iron and begin learning how to install phone plugs, mike plugs, speaker plugs, and PL-259s. This will prove useful to you as you adventure not only into the Ham Radio hobby but also while working with computer based equipment.

You can purchase a cord with a molded phone plug on one end and an RCA plug on the other. These are quite common and available at Radio Shack. You can then cut the RCA plug off the end opposite the phone plug, and skin the wires down. The wire will be coaxial, and there will be a center wire surrounded by a shield. Connect the center wire to the key terminal that goes to the fixed contact on the key and the shield to the other post.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 21, 2006 2:14 PM
Subject: [TS-520_820_530_830] Re: cw straight key for ts-520

> Yeah, I've seen many, but I'm looking for one that I can just
> plug-n-play, which means it needs the kenwood jack fitting already
> installed on the key. unless there's something I'm not getting here,
> that would save me from having to add it.
>
> thanks for the input!
>
> --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
> >
> > Ebay has several as does Universal radio and many other dealers.
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6759. RE: [TS-520_820_530_830] TS-820 With No Plate Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 00:14:42 UTC
From: Stephen Davis
Topic: 6742 Message: 6759

Hi Dave,

You are correct, and my statement was not clear. I checked to see if the plate chokes were open, and they were not.

Yes, the screen grid voltage does change when I operate the SG switch. With the SG switch in the ON position, I measure positive 250 volts at the SG test point on the final board. With the SG switch in the OFF position, I measure negative 100 volts at the SG test point on the final board. So it seems that the SG switch is working, just not sure if the voltages are correct.

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dave and Loraine
Sent: Tuesday, February 21, 2006 2:57 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820 With No Plate Current

"Checked Plate chokes for short (ok)"
Did you mean 'checked plates choke for open circuit and found very low resistance (ok)' ?

Does the screen grid voltage change when operating the SG switch?
Dave F4EYK

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w> and craft supply

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6760. RE: [TS-520_820_530_830] TS-820 With No Plate Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 01:26:34 UTC
From: Stephen Davis
Topic: 6742 Message: 6760

Hi Walt,

I know you will be away from the computer until the weekend, but wanted to send this while it was fresh in my head!

Okay, with the mode switch in LSB, Mic gain down (fully counterclockwise), SG switch on (up position) and the send/rcv switch set to send I get the following:

Bias control fully counterclockwise Pin 3 = +250volts Pin 5 = negative 105 volts FG test point = negative 105 volts.
Bias control fully clockwise Pin 3 = +250volts Pin 5 = Negative 90 volts FG test point = negative 90 volts.

So, rotating the bias control from fully counterclockwise to fully clockwise causes a change of about 15 volts.

My copy of the RF board schematic is also not very readable. I don't have the original service manual, just a copy. I will start checking QTH.COM and such to see if I can find someone selling the actual service manual and not a copy.

Thanks

Steve

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Tuesday, February 21, 2006 5:25 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820 With No Plate Current

Stephen:
I have saved the tricky part for last. Pins 5 are the control grid. While my diagram does not include voltages, I believe you will find that -100 V is receive and the -55 volts is transmit measured on SSB mike gain down.

The - 100 volts cuts the final tubes off during receive. The tubes have plate and screen voltages on them during receive but the - 100 volts on the control grid. As this voltage is raised toward zero volts, the tube will start conducting.

Measure the - DC volts on these pins with the rig in transmit,SSB, mike gain down, SG ON. It should change as you rotate the bias pot. Also check it at the FG (final grid) pin on the board..

The bias control controls Q5 on the RF board that in turn controls the FG voltage on transmit.

I will be away from the computer until the end of the week. I will have to get a better copy of the diagram as my PDF copy is not good around Q5.

Good luck and I'll look for your results the end of the week.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 21, 2006 1:53 AM
Subject: [TS-520_820_530_830] TS-820 With No Plate Current

> Hello All,
>
> I am still troubleshooting my TS-820 with no Plate current as I get
> time and as I try to learn more about troubleshooting. I have a question.
> In the schematics for the TS-820, in several places they will show two
> values of voltage. For instance on the final board at pin 5 of the 6146b
> there are two voltages, one is -100 volts, and then in parenthesis under
the
> -100 volts is -55 volts. Why two voltages for one point? I am guessing
it
> has to do with the state of the radio, but cannot find anything to verify
> this.
>
> Since the old e-mail with this topic was getting long, I started a
new
> e-mail with the same title. Below is a summary of my problem:
>
> When tuning the radio for transmit, I get no bias reading at all. If I
> switch the meter to the H.F. position, I do get reading of about 850v.
Thanks
> to Walt, these are the things tried so far in troubleshooting the radio:
>
> Voltage at the DRV test point on the final board measures negative
> 100 volts
> Voltage at the SG test point on the final board measures 250 volts.
> Built a voltage divider to safely measure plate voltage. The
voltage
> was 270 volts (equivalent to about 810 volts on the plate).
> Checked the cathode resistors (ok).
> Checked Plate chokes for short (ok)
> Checked relay on relay board (ok, or I should say contacts are
clean
> and relay moves when I switch from rec to send)
> Checked SG switch to be in the up (on) position.
> Filaments light in all three tubes.
> Substituted all three tubes, no change in symptoms.

> Tried tuning on different bands, but no change.
>
>
> Thanks
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

6761. Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 01:44:34 UTC
From: lajes67
Topic: 6743 Message: 6761

Walt, I agree with you about getting the soldering iron but, and I tell this to all the newcomers also, if you don't know how to solder, strip a wire and such, please, by all means, ask.
I learned how to wire and solder when I worked for Western Electric and I have been going on for almost 37 years now in the phone company and let me tell you I think I have seen just about every problem you can have. I have been doing repair for many years now and I have seen what problems can arise when the person before me, yes even me, makes a mistake when they strip a cable or doesn't clean a solder connection, or doesn't use the right tool to punch down a LAN connection, it can be frustrating to say the least.
So if anyone has questions please, please, please, ask, be it your "Elmer" or the local club. Just remember, none of us came out of the box, so to speak, knowing how to wire and solder, we all made our mistakes and learned from them, probably learned a few interesting words and phrases too.
73...John K2IZ

6762. Re: TS520 question: How do I adjust power out ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 02:08:47 UTC
From: james27613
Topic: 6741 Message: 6762

hi frank,

in cw, the carrier control adjusts the
the signal.

in SSB, using drive can lower the output
but can cause distortion and that is not good.

The only way to lower your output power is to
use the alc circuit (this works with an amplifier).

http://groups.yahoo.com/group/TS-520_820_530_830/files/MODS/

look here and go to qrp mod.

very easy to make and the 9v lasts a long time.

this is good for the digital modes like sstv
or psk31.

73 james ke4drn

6763. Re: TS520 question: output power on the meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 02:13:28 UTC
From: james27613
Topic: 6741 Message: 6763

hi frank,

section 3.1 in the manual
describes the meter functions,
for rf out, about 2/3 scale
for max output, there is no set
scale on the meter for rf power out.

73 james ke4drn

6764. Re: Good Laugh

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 13:10:46 UTC
From: wb4ouf
Topic: 6749 Message: 6764

Yes, Ebay "pulled" the ad. It was just some guy selling a "lemon" and
he went into a very detailed description...etc...it just struck me
funny and, thought other may get a kick out of it..
Frank....
--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
<evokefrank@...> wrote:
>
> That item number pulls up nothing sir.
>
> > --- In TS-520_820_530_830@yahoogroups.com, "wb4ouf" <wb4ouf@> wrote:
> > >
> > > Check out item #5870131179 on eBay.... Good stuff!
> > > 73's Frank, WB4OUF
> > >
> >
>

6765. RE: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 15:15:56 UTC
From: Hauser, Ron M.
Topic: 6743 Message: 6765

Hey Walt. Why would it matter on a straight key, whether the coax shield is wired to the moving contact on the arm, or to the fixed contact on the base?

--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Tuesday, February 21, 2006 4:49 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: cw straight key for ts-520

I always encourage new Amateurs to get a small soldering iron and begin learning how to install phone plugs, mike plugs, speaker plugs, and PL-259s.
This will prove useful to you as you adventure not only into the Ham Radio
hobby but also while working with computer based equipment.

You can purchase a cord with a molded phone plug on one end and an RCA plug
on the other. These are quite common and available at Radio Shack. You can
then cut the RCA plug off the end opposite the phone plug, and skin the wires down. The wire will be coaxial, and there will be a center wire surrounded by a shield. Connect the center wire to the key terminal that goes to the fixed contact on the key and the shield to the other post.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 21, 2006 2:14 PM
Subject: [TS-520_820_530_830] Re: cw straight key for ts-520

> Yeah, I've seen many, but I'm looking for one that I can just
> plug-n-play, which means it needs the kenwood jack fitting already
> installed on the key. unless there's something I'm not getting here,
> that would save me from having to add it.
>
> thanks for the input!
>
> --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
> >

> > Ebay has several as does Universal radio and many other dealers.
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

Yahoo! Groups Links

6766. Re: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-22 17:54:19 UTC
From: Stephen Goldberg
Topic: 6743 Message: 6766

So you don't get a shock if you touch the arm or base of the key. I believe
the keying voltage is about 65V.

Steve W4IMF

----- Original Message -----
From: "Hauser, Ron M." <eichmann@...>

> Hey Walt. Why would it matter on a straight key, whether the coax
> shield is wired to the moving contact on the arm, or to the fixed
> contact on the base?
>
> --Ron
> KC0TLN

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.15.12/266 - Release Date: 2/21/06

6767. Greetings and a few questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-23 02:05:28 UTC
From: suemkent@aol.com
Topic: 6767 Message: 6767

Hi everyone!

I'm new to this group and have a few questions. First let me introduce myself. My name is Sue and my call sign is KZ9L. I have a Kenwood TS-830S and am interested in working 6 meters as well as HF. I noticed the "xverter" connection on the back of the rig. Is there a transverter which is an accessory for this radio? I saw one on ebay which was advertised as being for the 820S but would work with the 830S "with a few modifications". Does anyone know what sort of "modifications" are needed to make it work with an 830S?

If this topic has already been discussed then please excuse the post and just point me to the location where I can get more info.

Thanks in advance and 73.

--Sue KZ9L

[Non-text portions of this message have been removed]

6768. antenna tuner for TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-23 02:29:25 UTC
From: Ravenswood
Topic: 6768 Message: 6768

Greetings group!

Any recommendations for an automatic antenna tuner for the 520?

I'd like if it had a power and SWR meter. An all-in-one wonder for me please. 8)

I've been looking at the Kenwood AT-250. Any comments on that for those who know?

Thanks guys, so many of you have been such a big help in pointing me in the right direction!

73.

Frank, K2NCC

6769. Re: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-23 05:15:07 UTC
From: Norm Fusaro
Topic: 6743 Message: 6769

I stand corrected.
Doh!

--- Paul Manuel <k4pdm@...> wrote:

>
>
> --- Norm Fusaro <w3iz@...> wrote:
> > That is just a 1/4" phone jack. No key comes with
> a jack because there
> > are several options.
>
>
> Excuse me, Norm, but the thing on the end of your
> key line is the "plug."
> The "jack" is mounted in the rig.--Hi hi!
> 73,
> Paul K4PDM
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
> http://groups.yahoo.com/group/TS-520_820_530_830/
>
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
>
>
>
>

6770. Re: [TS-520_820_530_830] Re: cw straight key for ts-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-23 21:55:14 UTC
From: Walt Breining
Topic: 6743 Message: 6770

It does not matter a lot. But the moving part is more exposed. This could cause RF issues and cause a shock hazard on older transmitters that keyed higher voltages.

vy 73, Walt N9WB

----- Original Message -----
From: "Hauser, Ron M." <eichmann@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, February 22, 2006 10:15 AM
Subject: RE: [TS-520_820_530_830] Re: cw straight key for ts-520

> Hey Walt. Why would it matter on a straight key, whether the coax
> shield is wired to the moving contact on the arm, or to the fixed
> contact on the base?
>
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
> Sent: Tuesday, February 21, 2006 4:49 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: cw straight key for ts-520
>
> I always encourage new Amateurs to get a small soldering iron and begin
> learning how to install phone plugs, mike plugs, speaker plugs, and
> PL-259s.
> This will prove useful to you as you adventure not only into the Ham
> Radio
> hobby but also while working with computer based equipment.
>
> You can purchase a cord with a molded phone plug on one end and an RCA
> plug
> on the other. These are quite common and available at Radio Shack. You
> can
> then cut the RCA plug off the end opposite the phone plug, and skin the
> wires down. The wire will be coaxial, and there will be a center wire
> surrounded by a shield. Connect the center wire to the key terminal that
> goes to the fixed contact on the key and the shield to the other post.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Ravenswood" <evokefrank@...>

> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, February 21, 2006 2:14 PM
> Subject: [TS-520_820_530_830] Re: cw straight key for ts-520
>
>
> > Yeah, I've seen many, but I'm looking for one that I can just
> > plug-n-play, which means it needs the kenwood jack fitting already
> > installed on the key. unless there's something I'm not getting here,
> > that would save me from having to add it.
> >
> > thanks for the input!
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
> > >
> > > Ebay has several as does Universal radio and many other dealers.
> > >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

>
>

6771. Re: [TS-520_820_530_830] antenna tuner for TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-23 23:30:13 UTC
From: Walt Breining
Topic: 6768 Message: 6771

One thing I have found with automatic antenna tuners is that many if not all have less range than good manual ones. The automatic tuners are good for correcting mismatches on antennas that are resonant on or near the band of operation but often will not tune random dipoles, random wires, loops and 80 meter dipoles say on 40 meters. You should research the range specifications and determine if the convenience of automatic operation or wide matching ability is more important to your specific needs.

Perhaps there are automatic tuners with wider matching ability.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, February 22, 2006 9:29 PM
Subject: [TS-520_820_530_830] antenna tuner for TS-520

> Greetings group!
>
> Any recommendations for an automatic antenna tuner for the 520?
>
> I'd like if it had a power and SWR meter. An all-in-one wonder for me
> please. 8)
>
> I've been looking at the Kenwood AT-250. Any comments on that for
> those who know?
>
> Thanks guys, so many of you have been such a big help in pointing me
> in the right direction!
>
> 73.
>
> Frank, K2NCC
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>
>

6772. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 02:25:01 UTC
From: catboat15@aol.com
Topic: 6772 Message: 6772

Hi all:
Looking for a source brand name etc for a manual antenna tuner to go between my 520 and the random wire running from the house to the big ole cottonwood in the back yard. All I see in the ads are good for lots of KW and lots of $$$$ and are automatic. Something with meters to tell me where I am. I have a Dentron Jr. that I picked up during the CB craze and don't really trust it except on really low powers.

DE K6suf
From the high desert, John Meacham

[Non-text portions of this message have been removed]

6773. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 02:25:43 UTC
From: John Becker
Topic: 6772 Message: 6773

MFJ

At 08:25 PM 2/23/06, you wrote:
>Hi all:
>Looking for a source brand name etc for a manual antenna tuner to go between
>my 520 and the random wire running from the house to the big ole cottonwood
>in the back yard. All I see in the ads are good for lots of KW and lots of
>$$$$ and are automatic. Something with meters to tell me where I am.
>I have a
>Dentron Jr. that I picked up during the CB craze and don't really trust it
>except on really low powers.
>
>DE K6suf
> >From the high desert, John Meacham
>
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>
>

6774. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 02:47:03 UTC
From: Kevin der Kinderen
Topic: 6772 Message: 6774

I'm a Palstar fan. I have the AT1500CV. The components are more beefy than my MFJ-969 which I arc'd at 50 watts while experimenting with my antenna. If your antenna presents a high SWR to the tuner, having components that can withstand the high voltages (even at low power levels) really gives some peace of mind.

I love roller inductor tuners.

Check eham.net and qth.com classifies. There are often high power tuners there. I think I saw a Ten Tec 238 this evening which I hear is a good tuner.

Kev - K4VD

[Non-text portions of this message have been removed]

6775. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 04:03:43 UTC
From: Alan Wolke
Topic: 6772 Message: 6775

I just happen to have a Palstar AT1500CV for sale. Just over 1 year
old, looks and works like new. Great tuner. If interested, please
email to: (my_callsign) @ arrl . net. Asking $365 +shipping.

73,
Alan
W2AEW

Kevin der Kinderen wrote:

> I'm a Palstar fan. I have the AT1500CV. The components are more beefy than
> my MFJ-969 which I arc'd at 50 watts while experimenting with my
> antenna. If
> your antenna presents a high SWR to the tuner, having components that can
> withstand the high voltages (even at low power levels) really gives some
> peace of mind.
>
> I love roller inductor tuners.
>
> Check eham.net and qth.com classifies. There are often high power tuners
> there. I think I saw a Ten Tec 238 this evening which I hear is a good
> tuner.
>
> Kev - K4VD
>
>

6776. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 09:50:09 UTC
From: Walt Breining
Topic: 6772 Message: 6776

How much power are you running? Dentron gear was never intended for the pseudo CB market and I would be surprised if it would not work for normal transceiver output levels. The big Dentrons work great. Let me know the model number and I will see if I can find some information on it somewhere.

Vy 73, Walt N9WB

----- Original Message -----
From: <catboat15@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, February 23, 2006 9:25 PM
Subject: Re: [TS-520_820_530_830] Manual antenna tuners

> Hi all:
> Looking for a source brand name etc for a manual antenna tuner to go between
> my 520 and the random wire running from the house to the big ole cottonwood
> in the back yard. All I see in the ads are good for lots of KW and lots of
> $$$$ and are automatic. Something with meters to tell me where I am. I have a
> Dentron Jr. that I picked up during the CB craze and don't really trust it
> except on really low powers.
>
> DE K6suf
> From the high desert, John Meacham
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6777. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 13:56:44 UTC
From: Stephen Goldberg
Topic: 6772 Message: 6777

If you can find an old, old, old Murch UT-2000B tuner on eHam or eBay etc. you'll get a roller coil tuner that will handle full legal power, with meter, that will tune just about anything that's conductive for about the price of the 300W MFJ unit with switched coil. I did and its a great tuner.

Steve W4IMF

----- Original Message -----

> Hi all:
> Looking for a source brand name etc for a manual antenna tuner to go between
> my 520 and the random wire running from the house to the big ole cottonwood
> in the back yard. All I see in the ads are good for lots of KW and lots of
> $$$$ and are automatic. Something with meters to tell me where I am. I have a
> Dentron Jr. that I picked up during the CB craze and don't really trust it
> except on really low powers.
>
> DE K6suf
> From the high desert, John Meacham

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.375 / Virus Database: 267.15.12/267 - Release Date: 2/22/06

6778. Main Relay in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 18:29:42 UTC
From: Bill Richarz
Topic: 6778 Message: 6778

Received a replacement for the main relay from Ken's
Electronics. Popped it into the radio and instantly
my problem cleared up. Relay looks almost like an
exact replacement for the OMRON relay.

Also Checked out the ant. relay by removing the metal
cover on it and it appears to be the same type relay
except the contacts appear to be a bit larger and coil
is rated at 300 ohms rather than the 380 ohm value on
the main relay. I didn't even remove the plastic
cover on it as it is working fine as it is.

I have one other problem with the radio and will list
it later and see if anyone can help me with it.
Thanks to all that pointed me to Ken's store.

tnx, & 73 de Bill, N4DH

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6779. Matching Speakers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-24 22:32:42 UTC
From: Bill
Topic: 6779 Message: 6779

Hello All,

Which speakers are a close visual match for the TS830/530, other than the SP-230? Thanks - Bill

6780. Is shielding necessary?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 00:38:08 UTC
From: Ravenswood
Topic: 6780 Message: 6780

When I key up, I get white noise on my computer speakers, on a desk about 6 feet away. Also, when I use my inkjet printer, I get a patterned feedback on the rig. I can 'hear' the printer on the radio!

Do I need shielding or will that cause RF problems with the 520? Any recommendations or comments on why this is happening?

(Computer and rig are on seperate circuits, both run on UPS and are grounded, seperately.)

6781. Re: [TS-520_820_530_830] Is shielding necessary?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 01:24:46 UTC
From: dennis hatch
Topic: 6780 Message: 6781

Back before computers...there was an FCC Regulation called Part 15..... which held manufacturers to design and market products that would not cause RFI.....Deregulation of the FCC in the name of "free enterprise" has made "Part 15" history. It's a "tit for tat"... Modern electronics manufacturers make stuff that interfers with you and then they do not use good RF supression designs in their products...so your HF rig gets into their products..... It's the almighty $$$$. Ignore it...in time you'll get used to it....HI HI
Put .01 MFD caps across the voice coils of your speakers, ad .001 bypass caps across your audio input RCA jacks....Put ferrite chokes on your printer cables.....or buy shielded printer cables. That might be a start. OR buy a screen room and put all you consumer electronics, and computers in there..... (I am being a wise guy....) Sorry!
It's a disgusting problem we shouldn't have to put up with! If the manufacturers would put another $1.50 worth of parts in there products, and properly engineer them in the first place. This would not happen.......

Ravenswood <evokefrank@...> wrote:
When I key up, I get white noise on my computer speakers, on a desk
about 6 feet away. Also, when I use my inkjet printer, I get a
patterned feedback on the rig. I can 'hear' the printer on the radio!

Do I need shielding or will that cause RF problems with the 520? Any
recommendations or comments on why this is happening?

(Computer and rig are on seperate circuits, both run on UPS and are
grounded, seperately.)

Yahoo! Groups Links

Yahoo! Mail
Bring photos to life! New PhotoMail makes sharing a breeze.

[Non-text portions of this message have been removed]

6782. Re: [TS-520_820_530_830] Is shielding necessary?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 01:57:41 UTC
From: w3iz
Topic: 6780 Message: 6782

RFI in the shack is a problem. Fist thing about seperate ground is a no-no. ALL equipment should be grounded to a common ground point. Don't daisy chain your grounds from one piece of gear to another.
See Polyphaser web site for info.
http://www.polyphaser.com/kommerce_products.aspx

Secondly, get a bunch of ferrite. Every cable that connects a peripheral to a computer or rig should have ferrite on it to choke RF on the outside of the cables. This should be done to external speaker cables on your rig too. Pass the cables though the ferrite core a few turns and that should do the trick.
No ferrite on your coax.

Third thing is to make sure that you are using good quality coax and your connectors are properly installed. Make sure that your tower/antenna is grounded to the same common ggrounding point and your equipment and house electric service.

I realize that this may be a lot of work but if you keep at it and add more and more protection over time you will have complete protection.

A properly grounded station hears better also. You would be surprised at how much static will go away by grounding. The protection to your PC for the RFI it is getting from the rig will also help eliminate RFI from the PC to the HF rig.

My plan this summer is to add 3 more ground rods to the tower. A station is always a work in progress.

Good luck.

73,
Norm, W3IZ
www.w3iz.com

6783. Re: Is shielding necessary?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 03:26:58 UTC
From: Ravenswood
Topic: 6780 Message: 6783

W3IZ once said:

> ALL equipment should be grounded to a common ground point.

Okay, I'll get on that tonight. Do I need to run a ground from all my electronics in the shack (i.e. PC, TV, stereo, etc.)? Or does the household plug ground fine for those items?

> Secondly, get a bunch of ferrite.

Done. Well, almost. I just purchased a bunch of snap-on ferrite cores online. I'll get those installed ASAP. It seems my monitor already has a ferrite on the video cable. I always wondered what that fat part of the cable was. Thanks to you, now I know! Should other things (i.e. wireless router power cable) have the choke on it too?

> Third thing is to make sure that you are using good quality coax

I think I am. It's RG8X, 50 ft, with very little slack between the rig and the dipole.

> Make sure that your tower/antenna is grounded

Well, my antenna's hardly a work of wonder. It's a 80-40 meter single band dipole (MFJ-1779B), trimmed to 34ft on each side.

To my best research so far, that was the ideal size for 40 meter (does that make it a 1/2 wave for 80?) Anyway, it's... please hold the chuckles, strung along the wooden fence, horizontally, and about 5 ft off the ground. Probably would work better 5 INCHES off the ground, but we have dogs.

I won't get Africa with that setup (particularly since it's N to S!), but I'm just getting my feet wet for now. I wanted to learn more before I spend more. Even when that time comes, I really haven't come up with a better solution to the antenna issue. I only have about 100 feet of property on the long side and I have high limitations. Hmm... that light pole on the street sure is looking tempting!

But the antenna's NOT grounded. I didn't think I needed to ground it, since it's not touching anything metal, but it does make sense that it should be. Would that be a plastic-clad wire running to the ground rod outside? If so, where on the dipole would I attach the other end? Anywhere along it? That seems like something I should know already, but I'm still learning what works with what I have.

> I realize that this may be a lot of work

Not at all, it's a pleasure to learn. The only drawback going from tech to general privileges has been the immediate drain on my bank accounts! I'm sure that's a burden many of us can appreciate.

> Good luck.

Thank you and thanks to all those that have (and might again) help me and other 'noobs'.

Frank, K2NCC

6784. Re: [TS-520_820_530_830] Re: Is shielding necessary?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 11:29:55 UTC
From: Walt Breining
Topic: 6780 Message: 6784

There is an article on e-ham now that might be interesting to you.

http://www.eham.net/articles/13204

Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, February 24, 2006 10:26 PM
Subject: [TS-520_820_530_830] Re: Is shielding necessary?

> W3IZ once said:
>
> > ALL equipment should be grounded to a common ground point.
>
> Okay, I'll get on that tonight. Do I need to run a ground from all my
> electronics in the shack (i.e. PC, TV, stereo, etc.)? Or does the
> household plug ground fine for those items?
>
> > Secondly, get a bunch of ferrite.
>
> Done. Well, almost. I just purchased a bunch of snap-on ferrite
> cores online. I'll get those installed ASAP. It seems my monitor
> already has a ferrite on the video cable. I always wondered what that
> fat part of the cable was. Thanks to you, now I know! Should other
> things (i.e. wireless router power cable) have the choke on it too?
>
> > Third thing is to make sure that you are using good quality coax
>
> I think I am. It's RG8X, 50 ft, with very little slack between the
> rig and the dipole.
>
> > Make sure that your tower/antenna is grounded
>
> Well, my antenna's hardly a work of wonder. It's a 80-40 meter single
> band dipole (MFJ-1779B), trimmed to 34ft on each side.
>
> To my best research so far, that was the ideal size for 40 meter (does
> that make it a 1/2 wave for 80?) Anyway, it's... please hold the
> chuckles, strung along the wooden fence, horizontally, and about 5 ft
> off the ground. Probably would work better 5 INCHES off the ground,
> but we have dogs.
>
> I won't get Africa with that setup (particularly since it's N to S!),
> but I'm just getting my feet wet for now. I wanted to learn more

> before I spend more. Even when that time comes, I really haven't come
> up with a better solution to the antenna issue. I only have about 100
> feet of property on the long side and I have high limitations. Hmm...
> that light pole on the street sure is looking tempting!
>
> But the antenna's NOT grounded. I didn't think I needed to ground it,
> since it's not touching anything metal, but it does make sense that it
> should be. Would that be a plastic-clad wire running to the ground
> rod outside? If so, where on the dipole would I attach the other end?
> Anywhere along it? That seems like something I should know already,
> but I'm still learning what works with what I have.
>
> > I realize that this may be a lot of work
>
> Not at all, it's a pleasure to learn. The only drawback going from
> tech to general privileges has been the immediate drain on my bank
> accounts! I'm sure that's a burden many of us can appreciate.
>
> > Good luck.
>
> Thank you and thanks to all those that have (and might again) help me
> and other 'noobs'.
>
> Frank, K2NCC
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6785. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 16:00:17 UTC
From: carboyhat@juno.com
Topic: 6772 Message: 6785

For 25 years I used one of those 300 watt MFJ tuners with the built in dummy load, switchable inductor , and two capacitors for tuning. It has worked ok over the years. Recently I aquired a Palstar AT1KM. Tunes well and is built well. The insides of my ole MFJ are built just enough to get the job done. The Palstar is more than that. However, it does not have a built-in dummy load like the MFJ. There is a switch position provided on the front panel that bypasses the tuner to a connector on the back where I have my external dummy load connected.

Bob, AA4AI

On Thu, 23 Feb 2006 21:25:01 EST catboat15@... writes:

> Hi all:
> Looking for a source brand name etc for a manual antenna tuner to go
> between
> my 520 and the random wire running from the house to the big ole
> cottonwood
> in the back yard. All I see in the ads are good for lots of KW and
> lots of
> $$$$ and are automatic. Something with meters to tell me where I am.
> I have a
> Dentron Jr. that I picked up during the CB craze and don't really
> trust it
> except on really low powers.
>
> DE K6suf
> From the high desert, John Meacham
>
>

6786. Re: [TS-520_820_530_830]Receiver R 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 21:33:48 UTC
From: Kay Groß
Topic: 6786 Message: 6786

Hello to all in the group,

some of you know I am a hardcore Foxtango man,
but I am also a freak of the TS830,that is the reason
I am in this group. Today now I am also a proud owner of the
Kenwood receiver R 820 ,a very rare receiver that has some
features the TS 830 had 3 years later. Double conversion
superhet and some other new features.
May be this is the beginning of a TS820 collection.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

6787. Re: [TS-520_820_530_830]Receiver R 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 23:15:15 UTC
From: Kevin der Kinderen
Topic: 6786 Message: 6787

Kay:

I have never heard of an R820 receiver. That sounds like it would be a real nice addition to a shack. Was the R820 the end of a line or is there a follow-on R830? Is the 820 a general coverage or ham-band receiver?

Kev - K4VD

On 2/25/06, Kay Groß <kaygross@...> wrote:
>
> Hello to all in the group,
>
> some of you know I am a hardcore Foxtango man,
> but I am also a freak of the TS830,that is the reason
> I am in this group. Today now I am also a proud owner of the
> Kenwood receiver R 820 ,a very rare receiver that has some
> features the TS 830 had 3 years later. Double conversion
> superhet and some other new features.
> May be this is the beginning of a TS820 collection.
>
> 73 Kay DL5OAQ
>
> www.pbase.com/dl5oaq
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

[Non-text portions of this message have been removed]

6788. Re: [TS-520_820_530_830]Receiver R 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-25 23:22:14 UTC
From: Graham
Topic: 6786 Message: 6788

--- In TS-520_820_530_830@yahoogroups.com, "Kevin der Kinderen"
<kkinderen@...> wrote:
>
> Kay:
>
> I have never heard of an R820 receiver. That sounds like it would be
a real
> nice addition to a shack. Was the R820 the end of a line or is there a
> follow-on R830? Is the 820 a general coverage or ham-band receiver?
>
> Kev - K4VD
>

http://www.rigpix.com/kenwood/r820.htm

Boom -Boom !

73

Graham

6789. Re: [TS-520_820_530_830]Receiver R 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-26 14:17:26 UTC
From: Kay Groß
Topic: 6786 Message: 6789

Hello Kevin,

the R 820 was the end of the TS820 line.
It was not general coverage, it was a classic
hamband receiver with a converter for some
radio bands.But it was build very professional,
with switchable crystalfilters independend from
the modulation.It was only manufactured for one year from 1977 to 1978.I do
add some fotos from inside
of the receiver on my website.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

6790. Re: [TS-520_820_530_830]Receiver R 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-26 20:27:39 UTC
From: Graham
Topic: 6786 Message: 6790

One has just sold on eBay for around $400

Graham

6791. TS820: In rig meter checks out (K0ZL)okay ip, HV, but power out down..suddenly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-26 20:34:12 UTC
From: Roberto Baca Barnard
Topic: 6791 Message: 6791

Hello Group fm WB7AVF/2:
I'm new and have read the files section and many of the messages. Here's the situation: One TS820, operating since September cleanly and efficiently, CW only, at 100w (or less) through MFJ 949E "tuner" into coax-fed, 40m dipole, 20 ft feedline, 100 feet above ground. Clean, dust-free, treated gingerly. Given rig in September by friend who mentioned that "tubes might be getting old" but rarely ran it.

Always followed manual tuneup procedures. i.p idle always at 58ma and very careful to not push the old rig too hard. Don't have test equpiment in my apartment QTH save for a volt/ohmmeter.

PROBLEM: Won't load up properly, power down, spongey. Suddenly happened day before yesterday...

Noticed that rig was not loading up properly after 20-50w all bands, becoming spongey and CAR control ineffective; REflected pwr meter on MFJ high reading, even on dummy load. This had never occured before; crosshairs always well in check; now Reflected PWR needle hard to the left. Checked mechanical connex of course to start with, SG sw, etc. First thought: something funky with the transmatch, say, dummy load Resistor bad or dirty contacts. It reads 41.8 ohms and is well connected. Mechanically MFJ looks okay...Though I'd like to know if they can give trouble.

Followed "in rig" tube check out procedure as outlined by K0ZL. STATS: I.P. FINE H.V. FINE. No decays or abrupt changes under any of the tests outlined. ONLY THING VARIED IS THAT turning up bias pot as suggested in part of the test gave 190ma, not "well over 200" as he said. But there was no decay, sudden drop off, etc. In other words, maybe elderly tubes, but not dead (?)

Tried again. Same thing. Rig doesn't seem to "load up" into dummy load or antenna for full output. Turning up carrier level pots up above 200 if wanted but SWR meter refected pwr very high.

What's up? I have to go QRT anyway while moving this week
SO NOWS the time to check it out and fix it as best I can as an evening project. I will miss
my TS820 as it's my
only non QRP rig and had plans to give it a new ladder line fed antenna.

6792. Kenwood TS-830S with receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 05:11:31 UTC
From: trwinok
Topic: 6792 Message: 6792

Hi Group!
I have a TS-830S that has developed a recent problem. One morning when it was turned on I noticed the receive sensitivity was down. It still receives, just not as well. After playing with it a bit I noticed the meter was no longer moving at all and the gain control had no affect on the received signal. I've already tried replacing the TX/RX relay to see if that helped, but it made no difference. Does anyone have any suggestions on where to start looking for this problem or has anyone ever seen this problem before?
Many Thanks for your help!
73 de AC5N

6793. Re: [TS-520_820_530_830] TS820: In rig meter checks out (K0ZL)okay ip, HV, but power out down..suddenly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 08:07:50 UTC
From: Walt Breining
Topic: 6791 Message: 6793

My first guess is that there is nothing wrong with the rig. It is something after the rig. Is the dummy load separate from the meter? If so:

1. Check the resistance of the dummy load with an ohm meter. It should read close to 50 ohms.
2. Connect a coax jumper to the dummy load and check the resistance at the end opposite the dummy load. It should read the same.
3. If the above checks out, plug this jumper that is connected to the dummy load directly to the TS 820 and see if the spongy effect goes away and things act normal.
4. Is so obtain another watt meter of good quality. Connect the dummy load to this meter and connect a jumper to go from the meter to the TS-820. Before plugging it into the rig, check the resistance across the plug that you are going to connect to the TS 820. It should still be around 50 ohms.
5. Now connect this combination and load up the TS 820. If everything is OK start substituting things until the problem reappears. Find the bad items by the process of elimination.

If the rig still acts defective with the dummy load connected directly, how much ALC do you get with the carrier fully up and the drive control peaked for maximum ALC on CW ? Is it normal?
If not, I would suspect the 12BY7.

If none of the above reveals anything, you need to check out the screen voltage and look for a defective fixed capacitor in the PA area.

I am betting that it is not your rig.

Vy 73, Walt N9WB
If it seems normal,
----- Original Message -----
From: "Roberto Baca Barnard" <barnardbaca@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, February 26, 2006 3:34 PM
Subject: [TS-520_820_530_830] TS820: In rig meter checks out (K0ZL)okay ip, HV, but power out down..suddenly

> Hello Group fm WB7AVF/2:
> I'm new and have read the files section and many of the messages. Here's the situation:
> One TS820, operating since September cleanly and efficiently, CW only, at 100w (or less)
> through MFJ 949E "tuner" into coax-fed, 40m dipole, 20 ft feedline, 100 feet above
> ground. Clean, dust-free, treated gingerly. Given rig in September by

friend who
> mentioned that "tubes might be getting old" but rarely ran it.
>
> Always followed manual tuneup procedures. i.p idle always at 58ma and very
careful to not
> push the old rig too hard. Don't have test equpiment in my apartment QTH
save for a volt/
> ohmmeter.
>
> PROBLEM: Won't load up properly, power down, spongey. Suddenly happened
day before
> yesterday...
>
> Noticed that rig was not loading up properly after 20-50w all bands,
becoming spongey
> and CAR control ineffective; REflected pwr meter on MFJ high reading, even
on dummy
> load. This had never occured before; crosshairs always well in check; now
Reflected PWR
> needle hard to the left. Checked mechanical connex of course to start
with, SG sw, etc.
> First thought: something funky with the transmatch, say, dummy load
Resistor bad or dirty
> contacts. It reads 41.8 ohms and is well connected. Mechanically MFJ
looks okay...Though
> I'd like to know if they can give trouble.
>
> Followed "in rig" tube check out procedure as outlined by K0ZL. STATS:
I.P. FINE H.V. FINE.
> No decays or abrupt changes under any of the tests outlined. ONLY THING
VARIED IS THAT
> turning up bias pot as suggested in part of the test gave 190ma, not "well
over 200" as he
> said. But there was no decay, sudden drop off, etc. In other words, maybe
elderly tubes,
> but not dead (?)
>
> Tried again. Same thing. Rig doesn't seem to "load up" into dummy load or
antenna for full
> output. Turning up carrier level pots up above 200 if wanted but SWR meter
refected pwr
> very high.
>
> What's up? I have to go QRT anyway while moving this week
> SO NOWS the time to check it out and fix it as best I can as an evening
project. I will miss
> my TS820 as it's my
> only non QRP rig and had plans to give it a new ladder line fed antenna.
>
>

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6794. Re: [TS-520_820_530_830] TS820: In rig meter checks out (K0ZL)okay ip, HV, but power out down..suddenly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 14:16:20 UTC
From: RBB
Topic: 6791 Message: 6794

Hi Walt and thanks for the procedure. The MFJ dummy
load is a cigar shaped resistor with a metallic
coating of some sort on each end. It's removable from
its mount (snap in). Tests 42 ohms, removed. Will
follow up on this.
--- Walt Breining <n9wb@...> escribi?:

My first guess is that there is nothing wrong with the
rig. It is something
after the rig. Is the dummy load separate from the
meter? If so:

1. Check the resistance of the dummy load with an ohm
meter. It should read
close to 50 ohms.
2. Connect a coax jumper to the dummy load and check
the resistance at the
end opposite the dummy load. It should read the same.
3. If the above checks out, plug this jumper that is
connected to the dummy
load directly to the TS 820 and see if the spongy
effect goes away and
things act normal.
4. Is so obtain another watt meter of good quality.
Connect the dummy load
to this meter and connect a jumper to go from the
meter to the TS-820.
Before plugging it into the rig, check the resistance
across the plug that
you are going to connect to the TS 820. It should
still be around 50 ohms.
5. Now connect this combination and load up the TS
820. If everything is OK
start substituting things until the problem reappears.
Find the bad items by
the process of elimination.

If the rig still acts defective with the dummy load
connected directly, how
much ALC do you get with the carrier fully up and the
drive control peaked
for maximum ALC on CW ? Is it normal?
If not, I would suspect the 12BY7.

If none of the above reveals anything, you need to
check out the screen
voltage and look for a defective fixed capacitor in
the PA area.

I am betting that it is not your rig.

Vy 73, Walt N9WB
If it seems normal,
----- Original Message -----
From: "Roberto Baca Barnard"
<barnardbaca@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, February 26, 2006 3:34 PM
Subject: [TS-520_820_530_830] TS820: In rig meter
checks out (K0ZL)okay ip,
HV, but power out down..suddenly

> Hello Group fm WB7AVF/2:
> I'm new and have read the files section and many of
the messages. Here's
the situation:
> One TS820, operating since September cleanly and
efficiently, CW only, at
100w (or less)
> through MFJ 949E "tuner" into coax-fed, 40m dipole,
20 ft feedline, 100
feet above
> ground. Clean, dust-free, treated gingerly. Given
rig in September by
friend who
> mentioned that "tubes might be getting old" but
rarely ran it.
>
> Always followed manual tuneup procedures. i.p idle
always at 58ma and very
careful to not
> push the old rig too hard. Don't have test equpiment
in my apartment QTH
save for a volt/
> ohmmeter.
>
> PROBLEM: Won't load up properly, power down,
spongey. Suddenly happened
day before
> yesterday...
>
> Noticed that rig was not loading up properly after
20-50w all bands,
becoming spongey
> and CAR control ineffective; REflected pwr meter on
MFJ high reading, even

on dummy
> load. This had never occured before; crosshairs
always well in check; now
Reflected PWR
> needle hard to the left. Checked mechanical connex
of course to start
with, SG sw, etc.
> First thought: something funky with the transmatch,
say, dummy load
Resistor bad or dirty
> contacts. It reads 41.8 ohms and is well connected.
Mechanically MFJ
looks okay...Though
> I'd like to know if they can give trouble.
>
> Followed "in rig" tube check out procedure as
outlined by K0ZL. STATS:
I.P. FINE H.V. FINE.
> No decays or abrupt changes under any of the tests
outlined. ONLY THING
VARIED IS THAT
> turning up bias pot as suggested in part of the test
gave 190ma, not "well
over 200" as he
> said. But there was no decay, sudden drop off, etc.
In other words, maybe
elderly tubes,
> but not dead (?)
>
> Tried again. Same thing. Rig doesn't seem to "load
up" into dummy load or
antenna for full
> output. Turning up carrier level pots up above 200
if wanted but SWR meter
refected pwr
> very high.
>
> What's up? I have to go QRT anyway while moving
this week
> SO NOWS the time to check it out and fix it as best
I can as an evening
project. I will miss
> my TS820 as it's my
> only non QRP rig and had plans to give it a new
ladder line fed antenna.
>
>
>
>
>

>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

SPONSORED LINKS
Ham
radio Craft hobby
Hobby and craft
supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

ARS WB7AVF, NAQCC 1097 SKCC 689? FISTS 11881 --- B.M, M.M. Mus. Comp. and ?DMA student

---

Do You Yahoo!?
La mejor conexi?n a Internet y 2GB extra a tu correo por $100 al mes.
http://net.yahoo.com.mx

6795. Re: [TS-520_820_530_830] Kenwood TS-830S with receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 15:14:17 UTC
From: Chris Howard
Topic: 6792 Message: 6795

Bandswitch?

On Mon, 2006-02-27 at 05:11 +0000, trwinok wrote:
> Hi Group!
> I have a TS-830S that has developed a recent problem. One morning when
> it was turned on I noticed the receive sensitivity was down. It still
> receives, just not as well. After playing with it a bit I noticed the
> meter was no longer moving at all and the gain control had no affect
> on the received signal. I've already tried replacing the TX/RX relay
> to see if that helped, but it made no difference. Does anyone have
> any suggestions on where to start looking for this problem or has
> anyone ever seen this problem before?
> Many Thanks for your help!
> 73 de AC5N
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

6796. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 17:42:52 UTC
From: Randy Morton
Topic: 6772 Message: 6796

I'd have to recommend against MFJ right now. I bought a shiny (allegedly) new MFJ auto tuner on Friday. I took it home, opened the factory sealed box, and took out a banged up tuner that appeared to have been inexpertly repaired. I immediately returned it. The dealer (who bent over backwards through all of this to make things right) brought out the only other one of that model in stock. We opened it right there and found a small ding in the front of the case. Neither of us noticed the odd way the meter was mounted. I decided to take it home and try it since I had the dealers assurance of a full refund it it wasn't right. It wasn't. I got wildly varying readings when I keyed up the radio. Sometimes it reported a match, sometimes it reported that it couldn't find a match, sometimes nothing happened, and sometimes it locked up, displayed "powerdown", and had to be reset before anything worked. I'm still looking for a tuner, and I'll be checking out the companies recommended here. I do, however, know which company I'll avoid in the future.

On 2/25/06, carboyhat@... <carboyhat@...> wrote:
>
> For 25 years I used one of those 300 watt MFJ tuners with the built in
> dummy load, switchable inductor , and two capacitors for tuning. It has
> worked ok over the years. Recently I aquired a Palstar AT1KM. Tunes
> well and is built well. The insides of my ole MFJ are built just enough
> to get the job done. The Palstar is more than that. However, it does
> not have a built-in dummy load like the MFJ. There is a switch position
> provided on the front panel that bypasses the tuner to a connector on the
> back where I have my external dummy load connected.
>
> Bob, AA4AI
> ---
> --------------
> On Thu, 23 Feb 2006 21:25:01 EST catboat15@... writes:
> > Hi all:
> > Looking for a source brand name etc for a manual antenna tuner to go
> > between
> > my 520 and the random wire running from the house to the big ole
> > cottonwood
> > in the back yard. All I see in the ads are good for lots of KW and
> > lots of
> > $$$$ and are automatic. Something with meters to tell me where I am.
> > I have a
> > Dentron Jr. that I picked up during the CB craze and don't really
> > trust it
> > except on really low powers.
> >
> > DE K6suf

> > From the high desert, John Meacham
> >
> >
>
>
> SPONSORED LINKS
> Ham radio<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=H
obby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft
> hobby<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hob
by+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby
> and craft supply<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> ------------------------------
> YAHOO! GROUPS LINKS
>
>
> - Visit your group
"TS-520_820_530_830<http://groups.yahoo.com/group/TS-520_820_530_830>"
> on the web.
>
> - To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe@yahoogroup
s.com?subject=Unsubscribe>
>
> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ------------------------------
>

[Non-text portions of this message have been removed]

6797. Re: Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 17:57:39 UTC
From: wa3syr@verizon.net
Topic: 6772 Message: 6797

>From: Randy Morton >Date: Mon Feb 27 11:42:52 CST 2006 >To: TS-520_820_530_830@yahoogroups.com >Subject: Re: [TS-520_820_530_830] Manual antenna tuners TRY PALSTAR MADE IN OHIO AND NEED HEARD OF A PROBLEM WITH THERE TUNERS >I'd have to recommend against MFJ right now. I bought a shiny (allegedly) >new MFJ auto tuner on Friday. I took it home, opened the factory sealed >box, and took out a banged up tuner that appeared to have been inexpertly >repaired. I immediately returned it. The dealer (who bent over backwards >through all of this to make things right) brought out the only other one of >that model in stock. We opened it right there and found a small ding in the >front of the case. Neither of us noticed the odd way the meter was >mounted. I decided to take it home and try it since I had the dealers >assurance of a full refund it it wasn't right. It wasn't. I got wildly >varying readings when I keyed up the radio. Sometimes it reported a match, >sometimes it reported that it couldn't find a match, sometimes nothing >happened, and sometimes it locked up, displayed "powerdown", and had to be >reset before anything worked. I'm still looking for a tuner, and I'll be >checking out the companies recommended here. I do, however, know which >company I'll avoid in the future. > >On 2/25/06, carboyhat@... wrote: >> >> For 25 years I used one of those 300 watt MFJ tuners with the built in >> dummy load, switchable inductor , and two capacitors for tuning. It has >> worked ok over the years. Recently I aquired a Palstar AT1KM. Tunes >> well and is built well. The insides of my ole MFJ are built just enough >> to get the job done. The Palstar is more than that. However, it does >> not have a built-in dummy load like the MFJ. There is a switch position >> provided on the front panel that bypasses the tuner to a connector on the >> back where I have my external dummy load connected. >> >> Bob, AA4AI >> ---------- >> --------------- >> On Thu, 23 Feb 2006 21:25:01 EST catboat15@... writes: >> > Hi all: >> > Looking for a source brand name etc for a manual antenna tuner to go >> > between >> > my 520 and the random wire running from the house to the big ole >> > cottonwood >> > in the back yard. All I see in the ads are good for lots of KW and >> > lots of >> > $$$$ and are automatic. Something with meters to tell me where I am. >> > I have a >> > Dentron Jr. that I picked up during the CB craze and don't really >> > trust it >> > except on really low powers. >> > >> > DE K6suf >> > From the high desert, John Meacham >> > >> > >> > >> > >> SPONSORED LINKS >> Ham radio Craft >> hobby Hobby >> and craft supply >> ---------- >> YAHOO! GROUPS LINKS >> >> >> - Visit your group "TS-520_820_530_830" >> on the web. >> >> - To unsubscribe from this group, send an email to: >> TS-520_820_530_830-unsubscribe@yahoogroups.com >> >> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of >> Service . >> >> >> ---------- >> > > >[Non-text portions of this message have been removed] > > > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply > YAHOO! GROUPS LINKS > Visit your group "TS-520_820_530_830 (http://groups.yahoo.com/group/TS-520_820_530_830)" on the web. > To unsubscribe from this group, send an email to: > TS-520_820_530_830-unsubscribe@yahoogroups.com > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service. >

6798. Looking for some great Kenwood stuff

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 19:42:35 UTC
From: Daniel
Topic: 6798 Message: 6798

Hi to ALL

I'm own a TS-830S & a TS-930S. Now I'm looking for some more OLD-Kenwood stuff:

- TS-520S / 520SE
- VFO-520
- DFC-230 or some other digital readout
- VFO-230

Is anybody here to sell this Parts? All have to be in excellent shape. Please let me know.

Daniel, HB9DDS

6799. Looking for some great Kenwood stuff ## 2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 21:29:55 UTC
From: Daniel
Topic: 6799 Message: 6799

I will made a correction to my previous posting:

Now I'm looking for some more OLD-Kenwood stuff:

TS-520 Stuff:

- TS-520S / 520SE
- DG-5 (external Digital Display)
- VFO-520S (external VFO)

For my TS-830S:

- DFC-230 (Digital Frequency Controller)
- VFO-230

Is anybody here to sell this Parts? All have to be in excellent shape. Please let me know.

Daniel, HB9DDS

6800. TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 21:37:30 UTC
From: Jim Adams
Topic: 6800 Message: 6800

Hi everyone. I am a new member to the group. I have had my General for about 4 months. I was a novice for a year in 1954 so it's been awhile. My rig is an old but loved TS-520SE which has developed indents (feels like a flat ball bearing) when rotating the tuning knob. Has this been discussed before and can anyone help identify the cause and possible fix? It still tunes OK, but I have noticed that if on a 'flat spot' the dial will drift to either side. Thanks for your help.

6801. TS-820S Display Problem Resolved

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-27 22:14:27 UTC
From: wb4ouf
Topic: 6801 Message: 6801

Hi All,
Back during the first week of Feb., I posted a query regarding the ongoing display problem I had been having with my 820S. Since then I have done absolutely everything known, suggested and invented to try and resolve it. Today, I decided to "get on it" again. I decided to make a few more continuity checks before I disassembled everything for about the 6th time. The first thing was to re-check the filament continuity of the display tube. I disconnected the display from the DG1 and when I went to place the probes on the "p and f" connectors (filament supply lines), I noticed that the "f" connector looked different than all the others. I decided to remove the connector pin from the main "block" and when I depressed the retaining leaf, I noticed absolutely no resistance. I went ahead and removed the pin and the leaf dropped out with it. The leaf had broken off the pin. I went ahead and re-connected everything and "hard wired" pin "f" and ..... IT'S ALIVE!! Evidently the leaf being broken provided no pressure for the connector to make good contact with the pin and everytime I made voltage and/or continuity checks, the meter or scope probes provided enough pressure to make the connection. With my eyes "glued" to the meter or scope tube I never "saw" if the display came on or not....Hi! Anyway, I just wanted to make sure that I told as many people as I could... I know what the "fight" is like!
So...If you have 820S display problems, do everything you ever heard or read and make sure you "CHECK EVERY CONNECTING PIN FOR THE POSSIBILITY OF A BROKEN RETAINING LEAF"...

Best 73's
Frank WB4OUF

PS: Anyone know a source for those wire end connectors?

6802. regarding my newly purchased ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 00:43:27 UTC
From: jamaxton
Topic: 6802 Message: 6802

I am new to ham radio and not much of an expert in all of this. The radio has all filters in it but one of them is facing the other way. Can read three labels from the front but the fourth faces to the back. Is that normal or is it significant of anything bad. Also the coax connector is solid on the back but is not perpendicular to the back wall plate. Its cocked about three to five degrees to the left as I stand in the front. The fan housing is flush on three sides but the metal plate is slightly pushed in under it exposing about an eighth of an inch of space which seems to have caused the cocked coax connector. As I have several daays to return the radio, do these things seem worthy of returning the rig. It does work. I made some contacts. Too new to tell if its working at its best. Cosmetically, should they have sold it to me that way. Would appreciate any comments that could ease my worries or let me know to send it back if need be. Thanks for any help you can give.
Sincerely, Tom kb1mak

6803. regarding my newly purchased ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 00:53:02 UTC
From: jamaxton
Topic: 6802 Message: 6803

I am new to ham radio and not much of an expert in all of this. The radio has all filters in it but one of them is facing the other way. Can read three labels from the front but the fourth faces to the back. Is that normal or is it significant of anything bad. Also the coax connector is solid on the back but is not perpendicular to the back wall plate. Its cocked about three to five degrees to the left as I stand in the front. The fan housing is flush on three sides but the metal plate is slightly pushed in under it exposing about an eighth of an inch of space which seems to have caused the cocked coax connector. As I have several daays to return the radio, do these things seem worthy of returning the rig. It does work. I made some contacts. Too new to tell if its working at its best. Cosmetically, should they have sold it to me that way. Would appreciate any comments that could ease my worries or let me know to send it back if need be. Thanks for any help you can give.
Sincerely, Tom kb1mak

6804. Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 01:09:43 UTC
From: w1ioo
Topic: 6804 Message: 6804

Is the cable between the VFO-820 & the TS-820s a one for one. I have the 8 pin octal plugs. Second does anyone have a copy of the manual for the VFO-820 I could purchase.
Tnx in advance.
W1IOO wally

6805. Re: [TS-520_820_530_830] regarding my newly purchased ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 01:13:31 UTC
From: Ken Winterling
Topic: 6802 Message: 6805

Tom,

The filters can be installed either way, they are not keyed nor polarized. It just looks better if they are all installed the same way. I wouldn't remove a filter just to reorient it.

The mechanical issues you describe with the coax connector and fan are not normal and are indicative of an impact. The rig may have fallen and landed on the rear. Check the insulator of the coax connector for broken pieces. Was the rig shipped to you? This could be shipping damage. Check the carton for damage. Was there adequate packaging to prevent the rig from moving in the carton?

Good luck.

Ken, WA2LBI

On 2/27/06, jamaxton <jamaxton@...> wrote:
> I am new to ham radio and not much of an expert in all of this. The radio has
> all filters in it but one of them is facing the other way. Can read three labels
> from the front but the fourth faces to the back. Is that normal or is it significant
> of anything bad. Also the coax connector is solid on the back but is not
> perpendicular to the back wall plate. Its cocked about three to five degrees to
> the left as I stand in the front. The fan housing is flush on three sides but the
> metal plate is slightly pushed in under it exposing about an eighth of an inch
> of space which seems to have caused the cocked coax connector. As I have
> several daays to return the radio, do these things seem worthy of returning the
> rig. It does work. I made some contacts. Too new to tell if its working at its
> best. Cosmetically, should they have sold it to me that way. Would
> appreciate any comments that could ease my worries or let me know to send
> it back if need be. Thanks for any help you can give.
> Sincerely, Tom kb1mak
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

>

6806. Re: [TS-520_820_530_830] TS-820S Display Problem Resolved

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 01:43:25 UTC
From: Kevin der Kinderen
Topic: 6801 Message: 6806

Frank:

Can't help with the connector but I really appreciate all the troubleshooting and progress posts you made in resolving the problem. One thing I've learned from them, with these old rigs, look as hard at the mechanics as the electronics when troubleshooting.

73 and congrats on the repair,
Kev - K4VD

On 2/27/06, wb4ouf <wb4ouf@...> wrote:
>
> Hi All,
> Back during the first week of Feb., I posted a query regarding the
> ongoing display problem I had been having with my 820S. Since then I
> have done absolutely everything known, suggested and invented to try
> and resolve it. Today, I decided to "get on it" again. I decided to
> make a few more continuity checks before I disassembled everything
> for about the 6th time. The first thing was to re-check the filament
> continuity of the display tube. I disconnected the display from the
> DG1 and when I went to place the probes on the "p and f" connectors
> (filament supply lines), I noticed that the "f" connector looked
> different than all the others. I decided to remove the connector pin
> from the main "block" and when I depressed the retaining leaf, I
> noticed absolutely no resistance. I went ahead and removed the pin
> and the leaf dropped out with it. The leaf had broken off the pin.
> I went ahead and re-connected everything and "hard wired" pin "f"
> and ..... IT'S ALIVE!! Evidently the leaf being broken provided no
> pressure for the connector to make good contact with the pin and
> everytime I made voltage and/or continuity checks, the meter or scope
> probes provided enough pressure to make the connection. With my
> eyes "glued" to the meter or scope tube I never "saw" if the display
> came on or not....Hi! Anyway, I just wanted to make sure that I told
> as many people as I could... I know what the "fight" is like!
> So...If you have 820S display problems, do everything you ever heard
> or read and make sure you "CHECK EVERY CONNECTING PIN FOR THE
> POSSIBILITY OF A BROKEN RETAINING LEAF"...
>
> Best 73's
> Frank WB4OUF
>
> PS: Anyone know a source for those wire end connectors?
>

[Non-text portions of this message have been removed]

6807. Re: Kenwood TS-830S with receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 02:18:19 UTC
From: lajes67
Topic: 6792 Message: 6807

I've got a 530S that had almost the same problem, one day it worked next day nothing on the receive but the strongest signals could get the meter to even move. I checked and cleaned both relays but that didn't change anything. Someone mentioned K4EEA and I found his web site and spoke with him. I sent the rig off to him and he did find the problem, he said he found the problem in L41 which had a short and there was another item but I cannot find the email that said exactly what it was. Perhaps you can give him a call and he can tell you exactly what he replaced. The only work bench I have is a small part of a desk and just the basics for tools, it was worth the cost to send it out for repair. After he did the repair he cleaned it, lubed the parts that needed it and tuned the rig to specs. I am very happy with the results.
John K2IZ

6808. Cable for VFO-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 02:21:49 UTC
From: Frank Lambert
Topic: 6808 Message: 6808

This is in response to Wally's post. I have a PDF or JPEG of the schematic for the VFO-820 if that would help. Just send me and e-mail and I will attach it back to you.... I tried to upload it to the "Files" page but its too big a file to be accepted. (about 1 Mb)
73's Frank WB4OUF

6809. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 03:42:56 UTC
From: Peter
Topic: 6772 Message: 6809

Hi all from VK.

There's a mob here called Emtronics (same people that make the Emtron DX-2/DX-3 and DX-4 amplifiers) that use to make a very nice little 300w ATU called an EAT300. I have owned several, having always regretted selling one only to have to buy another when some other so called better ATU would not match my wet piece of string.

I now have their EAT1000A which will match a damp string easily from 160 to 6m... it will tune my G5RV on 6 and able to work DX. Not sure if the 300a is still made but I saw the eat1000a at a field day a few weeks back and can not see any ATUs on their web site at http://www.emtron.com.au/ but might be worth an email to check out US$ price???

With the exchange rate, might be worth looking at a quality made Australian ATU.

Cheers.
Pete.
vk2tpk

--- In TS-520_820_530_830@yahoogroups.com, <wa3syr@...> wrote:
>
> >From: Randy Morton <ke5eot@...>
> >Date: Mon Feb 27 11:42:52 CST 2006
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: Re: [TS-520_820_530_830] Manual antenna tuners
>
> TRY PALSTAR MADE IN OHIO AND NEED HEARD OF A PROBLEM WITH THERE TUNERS
>
>
>
>

6810. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 03:57:51 UTC
From: w3iz
Topic: 6772 Message: 6810

A word of advice about using antenna matching networks to obtain a good SWR reading; A good SWR is not an indicator of an efficient antenna. Think of a dummy load, perfect SWR but lousy radiator.

The tuner or matching network as it is properly known, is designed to efficently transfer power to the antenna or in other words couple the transmitter to the radiator. Think of like the transmission in your car. While it is possible to connect the engine directly to the wheels it would not be the most efficient or effective way to tranfer the power from the engine to the drive wheels.

When tuning short antennas on frequencies like 80m or 160m it is possible that you could be converting much of the RF energy into heat energy.

When all possible cut a resonant antenna for the band that you wish to operate. Suprisingly this will yield more contacts and eliminate a lot of RFI issues that we read about on these reflectors.

73,
Norm, W3IZ
www.w3iz.com
----- Original Message ----- >
> I now have their EAT1000A which will match a damp string easily from
> 160 to 6m... it will tune my G5RV on 6 and able to work DX. Not sure if

6811. Re: [TS-520_820_530_830] Straight key

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 05:16:03 UTC
From: catboat15@aol.com
Topic: 6811 Message: 6811

In a message dated 2/21/2006 4:34:10 P.M. Pacific Standard Time,
TS-520_820_530_830@yahoogroups.com writes:

is there a cw straight-key that i can get without having to make one
for this rig? any recommendations?
I use a brass key that I purchased years ago at a war surplus store. No
markings on it at all, but looks just like the one I used in the army along about
1943 or 1944.
Well maybe there is some markings, but I bolted the key to a sardine can
that I filled with lead. That keeps the sucker from sliding around on the table.
So I am sure you could find a key maybe with one of those code practice
oscillators that are sold various places. My key has old type binding posts (and
a shorting bar) and I just used lamp cord to solder on a plug that fits the
socket on the back of the 520.
Also a key is not too difficult to make, that was one of the projects in my
Jr. High electric shop class.
Now all I have to do is learn to use a key again, Hi hi.

DE K6suf
From the high desert, John Meacham

[Non-text portions of this message have been removed]

6812. Re: Straight key

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 10:44:08 UTC
From: Ravenswood
Topic: 6811 Message: 6812

--- catboat15@... wrote:
> is there a cw straight-key that i can get without having to make one
> for this rig?

Seems like the "K-4 Chinese Military Straight Key" is a good choice.

Reviews are high and it's priced low. Nicely weighted (over 2lbs) and has the connection plug ready-installed (at least for the 520, I don't know about other models, but imagine it's similar.)

Check it out on eBay, eHam.net and, of course, Google.

Frank, K2NCC

6813. Re: [TS-520_820_530_830] Re: Straight key

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 12:05:19 UTC
From: Walt Breining
Topic: 6811 Message: 6813

Here is a site with keys pictured including a 1970's vintage Chinese key. Looks neat. I wonder where/if they are available ? The Chinese key is on page 2.

Page 1: http://foster2.hp.infoseek.co.jp/key1.htm
Page 2: http://foster2.hp.infoseek.co.jp/key2.htm

Vy 73, N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 28, 2006 5:44 AM
Subject: [TS-520_820_530_830] Re: Straight key

> --- catboat15@... wrote:
> > is there a cw straight-key that i can get without having to make one
> > for this rig?
>
> Seems like the "K-4 Chinese Military Straight Key" is a good choice.
>
> Reviews are high and it's priced low. Nicely weighted (over 2lbs) and
> has the connection plug ready-installed (at least for the 520, I don't
> know about other models, but imagine it's similar.)
>
> Check it out on eBay, eHam.net and, of course, Google.
>
> Frank, K2NCC
>

6814. Re: antenna tuner for TS-520 or any other TRX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 12:12:15 UTC
From: Daniel
Topic: 6768 Message: 6814

Hello Frank

If you have any Dipol feeded with ladder line (symetric) I would have a closer look at the following tuners:

200W: http://www.hamware.de/hardware/tuner502/at502-e.htm
1500W: http://www.hamware.de/hardware/tuner515/at515-e.htm
2500W: http://www.hbag.ch/nt/_en/produkte/anpassung/sams.htm

I know, it will be NOT cheap, but.....

Daniel, HB9DDS

6815. Re: antenna tuner for TS-520 or any other TRX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 12:11:21 UTC
From: Daniel
Topic: 6768 Message: 6815

Hello Frank

If you have any Dipol feeded with ladder line (symetric) I would have a closer look at the following tuners:

200W: http://www.hamware.de/hardware/tuner502/at502-e.htm
1500W: http://www.hamware.de/hardware/tuner515/at515-e.htm
2500W: http://www.hbag.ch/nt/_en/produkte/anpassung/sams.htm

I know, it will be NOT cheap, but.....

Daniel, HB9DDS

6816. Re: [TS-520_820_530_830] Re: antenna tuner for TS-520 or any other TRX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 12:22:29 UTC
From: w3iz
Topic: 6768 Message: 6816

If you want to roll your own I have some parts that you may be interested
in.
73,
Norm, W3IZ
www.w3iz.com

6817. Re: Kenwood TS-830S with receive problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 15:37:53 UTC
From: Rick
Topic: 6792 Message: 6817

Look at Rich's (AG6K)website. Good source of 830S fixes.
www.somis.org/830.html

Rick

--- In TS-520_820_530_830@yahoogroups.com, "trwinok" <twright@...> wrote:
>
> Hi Group!
> I have a TS-830S that has developed a recent problem. One morning when
> it was turned on I noticed the receive sensitivity was down. It still
> receives, just not as well. After playing with it a bit I noticed the
> meter was no longer moving at all and the gain control had no affect
> on the received signal. I've already tried replacing the TX/RX relay
> to see if that helped, but it made no difference. Does anyone have
> any suggestions on where to start looking for this problem or has
> anyone ever seen this problem before?
> Many Thanks for your help!
> 73 de AC5N
>

6818. Re: [TS-520_820_530_830] regarding my newly purchased ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 16:39:09 UTC
From: Paul Manuel
Topic: 6802 Message: 6818

--- jamaxton <jamaxton@...> wrote:
> I am new to ham radio and not much of an expert in all of this. The
> radio has all filters in it but one of them is facing the other way.

I think the filters can go in either way. As far as the dent is concerned, the fact that you are concerned about it would tend to make me think you should send it back, especially if you are not confident that the rig is working properly.

I personally would keep the radio if I got it at a decent price and it worked as it should, but as I say, if it bothers you enough to ask the question, you probably should get your refund.
73,
Paul K4PDM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6819. Re: [TS-520_820_530_830] regarding my newly purchased ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 16:44:02 UTC
From: Paul Manuel
Topic: 6802 Message: 6819

--- Paul Manuel <k4pdm@...> wrote:
I personally would keep the radio if I got it at a decent price and it
> worked as it should, but as I say, if it bothers you enough to ask the
> question, you probably should get your refund.

I probably should add that imperfections will probably bother you more as
time goes by--at least, that's how it is with me!
73,
Paul K4PDM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6820. MH4P omron relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 20:25:45 UTC
From: nigel4416
Topic: 6820 Message: 6820

I have a TS-820 and have had problems with the meter being intermittant on receive and on drive peaking and ALC monitoring. I thought it was a fault on the IF board but now think it is an intermittancy in the relay board somewhere.
If I need to replace the relay, can anyone tell me where I can get hold of a 385 ohm OMRON MH4P relay. I live in the UK.
I look forward to a reply

6821. Re: [TS-520_820_530_830] MH4P omron relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 20:36:42 UTC
From: Bill Richarz
Topic: 6820 Message: 6821

I bought a replacement from Ken's Electronic Parts.
http://www.kenselectronics.com

Ph. No. (269) 345-4609

The price was $18.00 US.

New relay fixed my problem of S meter hanging up when
going from xmit to receive and making a sucking sound
which was very irritable. Just tell him you need the
main relay with 385 ohms.

Good luck,
73 de Bill, N4DH

--- nigel4416 <nj.trewin@...> wrote:

> I have a TS-820 and have had problems with the meter
> being
> intermittant on receive and on drive peaking and ALC
> monitoring. I
> thought it was a fault on the IF board but now think
> it is an
> intermittancy in the relay board somewhere.
> If I need to replace the relay, can anyone tell me
> where I can get
> hold of a 385 ohm OMRON MH4P relay. I live in the
> UK.
> I look forward to a reply
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6822. Re: [TS-520_820_530_830] MH4P omron relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 22:24:25 UTC
From: Walt Breining
Topic: 6820 Message: 6822

TS 820
While you are in there VR4 on the AF AVR board is known to become intermittent. Touch it with a plastic tool and see if the rig goes crazy. Is so it will need replacing and resetting..

vy 73, Walt N9WB

----- Original Message -----
From: "nigel4416" <nj.trewin@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 28, 2006 3:25 PM
Subject: [TS-520_820_530_830] MH4P omron relay

> I have a TS-820 and have had problems with the meter being
> intermittant on receive and on drive peaking and ALC monitoring. I
> thought it was a fault on the IF board but now think it is an
> intermittancy in the relay board somewhere.
> If I need to replace the relay, can anyone tell me where I can get
> hold of a 385 ohm OMRON MH4P relay. I live in the UK.
> I look forward to a reply
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6823. Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 22:50:22 UTC
From: Roberto Baca Barnard
Topic: 6823 Message: 6823

Hello Walt and group:

You say driver tube next suspect? Will have to buy one then. Why?

Borrowed a Fluke meter from local TV repair guy and tested my MFJ tuner; thought perhaps diode or two, R near TX input toroid might be shorted per MFJ tech's on-phone advice. Nope. Looks okay. Mechanically sound and the Dummy Load resistor tests at 43 ohms--within tolerance.

Re ALC on full CAR out: over 275 pushing 300ma into "tuned" dummy load but 50w r.f. output max.

Opened up TS820 preliminarily to see where driver tube can is; yup--right on top. Took off fan on back to peer in at Finals area. The tubes have brown bases and what appears to be Japanese written on 'em.

Please more advice...will cough up for 12BY DRIVER TUBE from surplus sales if sound store. Here in NYC there's a place called Leed's Electronics out in Brooklyn (been around since Hiram Percy Maxim was still W1AW I think) but mail order tubes might be best?

tnx much

73
Rob

6824. Re: [TS-520_820_530_830] Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-02-28 23:31:23 UTC
From: Walt Breining
Topic: 6823 Message: 6824

I'll have to check my messages when I get back. I still think that your rig is OK your problem is outside of the rig. I reply to so many messages, I may have thought that I was replying to two different problems.

Vy 73, Walt N9WB

----- Original Message -----
From: "Roberto Baca Barnard" <barnardbaca@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 28, 2006 5:50 PM
Subject: [TS-520_820_530_830] Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

> Hello Walt and group:
>
> You say driver tube next suspect? Will have to buy one then. Why?
>
> Borrowed a Fluke meter from local TV repair guy and tested my MFJ
> tuner; thought perhaps diode or two, R near TX input toroid might be
> shorted per MFJ tech's on-phone advice. Nope. Looks okay. Mechanically
> sound and the Dummy Load resistor tests at 43 ohms--within tolerance.
>
> Re ALC on full CAR out: over 275 pushing 300ma into "tuned" dummy load
> but 50w r.f. output max.
>
> Opened up TS820 preliminarily to see where driver tube can is; yup--
> right on top. Took off fan on back to peer in at Finals area. The tubes
> have brown bases and what appears to be Japanese written on 'em.
>
> Please more advice...will cough up for 12BY DRIVER TUBE from surplus
> sales if sound store. Here in NYC there's a place called Leed's
> Electronics out in Brooklyn (been around since Hiram Percy Maxim was
> still W1AW I think) but mail order tubes might be best?
>
> tnx much
>
> 73
> Rob
>
>
>
>
>
>
>

>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6825. Question re: use of 6146A tubes in 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 00:03:26 UTC
From: Sue Kent
Topic: 6825 Message: 6825

Hi everyone!

I'm new to this group and recently purchased an 830S on eBay. While installing the CW filters and doing a routine check, I noticed that the finals are 6146A's instead of 6146B's. I'm concerned that the rig has been damaged by the previous owner's use of the wrong tubes. It seems to transmit and receive fine but I've only transmitted on it once from a friend's house (I don't have an antenna yet). The power out was about 80-90 Watts. Should I replace the tubes? If so, is it OK to use the 6146W series or is that subject to debate as well? Help!!

Thanks in advance,
Sue KZ9L

6826. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 00:55:51 UTC
From: james27613
Topic: 6804 Message: 6826

hi wally,

the vfo conector is 9 pin miniature on top,
not the larger 8 pin accessory connector.

the cable is 1-1 straight connect,
pin 7 is not used.

the male plugs are available from
kenwoodparts.com, part numbers in the
database section of this group.

73 james ke4drn

6827. Re: [TS-520_820_530_830] Question re: use of 6146A tubes in 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 02:40:47 UTC
From: w3iz
Topic: 6825 Message: 6827

Hi Sue.
The 6146A tubes are just fine.

Please check out the info on the 6146 family of tubes.
http://home.comcast.net/~zcomco/The_6146_Family_of_Tubes_1.htm

Your tubes may be soft if only 90 watts across the bands. I would give the rig a complete cleaning of all controls with de-oxit and check the usual meter readings -bias, IP, HV, etc to make sure all is well befor digging into the rig.

73,
Norm, W3IZ
www.w3iz.com
----- Original Message -----
From: "Sue Kent" <suemkent@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 28, 2006 7:03 PM
Subject: [TS-520_820_530_830] Question re: use of 6146A tubes in 830S

> Hi everyone!
>
> I'm new to this group and recently purchased an 830S on eBay. While
> installing the CW filters and doing a routine check, I noticed that the
> finals are 6146A's instead of 6146B's. I'm concerned that the rig has
> been damaged by the previous owner's use of the wrong tubes. It seems
> to transmit and receive fine but I've only transmitted on it once from
> a friend's house (I don't have an antenna yet). The power out was about
> 80-90 Watts. Should I replace the tubes? If so, is it OK to use the
> 6146W series or is that subject to debate as well? Help!!
>
> Thanks in advance,
> Sue KZ9L
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

>

6828. Re: [TS-520_820_530_830] Question re: use of 6146A tubes in 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 09:05:43 UTC
From: Walt Breining
Topic: 6825 Message: 6828

6146A tubes shouldn't hurt your rig. What band was it 80 to 90 watts? Was that tuned for max on 40 meters with the carrier control fully up? Are you sure that your watt meter is reading correctly?
Was this into a dummy load? If not what SWR?

I doubt if there is anything wrong. Enjoy the rig.

Vy 73, Walt N9WB

----- Original Message -----
From: "Sue Kent" <suemkent@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, February 28, 2006 7:03 PM
Subject: [TS-520_820_530_830] Question re: use of 6146A tubes in 830S

> Hi everyone!
>
> I'm new to this group and recently purchased an 830S on eBay. While
> installing the CW filters and doing a routine check, I noticed that the
> finals are 6146A's instead of 6146B's. I'm concerned that the rig has
> been damaged by the previous owner's use of the wrong tubes. It seems
> to transmit and receive fine but I've only transmitted on it once from
> a friend's house (I don't have an antenna yet). The power out was about
> 80-90 Watts. Should I replace the tubes? If so, is it OK to use the
> 6146W series or is that subject to debate as well? Help!!
>
> Thanks in advance,
> Sue KZ9L
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6829. (no subject)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 18:44:22 UTC
From: Norman Young
Topic: 6829 Message: 6829

Tom. let me echo Ken's suggestion.

Several years ago, I wanted to get back into HF, and I bought a used Kenwood pair (R & T 599D) from a commercial dealer at a hamfest. I loved the radios, but I discovered that when I tried to tune the transmitter up on the higher bands, it would not tune. So, I ended up shipping the transmitter back to the dealer for repair. He fixed it and shipped it back via UPS.

When I got it back, the rig had obviously been dropped on its back panel during shipment. The fan housing was pushed into the back of the rig, and the bottom was warped so that it did not sit level. The packing appeared to be good, but it had really been mishandled. The dealer was a real pro about it. He had insured the radio for the return and immediately sent me a refund. He did the hassle work of collecting from UPS. I saw the dealer at another hamfest a short time later, and he told me that he finally got his money from them.

Shippers don't seem to like electronics all that much.

Oh, and I used the refund to get my 520. :)

Norman

<SNIP>
Message: 4
Date: Mon, 27 Feb 2006 20:13:31 -0500
From: "Ken Winterling" <wa2lbi@...>
Subject: Re: regarding my newly purchased ts-830s

Tom,

The mechanical issues you describe with the coax connector and fan are
not normal and are indicative of an impact. The rig may have fallen
and landed on the rear. Check the insulator of the coax connector for
broken pieces. Was the rig shipped to you? This could be shipping
damage. Check the carton for damage. Was there adequate packaging
to prevent the rig from moving in the carton?

Good luck.

Ken, WA2LBI

On 2/27/06, jamaxton <jamaxton@...> wrote:

<SNIP>

As I have
> several daays to return the radio, do these things seem worthy of returning
the
> rig. It does work. I made some contacts. Too new to tell if its working at

its
> best. Cosmetically, should they have sold it to me that way. Would
> appreciate any comments that could ease my worries or let me know to send
> it back if need be. Thanks for any help you can give.
>
Sincerely, Tom kb1mak

Wrong is wrong even if everybody is doing it, and right is right even if nobody is doing it.

- Augustine

6830. Shipping (?) Damage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 18:45:29 UTC
From: Norman Young
Topic: 6830 Message: 6830

Tom. let me echo Ken's suggestion.

Several years ago, I wanted to get back into HF, and I bought a used Kenwood pair (R & T 599D) from a commercial dealer at a hamfest. I loved the radios, but I discovered that when I tried to tune the transmitter up on the higher bands, it would not tune. So, I ended up shipping the transmitter back to the dealer for repair. He fixed it and shipped it back via UPS.

When I got it back, the rig had obviously been dropped on its back panel during shipment. The fan housing was pushed into the back of the rig, and the bottom was warped so that it did not sit level. The packing appeared to be good, but it had really been mishandled. The dealer was a real pro about it. He had insured the radio for the return and immediately sent me a refund. He did the hassle work of collecting from UPS. I saw the dealer at another hamfest a short time later, and he told me that he finally got his money from them.

Shippers don't seem to like electronics all that much, and it may well be that the radio left the seller just fine.

Oh, and I used the refund to get my 520. :)

Norman

<SNIP>
Message: 4
Date: Mon, 27 Feb 2006 20:13:31 -0500
From: "Ken Winterling" <wa2lbi@...>
Subject: Re: regarding my newly purchased ts-830s

Tom,

The mechanical issues you describe with the coax connector and fan are
not normal and are indicative of an impact. The rig may have fallen
and landed on the rear. Check the insulator of the coax connector for
broken pieces. Was the rig shipped to you? This could be shipping
damage. Check the carton for damage. Was there adequate packaging
to prevent the rig from moving in the carton?

Good luck.

Ken, WA2LBI

On 2/27/06, jamaxton <jamaxton@...> wrote:

<SNIP>

As I have
> several daays to return the radio, do these things seem worthy of returning
the

> rig. It does work. I made some contacts. Too new to tell if its working at
its
> best. Cosmetically, should they have sold it to me that way. Would
> appreciate any comments that could ease my worries or let me know to send
> it back if need be. Thanks for any help you can give.
>
Sincerely, Tom kb1mak

Wrong is wrong even if everybody is doing it, and right is right even if nobody is doing it.

- Augustine

6831. AT-200 Part Needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 19:56:58 UTC
From: Frank Lambert
Topic: 6831 Message: 6831

Does anyone happen to have a "fried" AT-200 with a good "R" tuning capacitor they might want to part with. If not, possibly someone could lead me in the right direction. I have tried the East and West sources and, the part I need is not available. The insulated shaft on mine is "busted" beyond repair. Thanks es 73's
Frank WB4OUF...

6832. TS-830S RF-coils

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 20:24:03 UTC
From: lz5zm_p
Topic: 6832 Message: 6832

I own TS-830S and it's not in best condition. Does anyone knows the specifications of the RF-coils at
the front-end of the transceiver? On my radio, few have a cracked slugs and replacing entirely the coils might be a better solution. On 10.1MHz the radio is almost "deaf". Thanks in advance!!! LZ5ZM, Kalo.

6833. Re: Shipping (?) Damage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 21:48:09 UTC
From: Graham
Topic: 6830 Message: 6833

>
> Shippers don't seem to like electronics all that much, and it may
well be that the radio left the seller just fine.
>
Nine times out of ten it's the drivers.

I recall a big box of assorted 'pooter gear[s/h] we had delivered at
work a whileback.
It had been very well packed, and suitably labelled [like how big do
you want the word 'fragile' to be ?]

It came off the wagon upside down, and did not survive the 3 foot drop
onto the road.

6834. Re: Shipping (?) Damage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 22:21:06 UTC
From: Steve Porter
Topic: 6830 Message: 6834

I think the important thing when receiving goods like this, if they look like they've been dropped and the packaging is obviously damaged, don't sign for it. You have a much stronger case when you claim for it then. When you sign for it you're basically agreeing that you received the item in good condition.

Steve P.

--- In TS-520_820_530_830@yahoogroups.com, "Graham" <graham@...> wrote:
>
>
> >
> > Shippers don't seem to like electronics all that much, and it may
> well be that the radio left the seller just fine.
> >
> Nine times out of ten it's the drivers.
>
> I recall a big box of assorted 'pooter gear[s/h] we had delivered at
> work a whileback.
> It had been very well packed, and suitably labelled [like how big do
> you want the word 'fragile' to be ?]
>
> It came off the wagon upside down, and did not survive the 3 foot drop
> onto the road.
>

6835. Re: [TS-520_820_530_830] Shipping (?) Damage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-01 22:20:28 UTC
From: Peter A Markavage
Topic: 6830 Message: 6835

Not to get off the track here from the original thread but the most common problem with the Twins not working the higher bands on transmit is the deterioration on over time of the pre-driver transistor, 3SK22. It drives the 12BY7, sits nearby it, and is the only one that has a transistor socket. It's easy why Kenwood used a socket here. Lots of heat from the 12BY7 kills the high frequency response of the transistor making it useless on the higher bands over time.

Pete, wa2cwa

On Wed, 1 Mar 2006 13:45:29 -0500 Norman Young
<normany27597@...> writes:
Tom. let me echo Ken's suggestion.

Several years ago, I wanted to get back into HF, and I bought a used Kenwood pair (R & T 599D) from a commercial dealer at a hamfest. I loved the radios, but I discovered that when I tried to tune the transmitter up on the higher bands, it would not tune. So, I ended up shipping the transmitter back to the dealer for repair. He fixed it and shipped it back via UPS.

When I got it back, the rig had obviously been dropped on its back panel during shipment. The fan housing was pushed into the back of the rig, and the bottom was warped so that it did not sit level. The packing appeared to be good, but it had really been mishandled. The dealer was a real pro about it. He had insured the radio for the return and immediately sent me a refund. He did the hassle work of collecting from UPS. I saw the dealer at another hamfest a short time later, and he told me that he finally got his money from them.

Shippers don't seem to like electronics all that much, and it may well be that the radio left the seller just fine.

Oh, and I used the refund to get my 520. :)

Norman

<SNIP>
Message: 4
Date: Mon, 27 Feb 2006 20:13:31 -0500
From: "Ken Winterling" <wa2lbi@...>
Subject: Re: regarding my newly purchased ts-830s

Tom,

The mechanical issues you describe with the coax connector and fan are not normal and are indicative of an impact. The rig may have fallen

and landed on the rear. Check the insulator of the coax connector for broken pieces. Was the rig shipped to you? This could be shipping damage. Check the carton for damage. Was there adequate packaging to prevent the rig from moving in the carton?

Good luck.

Ken, WA2LBI

On 2/27/06, jamaxton <jamaxton@...> wrote:

<SNIP>

As I have
> several daays to return the radio, do these things seem worthy of returning
the
> rig. It does work. I made some contacts. Too new to tell if its working at
its
> best. Cosmetically, should they have sold it to me that way. Would
> appreciate any comments that could ease my worries or let me know to send
> it back if need be. Thanks for any help you can give.
>
Sincerely, Tom kb1mak

Wrong is wrong even if everybody is doing it, and right is right even if nobody is doing it.

- Augustine

[Non-text portions of this message have been removed]

6836. Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 01:55:47 UTC
From: Roberto Baca Barnard
Topic: 6823 Message: 6836

As mentioned I get over 280 ALC reading (drive peaked optimally as well) but RF output 40-50 watts max and then SWR reflected goes up fast and CAR control spongey, ineffective. Don't have wattmeter unfortunetely $.

If it's indeed outside of rig then can ONLY be MFJ transmatch. Antenna (dipole) is mechanically sound (checked it, double checked). It's made with one of those TenTec ladder/coax grippers and connection solid.

tnx Walt for your assistance when you have a chance.

73,

RBB WB7AVF

6837. Is it me or my TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 06:25:06 UTC
From: wohtex
Topic: 6837 Message: 6837

Hello to the group. I have a TS-520 that is teaching me troubleshooting techniques for the electronicaly challenged. I posted last Sept with ALC problems on tune up and found I had a bad 12BY7A which I replaced and it seemed to solve my problems. I also discovered at that time the final tubes were mismatched a 6146A & 6146B (this is an ex-radio club radio purchased off e-bay) anyway I set the 520 aside and have been playing qrp with another radio. I also have the TV-502S 2 meter transverter that I had not been able to get working, so last week I went back to checking it and found the cable between the 520 output to transverter input had a broken center connection, once repaired I got the 520 back out and found it would only provide enough drive to the TV-502S for about 2 watts out so tonight I checked out the TS-520 again on each band and here is what I get. First on transmit I measure 850 volts HV and when checking the IP I can run it up to 250ma which will hold steady. all tune ups were done on a dummy load and external watt meter. I also had a Yaesu FT-77 sitting on the desk with antenna disconnected. Initial IP checks on all bands was 60ma. using the tune up directions in the manual here is what I get.

1. 28.300 MHZ, No ALC with carrier control up to 10 and drive to max.,on changing to IP no reading and plate control wouldn't produce any activity, meter to RF load control would go to 20ma scale, on cw RF reading would stay the same no further tuning would produce more, IP would read 130ma watt meter 40 watts, S meter on FT-77 10 over 9.
2. 21.300 MHZ, ALC to 70ma with carrier control on 10, go to IP reads 20ma and no plate dip, go to RF and meter max right readjusted for 2/3 scale, on cw RF tuned to 70 watts out and IP of 240ma, FT-77 showing 10 over 9.
3. 14.300 MHZ, ALC at 120ma with carrier control on 10 (noted that sometimes drive control would not produce anything and on retry all at once at a sharp point it would produce ALC reading with a sudden meter jump) turned to IP and plate would dip about 5ma, turned to RF and load control wold not increase reading, turned to cw RF and could tune 200ma scale and 100 watts out with IP at 200ma FT-77 20 over 9.
4. 7.300 MHZ, ALC 150ma scale with carrier control to 10, go to IP and plate will dip 10ma, go to RF reading 40ma scale and load control will not increase reading, changed to cw RF and load & plate will produce a reading of 50ma scale, watt meter reads 100 watts Ip will check at 220ma.
5. 3.900 MHZ, ALC zero, change to IP 30ma with no plate dip, changed to RF no reading and load control would not produce anything, changed to cw RF reads at 60ma scale no change with load and plate adjustment, watt meter shows 70 watts out, IP checked at 200ma, FT77 shows 10 over 9.
With a MC-50 mic and mic gain set between 8 & 9 I would get about 3/4 scale on alc meter on voice peaks.

I am concerned about areas that don't show a meter reading and I don't know if its my mistuning or what. Have a new set of final tubes but don't want to put them in and damage them. Have considered that problem may be due to RF Section Alignment or Drive Coil Alignment or possibley these final tubes just stuck in the rig to sell it and never neutralized.
O.K. after reading all of this you guys take a break then come back and share your expertise on these great radio's. If I can get this rig operating right I'll have the confidence to chage the band switch coupling on my TS-830 parts on hand just building up nerve. Got to learn someway.

thanks to everyone that took the time to read all of this.
73
Bill N5CCQ

6838. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 06:33:32 UTC
From: Steve Porter
Topic: 6804 Message: 6838

How do you order the plugs on the Kenwoodparts website? I tried to order some and it just tells me that part is discontinued and won't let me go any further.

Does anyone know of an equivalent that would work and would be easier to source?

Steve P.

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi wally,
>
> the vfo conector is 9 pin miniature on top,
> not the larger 8 pin accessory connector.
>
> the cable is 1-1 straight connect,
> pin 7 is not used.
>
> the male plugs are available from
> kenwoodparts.com, part numbers in the
> database section of this group.
>
> 73 james ke4drn
>

6839. Thank you for your comments on the somewhat deformed back on my new 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 12:12:57 UTC
From: jamaxton
Topic: 6839 Message: 6839

Hi group and folks who answered my question,

I thank you greatly for your helpful comments about my rig. I just went and looked at the back again with even a magnifier. The fan housing looks mint and doesnt appear to have taken the load that would be needed to deflect the metal back under it and the coax connector about 1/8 inch inward. Also, the coax connector is very solid with no play . I now would have to think that an impact load newly done would have left it a bit wiggily. I can only hope that the seller / repairman had inspected it as he told me before I bought it that he went over it completely and alligned, lubed and checked all functions on all modes. He also said the tubes were right up there and the set looked like it had low time. Perhaps he fixed it if it was wiggely or loose. Also the box came in to me from fedex in a very good shape. He has given me time to check it out and send it back for repair or refund if I feel its needed. I truly love the rig and it suits me just fine. I dont really want to spend another 800 dollars to get one of thse menu driven complex new radios. Thanks again. This is a great group and I am very happy to be a member of it.
sincerely, Tom kb1mak

6840. Re: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 16:44:12 UTC
From: Walt Breining
Topic: 6823 Message: 6840

Go to Ace Hardware. Get a rubber light bulb socket like is used for
temporary lights in construction sites. Place a 100 watt light bulb in the
socket. Hook it directly to your Kenwood via a PL 259. Tune up the Kenwood
into it. Does it glow bright ? If so, your problem is outside your rig.

Vy 73, Walt N9WB

----- Original Message -----
From: "Roberto Baca Barnard" <barnardbaca@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 01, 2006 8:55 PM
Subject: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

> As mentioned I get over 280 ALC reading (drive peaked optimally as well)
> but RF output 40-50 watts max and then SWR reflected goes up fast and
> CAR control spongey, ineffective. Don't have wattmeter unfortunetely $.
>
> If it's indeed outside of rig then can ONLY be MFJ transmatch. Antenna
> (dipole) is mechanically sound (checked it, double checked). It's made
> with one of those TenTec ladder/coax grippers and connection solid.
>
> tnx Walt for your assistance when you have a chance.
>
> 73,
>
> RBB WB7AVF
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6841. Re: [TS-520_820_530_830] Thank you for your comments on the somewhat deformed back on my new 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 16:57:13 UTC
From: Walt Breining
Topic: 6839 Message: 6841

Put a sleeve from a PL 250 on the coax connector. Use a pair of channel locks and pull the back into place. N9WB Walt
----- Original Message -----
From: "jamaxton" <jamaxton@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, March 02, 2006 7:12 AM
Subject: [TS-520_820_530_830] Thank you for your comments on the somewhat deformed back on my new 830s

> Hi group and folks who answered my question,
>
> I thank you greatly for your helpful comments about my rig. I just went
> and looked at the back again with even a magnifier. The fan housing looks
> mint and doesnt appear to have taken the load that would be needed to
> deflect the metal back under it and the coax connector about 1/8 inch inward.
> Also, the coax connector is very solid with no play . I now would have to think
> that an impact load newly done would have left it a bit wiggily. I can only
> hope that the seller / repairman had inspected it as he told me before I bought
> it that he went over it completely and alligned, lubed and checked all
> functions on all modes. He also said the tubes were right up there and the set
> looked like it had low time. Perhaps he fixed it if it was wiggely or loose. Also
> the box came in to me from fedex in a very good shape. He has given me
> time to check it out and send it back for repair or refund if I feel its needed. I
> truly love the rig and it suits me just fine. I dont really want to spend another
> 800 dollars to get one of thse menu driven complex new radios. Thanks
> again. This is a great group and I am very happy to be a member of it.
> sincerely, Tom
kb1mak
>
>
>
>
>
>
> Yahoo! Groups Links

>
>
>
>
>
>
>
>

6842. RE: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 18:07:39 UTC
From: Hauser, Ron M.
Topic: 6823 Message: 6842

Hi Roberto. I read your previous message and you said your MFJ tuner checked out ok. However, I must tell you I experienced similar symptoms; spent much time fretting about radio problems, and found that the forward power diode was out of my MFJ tuner. From my research at that time, I found out that many people have the diodes go out of these tuners, it is a common problem. Two new 25 cent diodes, soldered in on top of the old leads, fixed my problem. In my case the forward power diode was completely dead, it would barely read a few watts when the radio was on full power. In your case, I wonder if your forward power diode is "half-dead" which might allow it to test ok with a fluke, but not give valid readings on SWR when you run up over 50 watts.

If I were you I would look long and hard to find someone who has a wattmeter you can borrow for a few minutes to verify that the problem is or is not the radio. In the abscense of a wattmeter to prove the location of the problem, I would go over that MFJ tuner with a fine toothed comb, and even if you can't find a failure in the diodes, it is probably easy to replace them. On mine, the diodes were on top of the main board, which is hard to remove, but I just snipped the diode out leaving the leads on top of the board and soldered the replacements to the old leads. Five minutes of soldering and it has worked like a champ since then.

Good Luck!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Roberto Baca Barnard
Sent: Wednesday, March 01, 2006 7:56 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

As mentioned I get over 280 ALC reading (drive peaked optimally as well) but RF output 40-50 watts max and then SWR reflected goes up fast and CAR control spongey, ineffective. Don't have wattmeter unfortunetely $.

If it's indeed outside of rig then can ONLY be MFJ transmatch. Antenna (dipole) is mechanically sound (checked it, double checked). It's made with one of those TenTec ladder/coax grippers and connection solid.

tnx Walt for your assistance when you have a chance.

73,

RBB WB7AVF

Yahoo! Groups Links

6843. RE: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 18:20:17 UTC
From: RBB
Topic: 6823 Message: 6843

Hey Ron:
You know, to be honest--I got that suspicion too, regardless of the Fluke test which was done on the fly. The clip and solder idea sounds like a winner, especially cause it's fast. LOGIC tells me you're on to something; the ODD meter readings plus over-the-phone MFJ tech Janet's mention of the diodes initially had me onto that.

I'm gonna do Walt's lightbulb test (what's a 100 watt bulb HI HI) AND resolder piggy-back a couple germanium diodes I'll raid from an old t.v. set. I know a wattmeter's in order; must get for future work anyhow.

Won't bug you fellas til I do these things. By the way, this TS820 was well cared for by its previous owner in Seattle area. Very nice condition. It's barebones model; no CW filter, no 820S digital readout (fine by me), no XTALS. The owner did install the mobile power converter I see.

anyway, tnx much and

73
--- "Hauser, Ron M." <eichmann@...> escribi?:

Hi Roberto. I read your previous message and you said your MFJ tuner
checked out ok. However, I must tell you I experienced similar
symptoms; spent much time fretting about radio problems, and found that
the forward power diode was out of my MFJ tuner. From my research at
that time, I found out that many people have the diodes go out of these
tuners, it is a common problem. Two new 25 cent diodes, soldered in on
top of the old leads, fixed my problem. In my case the forward power
diode was completely dead, it would barely read a few watts when the
radio was on full power. In your case, I wonder if your forward power

diode is "half-dead" which might allow it to test ok
with a fluke, but
not give valid readings on SWR when you run up over 50
watts.

If I were you I would look long and hard to find
someone who has a
wattmeter you can borrow for a few minutes to verify
that the problem is
or is not the radio. In the abscense of a wattmeter
to prove the
location of the problem, I would go over that MFJ
tuner with a fine
toothed comb, and even if you can't find a failure in
the diodes, it is
probably easy to replace them. On mine, the diodes
were on top of the
main board, which is hard to remove, but I just
snipped the diode out
leaving the leads on top of the board and soldered the
replacements to
the old leads. Five minutes of soldering and it has
worked like a champ
since then.

Good Luck!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf
Of Roberto Baca
Barnard
Sent: Wednesday, March 01, 2006 7:56 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820
POWER OUTPUT DOWN

As mentioned I get over 280 ALC reading (drive peaked
optimally as well)
but RF output 40-50 watts max and then SWR reflected
goes up fast and
CAR control spongey, ineffective. Don't have wattmeter
unfortunetely $.

If it's indeed outside of rig then can ONLY be MFJ
transmatch. Antenna
(dipole) is mechanically sound (checked it, double
checked). It's made

with one of those TenTec ladder/coax grippers and
connection solid.

tnx Walt for your assistance when you have a chance.

73,

RBB WB7AVF

Yahoo! Groups Links

SPONSORED LINKS
Ham
radio Craft hobby
Hobby and craft
supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

_____
Do You Yahoo!?
La mejor conexi?n a Internet y 2GB extra a tu correo por $100 al mes.
http://net.yahoo.com.mx

6844. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-02 21:52:47 UTC
From: G Bay
Topic: 6772 Message: 6844

Truer words never spoken!
73
Gary/wb3dsj

w3iz <w3iz@...> wrote:
A word of advice about using antenna matching networks to obtain a good SWR reading; A good SWR is not an indicator of an efficient antenna. Think of a dummy load, perfect SWR but lousy radiator.

The tuner or matching network as it is properly known, is designed to efficently transfer power to the antenna or in other words couple the transmitter to the radiator. Think of like the transmission in your car. While it is possible to connect the engine directly to the wheels it would not be the most efficient or effective way to tranfer the power from the engine to the drive wheels.

When tuning short antennas on frequencies like 80m or 160m it is possible that you could be converting much of the RF energy into heat energy.

When all possible cut a resonant antenna for the band that you wish to operate. Suprisingly this will yield more contacts and eliminate a lot of RFI issues that we read about on these reflectors.

73,
Norm, W3IZ
www.w3iz.com
----- Original Message ----- >
> I now have their EAT1000A which will match a damp string easily from
> 160 to 6m... it will tune my G5RV on 6 and able to work DX. Not sure if

Yahoo! Groups Links

Yahoo! Mail
Bring photos to life! New PhotoMail makes sharing a breeze.

[Non-text portions of this message have been removed]

6845. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-03 00:35:28 UTC
From: Charles Mortimer
Topic: 6772 Message: 6845

this winter in vk
using a vertical hf6v miss matched with a ft7 with 10 watts into a
home brew Trans matcher from vk6 western Australia contact was
obtained right up to LA north east coast of Norway working qrp
with Trans match removed no signal heard
and also worked into Russia with the same set up
I agree about getting your antenna as close as possible (cut and match)
some of us have less than perfect situations
why use a gear box in a vehicle (to enable the vehicle to encounter
different situations) like hills and to take of from a standing start
easily
a.t.u. does a similar job
use an atu it will help that small miss match nothing wrong with a
little help
vk6ycj
----- Original Message -----
From: "G Bay" <botr8@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 03, 2006 5:52 AM
Subject: Re: [TS-520_820_530_830] Manual antenna tuners

> Truer words never spoken!
> 73
> Gary/wb3dsj
>
> w3iz <w3iz@...> wrote:
> A word of advice about using antenna matching networks to obtain a good
> SWR
> reading; A good SWR is not an indicator of an efficient antenna. Think of
> a dummy load, perfect SWR but lousy radiator.
>
> The tuner or matching network as it is properly known, is designed to
> efficently transfer power to the antenna or in other words couple the
> transmitter to the radiator. Think of like the transmission in your car.
> While it is possible to connect the engine directly to the wheels it would
> not be the most efficient or effective way to tranfer the power from the
> engine to the drive wheels.
>
> When tuning short antennas on frequencies like 80m or 160m it is possible
> that you could be converting much of the RF energy into heat energy.
>
> When all possible cut a resonant antenna for the band that you wish to
> operate. Suprisingly this will yield more contacts and eliminate a lot of
> RFI issues that we read about on these reflectors.
>

> 73,
> Norm, W3IZ
> www.w3iz.com
> ----- Original Message ----- >
>> I now have their EAT1000A which will match a damp string easily from
>> 160 to 6m... it will tune my G5RV on 6 and able to work DX. Not sure if
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> ---
> Yahoo! Mail
> Bring photos to life! New PhotoMail makes sharing a breeze.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6846. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-03 03:09:31 UTC
From: james27613
Topic: 6804 Message: 6846

hi,

I also checked pacparts.com on the west coast,
the part is also out of stock.

Looks like the supply has dried up !

73 james ke4drn

6847. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-03 03:17:32 UTC
From: Frank Lambert
Topic: 6804 Message: 6847

Hi,
Check here. They are showing it available...GL es 73's
Frank WB4OUF
http://www.partstore.com/PartNumberSearchResults.aspx?PartNumber=E05-0901-05

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi,
>
> I also checked pacparts.com on the west coast,
> the part is also out of stock.
>
> Looks like the supply has dried up !
>
> 73 james ke4drn
>

6848. Re: [TS-520_820_530_830] Manual antenna tuners

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-03 10:56:30 UTC
From: Walt Breining
Topic: 6772 Message: 6848

While this is very true, an antenna system does not have to have a good SWR or be resonant to be efficient. A good general rule of thumb is that any system fed with coax needs to be resonant and provide a good match to the coax at the feed-point.

If an antenna that once had a good SWR or is supposed to have a good SWR develops a high SWR, it is an indication of a malfunction and cannot simply be fixed with a tuner. The physical problem has to be addressed

Antennas fed with good quality balanced line do not have to be resonant or have a match to the line at the feed-point. When fed with balanced line, if the antenna is at least 1/8 wave on each side, half of a 1/2 wave dipole, the efficiency will be a bit down, but not all that bad.

When high SWR causes loss, it usually occurs in coaxial line. This is assuming that the design and connections are of good integrity and the radiating portion is made of a good conductor.

A 80 meter dipole is not going to be efficient on 40 or 160 meters even if the tuner will tune it, if it is fed with coax.

If fed with balanced line, this same antenna will be very efficient on all H.F. frequencies above 3.5 MHz and only slightly reduced in efficiency on 160 meters. Unfortunately, most automatic tuners do not have the range to tune such an antenna, but most good manual ones do.

If a tuner will not except balanced line, a balun can be placed at the back of the tuner and connected to the coax input with a short coax jumper. I have had just as good of success using 1:1 baluns as I have using 4:1 baluns this way.

Of course, the above described antenna would be SLIGHTLY better on 160 meters if it was a half wave or longer on 160, and would be about the same efficiency on the frequencies above 160.

So if the SWR is high, and you are using coax, and the coax is more than 10 ft. or so long, you are going to have high loss. If you are using quality balanced line, you should not have high loss provided the antenna is at least half of the overall length of a half wave dipole. The shortening will cause a slight reduction in efficiency but you would be surprised at how little this is even when reduced to 1/2 the required length for a 1/2 wave dipole.

It is interesting what you find out when you run this stuff on EZ-NEC.

Now one more thing:

The reason Coax is lossier at high SWR is that on any feed-line, SWR multiplies the flat line losses more and more as the SWR increases. Compared to balanced line, even very good coax has much greater loss when flat than balanced line when flat. Even though the flat losses on coax are greater, when operated flat they are still so low so as to be of little problem. But when multiplied these coax losses become significant. Since the flat losses of balanced line is so low, it does not amount to nearly as much when multiplied due to a high SWR.

A very low number when multiplied by a number is less than a higher number multiplied by the same number.

Feed-line loss is a function of length. So a short coax with a high SWR will have less multiplied loss than a long one.

I hope that this is all about an antenna for a Kenwood or I am off topic.

There is a good Yahoo Group ham-antennas@yahoogroups.com where we discuss things like this all the time.

Vy 73, Walt N9WB

----- Original Message -----
From: "G Bay" <botr8@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, March 02, 2006 4:52 PM
Subject: Re: [TS-520_820_530_830] Manual antenna tuners

> Truer words never spoken!
> 73
> Gary/wb3dsj
>
> w3iz <w3iz@...> wrote:
> A word of advice about using antenna matching networks to obtain a good
SWR
> reading; A good SWR is not an indicator of an efficient antenna. Think of
> a dummy load, perfect SWR but lousy radiator.
>
> The tuner or matching network as it is properly known, is designed to
> efficently transfer power to the antenna or in other words couple the
> transmitter to the radiator. Think of like the transmission in your car.
> While it is possible to connect the engine directly to the wheels it would
> not be the most efficient or effective way to tranfer the power from the
> engine to the drive wheels.
>
> When tuning short antennas on frequencies like 80m or 160m it is possible
> that you could be converting much of the RF energy into heat energy.
>
> When all possible cut a resonant antenna for the band that you wish to
> operate. Suprisingly this will yield more contacts and eliminate a lot of
> RFI issues that we read about on these reflectors.
>
> 73,

> Norm, W3IZ
> www.w3iz.com
> ----- Original Message ----- >
> > I now have their EAT1000A which will match a damp string easily from
> > 160 to 6m... it will tune my G5RV on 6 and able to work DX. Not sure if
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> ---
> Yahoo! Mail
> Bring photos to life! New PhotoMail makes sharing a breeze.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6849. Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-03 18:00:13 UTC
From: Roberto Baca Barnard
Topic: 6823 Message: 6849

The 100 watt lightbulb shines brightly as predicted by Walt.
Has to be the MFJ 'TUNER'. I'm learning...slowly.

tnx much
73
Rob WB7AVF/2

6850. ts830s mike wireing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-03 21:09:20 UTC
From: snag790
Topic: 6850 Message: 6850

would someone please give me the color code to the 4 pin conector from
mc-50 mike as it plugs into rig PLEASE
THANKS enjoy the posts to this group
snag790
ki4hgd

6851. Re: [TS-520_820_530_830] ts830s mike wireing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 00:16:25 UTC
From: Walt Breining
Topic: 6850 Message: 6851

For the TS 830.

Pin 1 Yellow audio wire surrounded by the shield.
Pin 2 Vilot wire for PTT
Pin 3 Red Wire PTT Ground
Pin 4 Shield wire.

Be sure that the shield wire does not touch the shell of the plug. I surround it with tubing If it touches the shell, even though it is ground, it will create a ground loop and RF problems will occur.

The entire service manual with complete diagrams can be downloaded from the KenwoodMics Yahoo forum. This is an extremely low traffic forum. It is associated with this forum. Everybody on this forum should join KenwoodMics.

Vy 73, Walt N9WB

----- Original Message -----
From: "snag790" <snag790@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 03, 2006 4:09 PM
Subject: [TS-520_820_530_830] ts830s mike wireing

> would someone please give me the color code to the 4 pin conector from
> mc-50 mike as it plugs into rig PLEASE
> THANKS enjoy the posts to this group
> snag790
> ki4hgd
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6852. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 00:58:05 UTC
From: Steve Porter
Topic: 6804 Message: 6852

Thanks for that Frank. Unfortunately, like Pacific Parts they don't ship to Australia. I might put an ad in VK Classifieds and see what I can find.

Steve P.

--- In TS-520_820_530_830@yahoogroups.com, "Frank Lambert" <wb4ouf@...> wrote:
>
> Hi,
> Check here. They are showing it available...GL es 73's
> Frank WB4OUF
> http://www.partstore.com/PartNumberSearchResults.aspx?PartNumber=E05-
> 0901-05
>
> --- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@> wrote:
> >
> > hi,
> >
> > I also checked pacparts.com on the west coast,
> > the part is also out of stock.
> >
> > Looks like the supply has dried up !
> >
> > 73 james ke4drn
> >
>

6853. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 01:37:39 UTC
From: Frank Lambert
Topic: 6804 Message: 6853

Do you want me to order them for you and I can send "Down Under"?
The bad part is double postage but, at least you could get them.....
Frank WB4OUF
--- In TS-520_820_530_830@yahoogroups.com, "Steve Porter"
<sm.porter@...> wrote:
>
> Thanks for that Frank. Unfortunately, like Pacific Parts they don't
> ship to Australia. I might put an ad in VK Classifieds and see what
I
> can find.
>
> Steve P.
>
> --- In TS-520_820_530_830@...m, "Frank Lambert"
> <wb4ouf@> wrote:
> >
> > Hi,
> > Check here. They are showing it available...GL es 73's
> > Frank WB4OUF
> > http://www.partstore.com/PartNumberSearchResults.aspx?
> PartNumber=E05-
> > 0901-05
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> > <james27613@> wrote:
> > >
> > > hi,
> > >
> > > I also checked pacparts.com on the west coast,
> > > the part is also out of stock.
> > >
> > > Looks like the supply has dried up !
> > >
> > > 73 james ke4drn
> > >
> > >
> >
>

6854. Re: Cable for the vfo820 & TS-820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 03:41:37 UTC
From: Steve Porter
Topic: 6804 Message: 6854

That's a really kind offer Frank. I'm not sure what would be the best
way to pay you for them though.

Steve P.

--- In TS-520_820_530_830@yahoogroups.com, "Frank Lambert"
<wb4ouf@...> wrote:
>
> Do you want me to order them for you and I can send "Down Under"?
> The bad part is double postage but, at least you could get them.....
> Frank WB4OUF
> --- In TS-520_820_530_830@yahoogroups.com, "Steve Porter"
> <sm.porter@> wrote:
> >
> > Thanks for that Frank. Unfortunately, like Pacific Parts they
don't
> > ship to Australia. I might put an ad in VK Classifieds and see
what
> I
> > can find.
> >
> > Steve P.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Frank Lambert"
> > <wb4ouf@> wrote:
> > >
> > > Hi,
> > > Check here. They are showing it available...GL es 73's
> > > Frank WB4OUF
> > > http://www.partstore.com/PartNumberSearchResults.aspx?
> > PartNumber=E05-
> > > 0901-05
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "james27613"
> > > <james27613@> wrote:
> > > >
> > > > hi,
> > > >
> > > > I also checked pacparts.com on the west coast,
> > > > the part is also out of stock.
> > > >
> > > > Looks like the supply has dried up !
> > > >
> > > > 73 james ke4drn
> > > >

> > >
> >
>

6855. SB-200 Softkey instructions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 05:37:04 UTC
From: Bill Richarz
Topic: 6855 Message: 6855

Anyone have the instructions for installing the
softkey Harbach mod to the SB-200. I have the kit but
the guy I got it from did not have the instructions.
Tried to get it from Harbach page but I get an error
message each time I bring it up. Need to key the
SB-200 with my TS-820.

tnx, de Bill, N4DH

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6856. Re: [TS-520_820_530_830] ts830s mike wireing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 12:47:34 UTC
From: warren gill
Topic: 6850 Message: 6856

walt i sure do thank you for the info,on the plug wireing,and also for the link
thanks alot
warren gill<snag790@...

Walt Breining <n9wb@...> wrote:
For the TS 830.

Pin 1 Yellow audio wire surrounded by the shield.
Pin 2 Vilot wire for PTT
Pin 3 Red Wire PTT Ground
Pin 4 Shield wire.

>
>
>
>
>
>

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Yahoo! Mail
Use Photomail to share photos without annoying attachments.

[Non-text portions of this message have been removed]

6857. Re: [TS-520_820_530_830] SB-200 Softkey instructions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 13:18:13 UTC
From: Rod Goff
Topic: 6855 Message: 6857

Hi Bill
I will send the 2 pages to your email address in QRZ
Have fun
Rod wb3fch in WV

----- Original Message -----
From: "Bill Richarz" <billn4dh@...>
To: <ts-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 04, 2006 12:37 AM
Subject: [TS-520_820_530_830] SB-200 Softkey instructions

> Anyone have the instructions for installing the
> softkey Harbach mod to the SB-200. I have the kit but
> the guy I got it from did not have the instructions.
> Tried to get it from Harbach page but I get an error
> message each time I bring it up. Need to key the
> SB-200 with my TS-820.
>
> tnx, de Bill, N4DH
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6858. TS820 Alignment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 15:40:08 UTC
From: dlwstereo
Topic: 6858 Message: 6858

The TS820 Service manual Receiver alignment procedure state the SSG used be capable of 0DBuV to 120DBuV. Can someone in the group tell me what microvolt level they are using as 0DBuV @50 Ohm reference ? I have some receivers that specify 0DBuV is .5uV @50 Ohm and others specify 0DBuV equals 1uV @50 Ohms.

D.Windle

6859. Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 18:24:17 UTC
From: Roberto Baca Barnard
Topic: 6823 Message: 6859

Back on the air at 100w plus. Replaced two germanium diodes and a 150 ohm R in the MFJ tuner and that be that. Tnx for the help Walt and Ron.

73 RBB

6860. TS-830s distorted TX and distorted sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-04 21:15:51 UTC
From: pgweber
Topic: 6860 Message: 6860

Hi all,

In CW mode, my TS-830s has developed a nasty distorted rasp in the sidetone audio, and when monitored on another radio, the TX output is also distorted. It's not hum, it sounds like there are higher frequency components. When it first appeared, turning down the carrier control helped, but now it's all the time.

I'm new at troubleshooting (at least to this level!), and I've changed the DC filter caps on the audio board, and checked the sidetone circuit, which looks OK. The HV caps measure a little over 100 µf. All the diodes on the rectifier board check OK. I've substituted new driver and final tubes with no change. I can see a distorted sine wave on the STB line when I key the TX.

Next I think I'll look at the signal at the grid of the driver tube.

Any ideas would be greatly appreciated!

Thanks,
Pete
KE5CTT

6861. Re: Thank you for your comments on the somewhat deformed back on my new 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-05 03:44:54 UTC
From: pchapman9202003
Topic: 6839 Message: 6861

I have one car that looks great on the outside, but has been a total lemon on the inside, and has cost an arm and leg to keep it on the road, and....I got it free...with only 35,000 miles on it....It turned out to be a very bad deal. It is parked and sucks with only 50,000 miles. I have replaced the transmission, fuel pump, power steering pump, radiator, power steering fluid feed tubes. This car is a total piece of crap. Oh yeah the A/C compressor is dead too. This is the last American car I will ever own.

Before I get bashed, let me point out that the U.S. still manufactures some darn good ham gear.

I have another car that does not look too great on the outside, but has been almost zero money to maintain. It now has over 100,000 miles on it. It is a converted company to private car and ugly, but nearly 30 miles per gallon and takes me to work every day. Just did the second brake job on it, and was able to shave the original rotors for the second time. It still has original brake shoes with about 20 K left to go on the rear.

Moral of the story....Looks are not everything...I will be glad to take a ding or two for a rig that works well over a pretty one that is a P.I.T.A. and a money pit.

My suggestion before you are not able to get money back is to find a ham close to your geography that knows the 830 and have him or she come over to play with it and give you an opinion. The fact that you were able to buy it with any money back warranty at all with the slimy dealers that are selling ham gear out there lends credibility to the seller.

The 830 has a great reputation and is still considered a sought after piece of gear way past the end of its production. I have a TS 820 and the reciever section is a little better than my 2 year old Icom.

Just remember that a bad tune up process will do more damage to your finals that multiple years of ragchewing.

--- In TS-520_820_530_830@yahoogroups.com, "jamaxton" <jamaxton@...> wrote:
>
> Hi group and folks who answered my question,
>
> I thank you greatly for your helpful comments about my

rig. I just went
> and looked at the back again with even a magnifier. The fan
housing looks
> mint and doesnt appear to have taken the load that would be needed
to
> deflect the metal back under it and the coax connector about 1/8
inch inward.
> Also, the coax connector is very solid with no play . I now would
have to think
> that an impact load newly done would have left it a bit wiggily.
I can only
> hope that the seller / repairman had inspected it as he told me
before I bought
> it that he went over it completely and alligned, lubed and checked
all
> functions on all modes. He also said the tubes were right up
there and the set
> looked like it had low time. Perhaps he fixed it if it was
wiggely or loose. Also
> the box came in to me from fedex in a very good shape. He has
given me
> time to check it out and send it back for repair or refund if I
feel its needed. I
> truly love the rig and it suits me just fine. I dont really want
to spend another
> 800 dollars to get one of thse menu driven complex new radios.
Thanks
> again. This is a great group and I am very happy to be a member
of it.
> sincerely,
Tom kb1mak
>

6862. Re: [TS-520_820_530_830] Re: Thank you for your comments on the somewhat deformed back on my new 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-05 04:49:19 UTC
From: Charles Mortimer
Topic: 6839 Message: 6862

hi
I have an 820 which had a ding in the same place
fan housing knocked in slightly and the coax conector knocked slightly
my point is the metal used for these back plates is substantial
but very soft what I suggest is to some remove the fan housing and coax
socket and a little pressure in the Wright place one should be able to
straighten the rear plate it involves a bit of work ...can be don easily
mostly these dings are done in postage and inadequate wrapping
and to smaller box a radio should have 2.1/2 inches clearance all around
minimum radio should be wrapped in four sheets of bubble wrap and in
the bottom of the box that it will travel in place a layer of 2"" of Polly
foam beads and also remove the feet
then place the radio in the box taking particular care of the front
(don't want to drive that vfo knob back into the radio) thetas another
story..... fill the box with the rest of the beads and push in tightly
and seal the box then shake the box should be a very slight movement of
the radio inside next job is to double box it a box from a supermarket
(THEY HAVE PLENTY) cut to size of original box and place around the radio
carton tape up address and post

the postal people work with wire cages and fork lifts a lot of these
packages get tipped into the containers from a height which we would
cringe at very little hands on work these days and they do not have a care
how they handle your parcel the best compliment that you can receive from
the recipient is when he moans about how long it took him to open the box
and a mess all over the radio room floor
would you have a mess over the floor or a broken radio I know what causes
the least grief
a voice of experience who has seen some sorry packing and a dozen story's
to tell vk6ycj
----- Original Message -----
From: "pchapman9202003" <p_chap@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 05, 2006 11:44 AM
Subject: [TS-520_820_530_830] Re: Thank you for your comments on the
somewhat deformed back on my new 830s

>I have one car that looks great on the outside, but has been a total
> lemon on the inside, and has cost an arm and leg to keep it on the
> road, and....I got it free...with only 35,000 miles on it....It
> turned out to be a very bad deal. It is parked and sucks with only
> 50,000 miles. I have replaced the transmission, fuel pump, power
> steering pump, radiator, power steering fluid feed tubes. This car
> is a total piece of crap. Oh yeah the A/C compressor is dead too.

> This is the last American car I will ever own.
>
> Before I get bashed, let me point out that the U.S. still
> manufactures some darn good ham gear.
>
> I have another car that does not look too great on the outside, but
> has been almost zero money to maintain. It now has over 100,000
> miles on it. It is a converted company to private car and ugly, but
> nearly 30 miles per gallon and takes me to work every day. Just did
> the second brake job on it, and was able to shave the original
> rotors for the second time. It still has original brake shoes with
> about 20 K left to go on the rear.
>
> Moral of the story....Looks are not everything...I will be glad to
> take a ding or two for a rig that works well over a pretty one that
> is a P.I.T.A. and a money pit.
>
> My suggestion before you are not able to get money back is to find a
> ham close to your geography that knows the 830 and have him or she
> come over to play with it and give you an opinion. The fact that you
> were able to buy it with any money back warranty at all with the
> slimy dealers that are selling ham gear out there lends credibility
> to the seller.
>
> The 830 has a great reputation and is still considered a sought
> after piece of gear way past the end of its production. I have a TS
> 820 and the reciever section is a little better than my 2 year old
> Icom.
>
> Just remember that a bad tune up process will do more damage to your
> finals that multiple years of ragchewing.
>
> --- In TS-520_820_530_830@yahoogroups.com, "jamaxton" <jamaxton@...>
> wrote:
>>
>> Hi group and folks who answered my question,
>>
>> I thank you greatly for your helpful comments about my
> rig. I just went
>> and looked at the back again with even a magnifier. The fan
> housing looks
>> mint and doesnt appear to have taken the load that would be needed
> to
>> deflect the metal back under it and the coax connector about 1/8
> inch inward.
>> Also, the coax connector is very solid with no play . I now would
> have to think
>> that an impact load newly done would have left it a bit wiggily.
> I can only
>> hope that the seller / repairman had inspected it as he told me

> before I bought
>> it that he went over it completely and alligned, lubed and checked
> all
>> functions on all modes. He also said the tubes were right up
> there and the set
>> looked like it had low time. Perhaps he fixed it if it was
> wiggely or loose. Also
>> the box came in to me from fedex in a very good shape. He has
> given me
>> time to check it out and send it back for repair or refund if I
> feel its needed. I
>> truly love the rig and it suits me just fine. I dont really want
> to spend another
>> 800 dollars to get one of thse menu driven complex new radios.
> Thanks
>> again. This is a great group and I am very happy to be a member
> of it.
>> sincerely,
> Tom kb1mak
>>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

6863. Re: [TS-520_820_530_830] TS-830s distorted TX and distorted sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-05 12:08:11 UTC
From: Walt Breining
Topic: 6860 Message: 6863

Are you using a dummy load for these tests?
N9WB
----- Original Message -----
From: "pgweber" <pgweber@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 04, 2006 4:15 PM
Subject: [TS-520_820_530_830] TS-830s distorted TX and distorted sidetone

> Hi all,
>
> In CW mode, my TS-830s has developed a nasty distorted rasp in the
> sidetone audio, and when monitored on another radio, the TX output
> is also distorted. It's not hum, it sounds like there are higher
> frequency components. When it first appeared, turning down the
> carrier control helped, but now it's all the time.
>
> I'm new at troubleshooting (at least to this level!), and I've
> changed the DC filter caps on the audio board, and checked the
> sidetone circuit, which looks OK. The HV caps measure a little over
> 100 ?f. All the diodes on the rectifier board check OK. I've
> substituted new driver and final tubes with no change. I can see a
> distorted sine wave on the STB line when I key the TX.
>
> Next I think I'll look at the signal at the grid of the driver tube.
>
> Any ideas would be greatly appreciated!
>
> Thanks,
> Pete
> KE5CTT
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

>

6864. Re: [TS-520_820_530_830] Re: Thank you for your comments on the somewhat deformed back on my new 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-05 13:01:58 UTC
From: Walt Breining
Topic: 6839 Message: 6864

You may be able to place a sleeve from a PL-259 on the SO-239. Using a pair of channel locks carefully pull the dent out. Then check for any broken ground connections and tighten up any screws in the area.

Rigs getting bent by the antenna connector that sticks out is quite common. I have UN-bent them this way many times. If it seems to work OK, and the price was right, I'm not sure that I would sweat this dent.

Vy 73, Walt N9WB

----- Original Message -----
From: "pchapman9202003" <p_chap@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 04, 2006 10:44 PM
Subject: [TS-520_820_530_830] Re: Thank you for your comments on the somewhat deformed back on my new 830s

> I have one car that looks great on the outside, but has been a total
> lemon on the inside, and has cost an arm and leg to keep it on the
> road, and....I got it free...with only 35,000 miles on it....It
> turned out to be a very bad deal. It is parked and sucks with only
> 50,000 miles. I have replaced the transmission, fuel pump, power
> steering pump, radiator, power steering fluid feed tubes. This car
> is a total piece of crap. Oh yeah the A/C compressor is dead too.
> This is the last American car I will ever own.
>
> Before I get bashed, let me point out that the U.S. still
> manufactures some darn good ham gear.
>
> I have another car that does not look too great on the outside, but
> has been almost zero money to maintain. It now has over 100,000
> miles on it. It is a converted company to private car and ugly, but
> nearly 30 miles per gallon and takes me to work every day. Just did
> the second brake job on it, and was able to shave the original
> rotors for the second time. It still has original brake shoes with
> about 20 K left to go on the rear.
>
> Moral of the story....Looks are not everything...I will be glad to
> take a ding or two for a rig that works well over a pretty one that
> is a P.I.T.A. and a money pit.
>
> My suggestion before you are not able to get money back is to find a
> ham close to your geography that knows the 830 and have him or she
> come over to play with it and give you an opinion. The fact that you
> were able to buy it with any money back warranty at all with the

> slimy dealers that are selling ham gear out there lends credibility
> to the seller.
>
> The 830 has a great reputation and is still considered a sought
> after piece of gear way past the end of its production. I have a TS
> 820 and the reciever section is a little better than my 2 year old
> Icom.
>
> Just remember that a bad tune up process will do more damage to your
> finals that multiple years of ragchewing.
>
> --- In TS-520_820_530_830@yahoogroups.com, "jamaxton" <jamaxton@...>
> wrote:
> >
> > Hi group and folks who answered my question,
> >
> > I thank you greatly for your helpful comments about my
> rig. I just went
> > and looked at the back again with even a magnifier. The fan
> housing looks
> > mint and doesnt appear to have taken the load that would be needed
> to
> > deflect the metal back under it and the coax connector about 1/8
> inch inward.
> > Also, the coax connector is very solid with no play . I now would
> have to think
> > that an impact load newly done would have left it a bit wiggily.
> I can only
> > hope that the seller / repairman had inspected it as he told me
> before I bought
> > it that he went over it completely and alligned, lubed and checked
> all
> > functions on all modes. He also said the tubes were right up
> there and the set
> > looked like it had low time. Perhaps he fixed it if it was
> wiggely or loose. Also
> > the box came in to me from fedex in a very good shape. He has
> given me
> > time to check it out and send it back for repair or refund if I
> feel its needed. I
> > truly love the rig and it suits me just fine. I dont really want
> to spend another
> > 800 dollars to get one of thse menu driven complex new radios.
> Thanks
> > again. This is a great group and I am very happy to be a member
> of it.
> > sincerely,
> Tom kb1mak
> >
>

>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6865. Re: TS-830s distorted TX and distorted sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-05 17:05:42 UTC
From: pgweber
Topic: 6860 Message: 6865

I'm using a 300 watt dummy load for troubleshooting. The problem
also exists when transmitting into an antenna (center fed Zepp,
balanced feed line, and a tuner).

Thanks!
Pete

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@...> wrote:
>
> Are you using a dummy load for these tests?
> N9WB
> ----- Original Message -----
> From: "pgweber" <pgweber@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, March 04, 2006 4:15 PM
> Subject: [TS-520_820_530_830] TS-830s distorted TX and distorted
sidetone
>
>
> > Hi all,
> >
> > In CW mode, my TS-830s has developed a nasty distorted rasp in
the
> > sidetone audio, and when monitored on another radio, the TX
output
> > is also distorted. It's not hum, it sounds like there are higher
> > frequency components. When it first appeared, turning down the
> > carrier control helped, but now it's all the time.
> >
> > I'm new at troubleshooting (at least to this level!), and I've
> > changed the DC filter caps on the audio board, and checked the
> > sidetone circuit, which looks OK. The HV caps measure a little
over
> > 100 µf. All the diodes on the rectifier board check OK. I've
> > substituted new driver and final tubes with no change. I can
see a
> > distorted sine wave on the STB line when I key the TX.
> >
> > Next I think I'll look at the signal at the grid of the driver
tube.
> >
> > Any ideas would be greatly appreciated!
> >
> > Thanks,

> > Pete
> > KE5CTT
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

6866. intermittant TS-820 meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-05 20:07:15 UTC
From: nigel4416
Topic: 6866 Message: 6866

Hi All
I posted some days ago about a problem with a meter fault on my TS-820. Thank you for the responses. I also received an e-mail from Bill Hall KZ5CW but got a failure notice when I replied to his e-mail. This fault is still driving me nuts. I have had it on and off for the past two years and have cured it, in the past, by using my YL's hairdryer as I think the rig gets damp. I read somewhere on the internet that the IF board is prone to faults if it gets damp! But this time the hairdryer has not worked
Some time ago I noticed that the rigs meter on receive started dancing around with no incoming signals. I then noticed that the meter was not responding when I was peaking the drive on tune up (meter switch to ALC). If I turn the RF gain control fully anticlockwise the meter should move to end scale (full deflection), sometimes it does this but more often than not it reaches half scale and dances around. The meter works fine when monitoring I/P current RF output and HV when transmitting but dances around when monitoring ALC when transmitting.

On looking at the circuit the ALC and receive path goes through RL-3 before going to pins 14 & 15 (SM on IF-3) on the IF board. Working back - the signal comes in to the IF board from pin 6 (AGL on IF-3) going through Q4 and Q5. The AGL path comes from RL-14 on the relay unit and then back to pin 7 (AGC on RF-1) on the RF unit and pin 11 (AGC on IF-3) on the IF board.

I have cleaned all the pins on the IF board, I have cleaned the pins and contacts on both relays RL-3 and RL-14 and I have continuity checked the above signal paths. I can't see any dry joints on the IF board and cant see anything loose. I have made sure that the screws on the IF, RF and relay boards are tight and I can't seem to make the fault better or worse by tapping any of the wire looms or boards. My next step is to borrow a decent oscilloscope and try and trace it through that way. I am still convinced that the fault is on the IF board. If you can offer me any assistance I would be most grateful.

Thanking You
73 Nigel

6867. What is the "gold edition" TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 05:11:53 UTC
From: ke9zm
Topic: 6867 Message: 6867

Was wondering what is the "Gold Edition" of the TS-830S? I did a bit of
research on the internet and it seems that the only difference is that
there is a gold label under the tuning dial. Other than that, no
difference. Plus, someone posted elsewhere that there are more gold
editions than non-gold.

I searched this news group and found this.

==========
Okay, I have just enough information to be dangerous here...I know that
later 830's had an updated MuRata filter K-12 installed in place of the
earlier K-5 filter...I have confirmed that mine is a later production
model,
a so-called "gold edition" as it is commonly referred to, with the K-12
filter...I don't know if this is a meaninful factor related to the
signal
path and its dynamics as described by Walt in his 820.
==========

Any more info on the "gold edition"?

Thanks
Gary / ke9zm

6868. Re: [TS-520_820_530_830] TS820 Alignment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 08:21:53 UTC
From: Richard Harris
Topic: 6858 Message: 6868

The confusion may be whether the 0dBuV (1uV) is measured at the antenna terminals of the receiver or whether it is the source voltage of the signal generator. Signal generators have a defined output resistance e.g. 50 ohms, which is in series with the source voltage. When correctly matched with 50 ohms, then the terminal voltage is half the source voltage. So an internal signal generator voltage of 0dBuV (1uV) will be 0.5uV at the terminals when terminated in 50 ohms.

Richard G3OTK

At 15:40 04/03/2006 +0000, you wrote:
>The TS820 Service manual Receiver alignment procedure state the SSG
>used be capable of 0DBuV to 120DBuV. Can someone in the group tell me
>what microvolt level they are using as 0DBuV @50 Ohm reference ? I
>have some receivers that specify 0DBuV is .5uV @50 Ohm and others
>specify 0DBuV equals 1uV @50 Ohms.
>
>D.Windle
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com

>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6869. Re: [TS-520_820_530_830] What is the "gold edition" TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 12:18:51 UTC
From: w3iz
Topic: 6867 Message: 6869

Just marketing.

If you want one, I know where there's a platinum edition.
73,
Norm, W3IZ
www.w3iz.com

6870. Re: [TS-520_820_530_830] TS820 Alignment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 16:47:48 UTC
From: Dennis Windle
Topic: 6858 Message: 6870

Isn't the loss across the 50 Ohms usually already considered on the signal generator Output Level control ? ie: when for example it is marked off as XDBM @ 50 Ohm, X is what is seen after the series 50 Ohms and at the receiver ? Or the SG Output Level control may be marked off in volts @ 50 Ohms (uV,Mv and V), hasn't that also considered the loss across the 50 ohms and the setting should reflect what would actually be seen at the receiver ?

D.Windle
----- Original Message -----
From: Richard Harris
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 06, 2006 3:21 AM
Subject: Re: [TS-520_820_530_830] TS820 Alignment

The confusion may be whether the 0dBuV (1uV) is measured at the antenna terminals of the receiver or whether it is the source voltage of the signal generator. Signal generators have a defined output resistance e.g. 50 ohms, which is in series with the source voltage. When correctly matched with 50 ohms, then the terminal voltage is half the source voltage. So an internal signal generator voltage of 0dBuV (1uV) will be 0.5uV at the terminals when terminated in 50 ohms.

Richard G3OTK

At 15:40 04/03/2006 +0000, you wrote:
>The TS820 Service manual Receiver alignment procedure state the SSG
>used be capable of 0DBuV to 120DBuV. Can someone in the group tell me
>what microvolt level they are using as 0DBuV @50 Ohm reference ? I
>have some receivers that specify 0DBuV is .5uV @50 Ohm and others
>specify 0DBuV equals 1uV @50 Ohms.
>
>D.Windle
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply

>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6871. Re: [TS-520_820_530_830] TS820 Alignment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 17:27:43 UTC
From: Richard Harris
Topic: 6858 Message: 6871

I believe that both notations may be used, but that it isn't always clear which one! I have no doubt that professional signal generators will be very clear on this point and I expect that it will be the source voltage within the SG that is specified, together with the source impedance. Perhaps others in the group can comment.

I suppose one problem is when the input to the receiver is not actually 50 ohms resistive, which may apply to most rigs. In this situation it is better to specify the source voltage within the SG.. This is then closer to real-life, where the signal applied to the receiver is from an ATU that has transformed the antenna into an equivalent series resistance of 50 ohms (a result of having set the reflected power to zero on transmit).

Richard

At 11:47 06/03/2006 -0500, you wrote:
>Isn't the loss across the 50 Ohms usually already considered on the signal
>generator Output Level control ? ie: when for example it is marked off as
>XDBM @ 50 Ohm, X is what is seen after the series 50 Ohms and at the
>receiver ? Or the SG Output Level control may be marked off in volts @ 50
>Ohms (uV,Mv and V), hasn't that also considered the loss across the 50
>ohms and the setting should reflect what would actually be seen at the
>receiver ?
>
>D.Windle
> ----- Original Message -----
> From: Richard Harris
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, March 06, 2006 3:21 AM
> Subject: Re: [TS-520_820_530_830] TS820 Alignment
>
>
> The confusion may be whether the 0dBuV (1uV) is measured at the antenna
> terminals of the receiver or whether it is the source voltage of the
> signal
> generator. Signal generators have a defined output resistance e.g. 50
> ohms, which is in series with the source voltage. When correctly matched
> with 50 ohms, then the terminal voltage is half the source voltage. So an
> internal signal generator voltage of 0dBuV (1uV) will be 0.5uV at the
> terminals when terminated in 50 ohms.
>
> Richard G3OTK
>
>
>
> At 15:40 04/03/2006 +0000, you wrote:

> >The TS820 Service manual Receiver alignment procedure state the SSG
> >used be capable of 0DBuV to 120DBuV. Can someone in the group tell me
> >what microvolt level they are using as 0DBuV @50 Ohm reference ? I
> >have some receivers that specify 0DBuV is .5uV @50 Ohm and others
> >specify 0DBuV equals 1uV @50 Ohms.
> >
> >D.Windle
> >
> >
> >
> >
> >
> >SPONSORED LINKS
>
> ><<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>
> >radio
>
> ><<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>
> >hobby
>
> ><<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>
> >and craft supply
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> >
> "<<http://groups.yahoo.com/group/TS-520_820_530_830>http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830"
> on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> >
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com

>
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> >
> <<http://docs.yahoo.com/info/terms/>http://docs.yahoo.com/info/terms/>Yahoo!
> Terms of Service.
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>
> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267
> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>
> Web site www.pipstechnology.com
>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain information
> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation to whom
> it is addressed. If you are not the intended recipient it is strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>
>
>
>--
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:

> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
>---
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information

that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6872. Re: [TS-520_820_530_830] What is the "gold edition" TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 18:25:40 UTC
From: Brent W. Baum
Topic: 6867 Message: 6872

Is that the one with the silver lettering? If so I have a TS-520 SE platinum. :)

Brent W. Baum
Assistant Director - PWI

Career Services & Student Employment
Utah Valley State College
800 West University Parkway
Orem, UT 84058-5999
(801) 863-8711
(801) 863-8051 fax
baumbr@...

>>> w3iz@... 3/6/2006 5:18:51 AM >>>

Just marketing.

If you want one, I know where there's a platinum edition.
73,
Norm, W3IZ
www.w3iz.com

Yahoo! Groups Links

[Non-text portions of this message have been removed]

6873. Re: [TS-520_820_530_830] TS820 Alignment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-06 19:34:31 UTC
From: Dennis Windle
Topic: 6858 Message: 6873

If the SG output level notations are for source voltage, then for example in setting the S-Meter for an S-9 reading the manual states "set the SG output to 40DBuV and adjust VR2 on IF board for an S-9 reading" if the SG setting is source voltage then the receiver is actually seeing 1/2 the source voltage for that S-9 adjustment ? At the SG If the source 0DBuV is referenced to 1uV into 50 Ohms, then 40DBuV = 100uV and with a 50% loss across 50 Ohms the receiver would see 50uV = 34DBuV. Question is whether the receiver adjustments are already considering the loss across the 50 ohms when they specify a DBuV setting of the SSG output for the adjustment or does one have to compensate for the loss and provide say the full DBuV amount to the receiver specified for the adjustment ??

D.Windle

----- Original Message -----
From: Richard Harris
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 06, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] TS820 Alignment

I believe that both notations may be used, but that it isn't always clear which one! I have no doubt that professional signal generators will be very clear on this point and I expect that it will be the source voltage within the SG that is specified, together with the source impedance. Perhaps others in the group can comment.

I suppose one problem is when the input to the receiver is not actually 50 ohms resistive, which may apply to most rigs. In this situation it is better to specify the source voltage within the SG.. This is then closer to real-life, where the signal applied to the receiver is from an ATU that has transformed the antenna into an equivalent series resistance of 50 ohms (a result of having set the reflected power to zero on transmit).

Richard

At 11:47 06/03/2006 -0500, you wrote:
>Isn't the loss across the 50 Ohms usually already considered on the signal
>generator Output Level control ? ie: when for example it is marked off as
>XDBM @ 50 Ohm, X is what is seen after the series 50 Ohms and at the
>receiver ? Or the SG Output Level control may be marked off in volts @ 50
>Ohms (uV,Mv and V), hasn't that also considered the loss across the 50
>ohms and the setting should reflect what would actually be seen at the
>receiver ?
>
>D.Windle
> ----- Original Message -----
> From: Richard Harris
> To: TS-520_820_530_830@yahoogroups.com

> Sent: Monday, March 06, 2006 3:21 AM
> Subject: Re: [TS-520_820_530_830] TS820 Alignment
>
>
> The confusion may be whether the 0dBuV (1uV) is measured at the antenna
> terminals of the receiver or whether it is the source voltage of the
> signal
> generator. Signal generators have a defined output resistance e.g. 50
> ohms, which is in series with the source voltage. When correctly matched
> with 50 ohms, then the terminal voltage is half the source voltage. So an
> internal signal generator voltage of 0dBuV (1uV) will be 0.5uV at the
> terminals when terminated in 50 ohms.
>
> Richard G3OTK
>
>
>
> At 15:40 04/03/2006 +0000, you wrote:
> >The TS820 Service manual Receiver alignment procedure state the SSG
> >used be capable of 0DBuV to 120DBuV. Can someone in the group tell me
> >what microvolt level they are using as 0DBuV @50 Ohm reference ? I
> >have some receivers that specify 0DBuV is .5uV @50 Ohm and others
> >specify 0DBuV equals 1uV @50 Ohms.
> >
> >D.Windle
> >
> >
> >
> >
> >
> >SPONSORED LINKS
>
> ><<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>
> >radio
>
> ><<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>
> >hobby
>
> ><<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby

>
> >and craft supply
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> >
> "<<http://groups.yahoo.com/group/TS-520_820_530_830>http://groups.yahoo.com/group/TS-520
_820_530_830>TS-520_820_530_830"
> on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> >
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> >
> <<http://docs.yahoo.com/info/terms/>http://docs.yahoo.com/info/terms/>Yahoo!
> Terms of Service.
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>
> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267
> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>
> Web site www.pipstechnology.com
>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain information

> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation to whom
> it is addressed. If you are not the intended recipient it is strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>
>
>
>--
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
>--
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6874. TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 06:58:09 UTC
From: A. Newell
Topic: 6874 Message: 6874

my 530sp had been a little interminant during tune up, (flaky meter deflection w/drive, like something was loose)i was in qso, and radio had been on for an hour or more, when i lost tx in the middle of a transmission. the rx also dropped from abt 20+ to s7. i smelled a little burnt smell, and pulled the cover. the smell was comming up near the 12by7a. if i turned off the heater, i would get the rx back. i can't find anything burnt, and the driver was new. could it have a grid short? or what do ya'll think?

tnx,

"john" kn4nn

6875. Re: [TS-520_820_530_830] TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 09:58:58 UTC
From: Walt Breining
Topic: 6874 Message: 6875

Well, the first thing that I would do is to try to see where the smoke came from. I would then remove the 12BY7 turn the rig on without the filaments on and see if the receive is normal. If so, turn the filaments back on and see if the receive drops.

If the receive does drop, see if the lights dim and turn it off quickly. If it starts looking like there is a load on the power supply, you should place a light bulb in series with the AC mains before proceeding so as not to damage the transformer while troubleshooting. Be sure that you have the correct fuse installed!

On the other hand, if everything seems to work ok with the 12BY7 removed, you need to find where the magic smoke came from. Likely a choke coil or resistor on the RF board.

Things to check would be L-38 and L-39. R41, R37 and R35. My diagram is blurry so these numbers may be in error but I tried.

Also consider the possibility that a final may be shorted. If this is the case, look for fried components on the final and HV board, particularly the resistors associated with the final screen supply. If after removing the 12BY7, everything acts normal, key the rig on SSB with the 12BY7 removed and see if you still get 60 MA idle current, or close. If so you can probably look somewhere other than the final or HV board.

Although I mentioned the final board to be thorough, I think that you are on the right track, most likely the 12BY7 shorted and fried a coil or resistor near it in the process.

Hope this helps, let us know what you find or how you do.

Vy 73, Walt N9WB

----- Original Message -----
From: "A. Newell" <kn4nn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 07, 2006 1:58 AM
Subject: [TS-520_820_530_830] TS-530SP DIED!!

> my 530sp had been a little interminant during tune up, (flaky meter
> deflection w/drive, like something was loose)i was in qso, and radio
> had been on for an hour or more, when i lost tx in the middle of a
> transmission. the rx also dropped from abt 20+ to s7. i smelled a
> little burnt smell, and pulled the cover. the smell was comming up
> near the 12by7a. if i turned off the heater, i would get the rx back.
> i can't find anything burnt, and the driver was new. could it have a
> grid short? or what do ya'll think?

>
> tnx,
>
> "john" kn4nn
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6876. Re: [TS-520_820_530_830] TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 10:05:30 UTC
From: Walt Breining
Topic: 6874 Message: 6876

Maybe it is me that is fuzzy not my diagram.
The part numbers I gave you are to an 830 not a 530, but the other information is general enough to be the same. The parts I would look for that might be fried are a choke in the plate circuit, a choke in the cathode circuit, and resistors particularly below 1000 ohms associated with the screen or the cathode. Also anything in the control grid circuit.

I buy my glasses at the Dollar Store.

Vy 73, Walt N9WB

----- Original Message -----
From: "Walt Breining" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 07, 2006 4:58 AM
Subject: Re: [TS-520_820_530_830] TS-530SP DIED!!

> Well, the first thing that I would do is to try to see where the smoke
came
> from. I would then remove the 12BY7 turn the rig on without the filaments
on
> and see if the receive is normal. If so, turn the filaments back on and
see
> if the receive drops.
>
> If the receive does drop, see if the lights dim and turn it off quickly.
If
> it starts looking like there is a load on the power supply, you should
place
> a light bulb in series with the AC mains before proceeding so as not to
> damage the transformer while troubleshooting. Be sure that you have the
> correct fuse installed!
>
> On the other hand, if everything seems to work ok with the 12BY7 removed,
> you need to find where the magic smoke came from. Likely a choke coil or
> resistor on the RF board.
>
> Things to check would be L-38 and L-39. R41, R37 and R35. My diagram is
> blurry so these numbers may be in error but I tried.
>
> Also consider the possibility that a final may be shorted. If this is the
> case, look for fried components on the final and HV board, particularly
the
> resistors associated with the final screen supply. If after removing the
> 12BY7, everything acts normal, key the rig on SSB with the 12BY7 removed
and

> see if you still get 60 MA idle current, or close. If so you can probably
> look somewhere other than the final or HV board.
>
> Although I mentioned the final board to be thorough, I think that you are
on
> the right track, most likely the 12BY7 shorted and fried a coil or
resistor
> near it in the process.
>
> Hope this helps, let us know what you find or how you do.
>
>
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "A. Newell" <kn4nn@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, March 07, 2006 1:58 AM
> Subject: [TS-520_820_530_830] TS-530SP DIED!!
>
>
> > my 530sp had been a little interminant during tune up, (flaky meter
> > deflection w/drive, like something was loose)i was in qso, and radio
> > had been on for an hour or more, when i lost tx in the middle of a
> > transmission. the rx also dropped from abt 20+ to s7. i smelled a
> > little burnt smell, and pulled the cover. the smell was comming up
> > near the 12by7a. if i turned off the heater, i would get the rx back.
> > i can't find anything burnt, and the driver was new. could it have a
> > grid short? or what do ya'll think?
> >
> > tnx,
> >
> > "john" kn4nn

6877. Re: TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 21:55:14 UTC
From: A. Newell
Topic: 6874 Message: 6877

tnx walt,
i get the 60ma idle with the 12by7 out, and good rx.
i think part of it, was the 12by7. i put a known one in, and i can get
100w tx on 75m & 70w on 20m, but 35w on 40m & 20w on 10m. also no alc
meter deflection while tuning or talking. plate current is low 200ma
on 70m, hv is 900. the 12by7 that was in when it quit was very hot
compared to this one.

john
kn4nn

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Well, the first thing that I would do is to try to see where the
smoke came
> from. I would then remove the 12BY7 turn the rig on without the
filaments on
> and see if the receive is normal. If so, turn the filaments back on
and see
> if the receive drops.
>
> If the receive does drop, see if the lights dim and turn it off
quickly. If
> it starts looking like there is a load on the power supply, you
should place
> a light bulb in series with the AC mains before proceeding so as not to
> damage the transformer while troubleshooting. Be sure that you have the
> correct fuse installed!
>
> On the other hand, if everything seems to work ok with the 12BY7
removed,
> you need to find where the magic smoke came from. Likely a choke coil or
> resistor on the RF board.
>
> Things to check would be L-38 and L-39. R41, R37 and R35. My
diagram is
> blurry so these numbers may be in error but I tried.
>
> Also consider the possibility that a final may be shorted. If this
is the
> case, look for fried components on the final and HV board,
particularly the
> resistors associated with the final screen supply. If after
removing the

> 12BY7, everything acts normal, key the rig on SSB with the 12BY7
removed and
> see if you still get 60 MA idle current, or close. If so you can
probably
> look somewhere other than the final or HV board.
>
> Although I mentioned the final board to be thorough, I think that
you are on
> the right track, most likely the 12BY7 shorted and fried a coil or
resistor
> near it in the process.
>
> Hope this helps, let us know what you find or how you do.
>
>
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "A. Newell" <kn4nn@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, March 07, 2006 1:58 AM
> Subject: [TS-520_820_530_830] TS-530SP DIED!!
>
>
> > my 530sp had been a little interminant during tune up, (flaky meter
> > deflection w/drive, like something was loose)i was in qso, and radio
> > had been on for an hour or more, when i lost tx in the middle of a
> > transmission. the rx also dropped from abt 20+ to s7. i smelled a
> > little burnt smell, and pulled the cover. the smell was comming up
> > near the 12by7a. if i turned off the heater, i would get the rx back.
> > i can't find anything burnt, and the driver was new. could it have a
> > grid short? or what do ya'll think?
> >
> > tnx,
> >
> > "john" kn4nn
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >

> >
>

6878. Re: What is the "gold edition" TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 22:26:27 UTC
From: ke9zm
Topic: 6867 Message: 6878

> Just marketing.
> If you want one, I know where there's a platinum edition.
> Norm, W3IZ

Good for them. The good news is that the guy who spent $50K-$150K on an MBA has seen his ideas at work to create a preceived value out of nothing.
Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>
> Just marketing.
>
> If you want one, I know where there's a platinum edition.
> 73,
> Norm, W3IZ
> www.w3iz.com
>

6879. Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 22:33:24 UTC
From: jovem_cao
Topic: 6879 Message: 6879

Greetings everyone and thanks for having this wonderfull list :)

I am a proud owner of a Ts-520se but have seen a good looking TS-830s and decided to buy it.
It seems to work fine, but It seems to have some problems:

When doing the tunning procedings, when I switch the meter to RF and close the keym the meter goes crazy and hits its maximum (although it is throwing out about 125Watts metered on the antena tunner).

Comp meter seems to be dead, since I get no reading talking to the microphone, and while adjusting comp level :(

Monitor function (to listen to my voice while emiting) doesnt seem to work... I tryied this with several different mic gain and AF levels...

Finnaly, and this is just a question, my Ts-520SE puts out 150W.. this 830s puts only 125W... are these normal values, or should I start thinking of buying new valves for the 830?

Thank you in advance for all the possible help I can get. I am not afraid of opening the transceiver and trying to fix some stuff, but only If you can direct me on the right way since I am still a not very experienced ham operator with limited electronic knowledge :) (but willing to learn ofc)

73 de Sergio CT2IWG

6880. Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-07 23:44:30 UTC
From: jovem_cao
Topic: 6879 Message: 6880

> When doing the tunning procedings, when I switch the meter to RF and
> close the keym the meter goes crazy and hits its maximum (although
it
> is throwing out about 125Watts metered on the antena tunner).

Hmmm meanwhile i discovered I can adjust the Watt meter with that
little bolt on th back of the radio... ehehe
That problem is solved, but other doubts have arrised:

I only get decent ALC reading using a MC-50 with Mic gain on 8 or 9
position. I usually use it on 6 on my ts-520se. Is this normal? Can
this be related to no monitor sound?
I also didnt notice any difference with the processor on/off...

thanks once again,

73 from CT2IWG, Sergio

6881. Re: TS-830s distorted TX and distorted sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 02:22:55 UTC
From: pgweber
Topic: 6860 Message: 6881

The problem is fixed!

The previous owner had performed a QRO modification: On the rectifier board he had cut the trace that supplies 210a voltage to R13. He added a jumper to connect that circuit to 300B voltage. This caused R13 to eventually fail, causing the distortion on the STB line (STB is derived from 210a through a voltage divider consisting or R13 and R12).

Sidetone and TX output are clean once again.

By the way, this QRO mod increases the screen voltage to a level that causes premature failure of the final output tubes. I could actually hear arcing in the tubes on occasion.

Thanks to all,

Pete
KE5CTT

--- In TS-520_820_530_830@yahoogroups.com, "pgweber" <pgweber@...> wrote:
>
> I'm using a 300 watt dummy load for troubleshooting. The problem
> also exists when transmitting into an antenna (center fed Zepp,
> balanced feed line, and a tuner).
>
> Thanks!
> Pete
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@> wrote:
> >
> > Are you using a dummy load for these tests?
> > N9WB
> > ----- Original Message -----
> > From: "pgweber" <pgweber@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, March 04, 2006 4:15 PM
> > Subject: [TS-520_820_530_830] TS-830s distorted TX and distorted
> sidetone
> >
> >
> > > Hi all,
> > >
> > > In CW mode, my TS-830s has developed a nasty distorted rasp in

> the
> > > sidetone audio, and when monitored on another radio, the TX
> output
> > > is also distorted. It's not hum, it sounds like there are
higher
> > > frequency components. When it first appeared, turning down the
> > > carrier control helped, but now it's all the time.
> > >
> > > I'm new at troubleshooting (at least to this level!), and I've
> > > changed the DC filter caps on the audio board, and checked the
> > > sidetone circuit, which looks OK. The HV caps measure a
little
> over
> > > 100 µf. All the diodes on the rectifier board check OK. I've
> > > substituted new driver and final tubes with no change. I can
> see a
> > > distorted sine wave on the STB line when I key the TX.
> > >
> > > Next I think I'll look at the signal at the grid of the driver
> tube.
> > >
> > > Any ideas would be greatly appreciated!
> > >
> > > Thanks,
> > > Pete
> > > KE5CTT
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>

6882. Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 02:48:00 UTC
From: Joan de vk5kyo
Topic: 6874 Message: 6882

Hi John

I am not familiar with the 530, but I have recently repaired an 830,
which some people say are very similar. I stand corrected if not.
I have posted the 830 problem and solution in this group, but I will
give you a brief description if you missed it.
The 830 had good power up to 40m. Power slihtly reduced on 20m, nothing
on 17m, and very low output on higher bands.
No ALC on 17m, and very low ALC on bands above 17m.
A shorted choke/inductor feeding the 12BY7 and a leaky bypass capacitor
were replaced and the 830 is back on air.
I suspect that your 530 may have suffered the same. If the 12BY7 draws
excessive current, it will take the RF choke out.
The choke's value in the 830 was 470uH and measured about 4 Ohms. If the
530 has a similar value, then you can check for the same.
The faulty choke measured much less than 1 Ohm.
All the best

Joan VK5KYO

A. Newell wrote:

> tnx walt,
> i get the 60ma idle with the 12by7 out, and good rx.
> i think part of it, was the 12by7. i put a known one in, and i can get
> 100w tx on 75m & 70w on 20m, but 35w on 40m & 20w on 10m. also no alc
> meter deflection while tuning or talking. plate current is low 200ma
> on 70m, hv is 900. the 12by7 that was in when it quit was very hot
> compared to this one.
>
> john
> kn4nn

6883. Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 02:53:03 UTC
From: jovem_cao
Topic: 6879 Message: 6883

I dont mean to flood this mailing list, but since I have been exploring my 830 I have found some other flaws...

The NB doesnt seem to have any effect and I found that the switch seems to have only one side conected:

http://img455.imageshack.us/img455/7/dsc016153wv.jpg

and

http://img455.imageshack.us/img455/1777/dsc016160su.jpg

I wonder if the Moni switch is also like that one... I have to try to open the down side of the transceiver tommorow...

After I key down the microphone, receive goes down a lot, I have read that it should be from the RC/TX switch... need to clean that too... Any tips to locate it fast?

The guy that sold me this transceiver told me it had been Reviewed by a tech... Yeah .. right.. :|

6884. Re: [TS-520_820_530_830] Re: TS-830s distorted TX and distorted sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 02:57:43 UTC
From: Kevin der Kinderen
Topic: 6860 Message: 6884

Most excellent Pete. Thanks for sharing the troubleshooting experience with us and glad the 830 is back in business.

73,
Kev - K4VD

On 3/8/06, pgweber <pgweber@...> wrote:
>
> The problem is fixed!
>
> The previous owner had performed a QRO modification: On the
> rectifier board he had cut the trace that supplies 210a voltage to
> R13. He added a jumper to connect that circuit to 300B voltage.
> This caused R13 to eventually fail, causing the distortion on the
> STB line (STB is derived from 210a through a voltage divider
> consisting or R13 and R12).
>
> Sidetone and TX output are clean once again.
>
> By the way, this QRO mod increases the screen voltage to a level
> that causes premature failure of the final output tubes. I could
> actually hear arcing in the tubes on occasion.
>
> Thanks to all,
>
> Pete
> KE5CTT
>
>

[Non-text portions of this message have been removed]

6885. Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 09:26:58 UTC
From: Walt Breining
Topic: 6874 Message: 6885

I assume that with the good 12BY7 you get normal receive. There are two possibilities. First, the replacement 12BY7 could be weak. This would impact the higher frequencies more.

The second and most likely problem is that you fried a component when you saw the magic smoke escape. I do not have a diagram of the TS 530 but you should look for resistors particularly under 100 ohms that are open or choke coils that are open or shorted. Look in the control grid or cathode circuit of the 12BY7 for these. Also, look around the 12BY7 screen grid circuit and measure the screen grid voltage on the 12BY7.

Vy 73, Walt N9WB

----- Original Message -----
From: "A. Newell" <kn4nn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 07, 2006 4:55 PM
Subject: [TS-520_820_530_830] Re: TS-530SP DIED!!

> tnx walt,
> i get the 60ma idle with the 12by7 out, and good rx.
> i think part of it, was the 12by7. i put a known one in, and i can get
> 100w tx on 75m & 70w on 20m, but 35w on 40m & 20w on 10m. also no alc
> meter deflection while tuning or talking. plate current is low 200ma
> on 70m, hv is 900. the 12by7 that was in when it quit was very hot
> compared to this one.
>
> john
> kn4nn
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
> wrote:
> >
> > Well, the first thing that I would do is to try to see where the
> smoke came
> > from. I would then remove the 12BY7 turn the rig on without the
> filaments on
> > and see if the receive is normal. If so, turn the filaments back on
> and see
> > if the receive drops.
> >
> > If the receive does drop, see if the lights dim and turn it off
> quickly. If
> > it starts looking like there is a load on the power supply, you
> should place
> > a light bulb in series with the AC mains before proceeding so as not to

> > damage the transformer while troubleshooting. Be sure that you have the
> > correct fuse installed!
> >
> > On the other hand, if everything seems to work ok with the 12BY7
> removed,
> > you need to find where the magic smoke came from. Likely a choke coil or
> > resistor on the RF board.
> >
> > Things to check would be L-38 and L-39. R41, R37 and R35. My
> diagram is
> > blurry so these numbers may be in error but I tried.
> >
> > Also consider the possibility that a final may be shorted. If this
> is the
> > case, look for fried components on the final and HV board,
> particularly the
> > resistors associated with the final screen supply. If after
> removing the
> > 12BY7, everything acts normal, key the rig on SSB with the 12BY7
> removed and
> > see if you still get 60 MA idle current, or close. If so you can
> probably
> > look somewhere other than the final or HV board.
> >
> > Although I mentioned the final board to be thorough, I think that
> you are on
> > the right track, most likely the 12BY7 shorted and fried a coil or
> resistor
> > near it in the process.
> >
> > Hope this helps, let us know what you find or how you do.
> >
> >
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "A. Newell" <kn4nn@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Tuesday, March 07, 2006 1:58 AM
> > Subject: [TS-520_820_530_830] TS-530SP DIED!!
> >
> >
> > > my 530sp had been a little interminant during tune up, (flaky meter
> > > deflection w/drive, like something was loose)i was in qso, and radio
> > > had been on for an hour or more, when i lost tx in the middle of a
> > > transmission. the rx also dropped from abt 20+ to s7. i smelled a
> > > little burnt smell, and pulled the cover. the smell was comming up
> > > near the 12by7a. if i turned off the heater, i would get the rx back.
> > > i can't find anything burnt, and the driver was new. could it have a

> > > grid short? or what do ya'll think?
> > >
> > > tnx,
> > >
> > > "john" kn4nn
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6886. Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 10:26:06 UTC
From: Walt Breining
Topic: 6874 Message: 6886

Joan:

Was this choke in the plate circuit or cathode circuit or elsewhere. In what circuit was the bypass cap ?
Walt N9WB

----- Original Message -----
From: "Joan de vk5kyo" <VK5KYO@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 07, 2006 9:48 PM
Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

> Hi John
>
> I am not familiar with the 530, but I have recently repaired an 830,
> which some people say are very similar. I stand corrected if not.
> I have posted the 830 problem and solution in this group, but I will
> give you a brief description if you missed it.
> The 830 had good power up to 40m. Power slihtly reduced on 20m, nothing
> on 17m, and very low output on higher bands.
> No ALC on 17m, and very low ALC on bands above 17m.
> A shorted choke/inductor feeding the 12BY7 and a leaky bypass capacitor
> were replaced and the 830 is back on air.
> I suspect that your 530 may have suffered the same. If the 12BY7 draws
> excessive current, it will take the RF choke out.
> The choke's value in the 830 was 470uH and measured about 4 Ohms. If the
> 530 has a similar value, then you can check for the same.
> The faulty choke measured much less than 1 Ohm.
> All the best
>
> Joan VK5KYO
>
> A. Newell wrote:
>
> > tnx walt,
> > i get the 60ma idle with the 12by7 out, and good rx.
> > i think part of it, was the 12by7. i put a known one in, and i can get
> > 100w tx on 75m & 70w on 20m, but 35w on 40m & 20w on 10m. also no alc
> > meter deflection while tuning or talking. plate current is low 200ma
> > on 70m, hv is 900. the 12by7 that was in when it quit was very hot
> > compared to this one.
> >
> > john
> > kn4nn
>
>

>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6887. Re: [TS-520_820_530_830] Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 10:29:08 UTC
From: Walt Breining
Topic: 6879 Message: 6887

A relay may need cleaning. There is a level control for the monitor beside the rig volume control. Probably using just one set of contacts on a switch is normal.
N9WB Walt

----- Original Message -----
From: "jovem_cao" <mouradesousa@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 07, 2006 9:53 PM
Subject: [TS-520_820_530_830] Re: Just received a "new" ts-830s and have some problems...

> I dont mean to flood this mailing list, but since I have been
> exploring my 830 I have found some other flaws...
>
> The NB doesnt seem to have any effect and I found that the switch
> seems to have only one side conected:
>
> http://img455.imageshack.us/img455/7/dsc016153wv.jpg
>
> and
>
> http://img455.imageshack.us/img455/1777/dsc016160su.jpg
>
> I wonder if the Moni switch is also like that one... I have to try to
> open the down side of the transceiver tommorow...
>
> After I key down the microphone, receive goes down a lot, I have read
> that it should be from the RC/TX switch... need to clean that too...
> Any tips to locate it fast?
>
> The guy that sold me this transceiver told me it had been Reviewed by
> a tech... Yeah .. right.. :|
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>

6888. Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 18:43:51 UTC
From: jovem_cao
Topic: 6879 Message: 6888

Greetings sir and thanks for the tip.

I have been exploring more and NB ,ight be working, although it is not very obvious... processor might need a little tweak, but works.

Monitor does nothing. I seen on the service manual there is a monitor volume adjustment on the left side of top PCB. I tried adjust it and nothing happens. I wonder if it might be a problem with the clamp conectors that I have read about that might have bad contact.

My doubt is, which of them has has anything to do with the Monitor circuit... If anyone knows would be a lot of help...

ps: i cleaned the tx/rx relay, and it works fine now :)

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> A relay may need cleaning. There is a level control for the monitor beside
> the rig volume control. Probably using just one set of contacts on a switch
> is normal.
> N9WB Walt
>
> ----- Original Message -----
> From: "jovem_cao" <mouradesousa@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, March 07, 2006 9:53 PM
> Subject: [TS-520_820_530_830] Re: Just received a "new" ts-830s and have
> some problems...
>
>
> > I dont mean to flood this mailing list, but since I have been
> > exploring my 830 I have found some other flaws...
> >
> > The NB doesnt seem to have any effect and I found that the switch
> > seems to have only one side conected:
> >
> > http://img455.imageshack.us/img455/7/dsc016153wv.jpg
> >
> > and
> >
> > http://img455.imageshack.us/img455/1777/dsc016160su.jpg
> >

> > I wonder if the Moni switch is also like that one... I have to try
to
> > open the down side of the transceiver tommorow...
> >
> > After I key down the microphone, receive goes down a lot, I have
read
> > that it should be from the RC/TX switch... need to clean that too
...
> > Any tips to locate it fast?
> >
> > The guy that sold me this transceiver told me it had been Reviewed
by
> > a tech... Yeah .. right.. :|
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

6889. Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 20:38:59 UTC
From: jovem_cao
Topic: 6879 Message: 6889

Hummm I removed the VFO, and the little PCB to the left seems to have
two missing point on the PCB.. please see the photos:

http://img529.imageshack.us/img529/5721/comp18tw.jpg

and

http://img529.imageshack.us/img529/9923/comp21bd.jpg

Is this normal? Does this little PCB have anything to do with the
Monitor circuit?

Thanks :)

Sergio CT2IWG

6890. Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 20:49:32 UTC
From: Bill Scurlock
Topic: 6874 Message: 6890

Hi Walt.

Regarding your question to Joan, I experienced the same problem that she did, and she coached me thru the repair. I have both radios (530 and 830), and checked their schematics. The component identifications for both radios are L36, 470 microhenry, and C74, 0.01 mfd, and they are in the 12BY7A plate circuit on the RF Board. Access for replacement can be from the bottom by removing the metal plate under the RF Board which is easier than removing the RF Board itself. Both components went bad in Joan's radio, and only the inductor went shorted in mine. With an ohmeter, a good inductor measures about 4 ohms. My bad one measured about 0.2 ohm - so at least that gives you an indication if you don't have a meter to measure inductance. With the bad inductor in my 830, I could receive on all bands, and transmit on all bands except 15M where there was no ALC indication or power output. The affect on Joan's radio was a little different on the higher bands, but that was probably because the capacitor was also bad in her radio. But, you should pursue that with her if you need to. Hope that is of some help.

73, Bill, K5GCW
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, March 08, 2006 4:26 AM
Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

Joan:

Was this choke in the plate circuit or cathode circuit or elsewhere. In what
circuit was the bypass cap ?
Walt N9WB

----- Original Message -----
From: "Joan de vk5kyo" <VK5KYO@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 07, 2006 9:48 PM
Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

> Hi John
>
> I am not familiar with the 530, but I have recently repaired an 830,
> which some people say are very similar. I stand corrected if not.
> I have posted the 830 problem and solution in this group, but I will
> give you a brief description if you missed it.
> The 830 had good power up to 40m. Power slihtly reduced on 20m, nothing
> on 17m, and very low output on higher bands.
> No ALC on 17m, and very low ALC on bands above 17m.
> A shorted choke/inductor feeding the 12BY7 and a leaky bypass capacitor
> were replaced and the 830 is back on air.

> I suspect that your 530 may have suffered the same. If the 12BY7 draws
> excessive current, it will take the RF choke out.
> The choke's value in the 830 was 470uH and measured about 4 Ohms. If the
> 530 has a similar value, then you can check for the same.
> The faulty choke measured much less than 1 Ohm.
> All the best
>
> Joan VK5KYO
>
> A. Newell wrote:
>
> > tnx walt,
> > i get the 60ma idle with the 12by7 out, and good rx.
> > i think part of it, was the 12by7. i put a known one in, and i can get
> > 100w tx on 75m & 70w on 20m, but 35w on 40m & 20w on 10m. also no alc
> > meter deflection while tuning or talking. plate current is low 200ma
> > on 70m, hv is 900. the 12by7 that was in when it quit was very hot
> > compared to this one.
> >
> > john
> > kn4nn
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6891. Kenwood AT-200 Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 20:34:10 UTC
From: Frank Lambert
Topic: 6891 Message: 6891

Hi All,
Can anyone send me a PDF or JPEG of the Service Manual for the AT-200 Antenna Tuner? I have tried everywhere and the only thing I can find is the operating manual. Thank you es 73's.
Frank WB4OUF

6892. Re: [TS-520_820_530_830] Kenwood AT-200 Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 22:08:08 UTC
From: Kay Groß
Topic: 6891 Message: 6892

Hello Frank,

I think there was never a service manual made
for this antenna tuner. There are only a hand full parts in it ,so I think
it was not necessary to do so.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

----- Original Message -----
From: "Frank Lambert" <wb4ouf@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 08, 2006 9:34 PM
Subject: [TS-520_820_530_830] Kenwood AT-200 Service Manual

> Hi All,
> Can anyone send me a PDF or JPEG of the Service Manual for the AT-200
> Antenna Tuner? I have tried everywhere and the only thing I can find
> is the operating manual. Thank you es 73's.
> Frank WB4OUF
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6893. Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-08 23:53:03 UTC
From: Arthur Petteway
Topic: 6874 Message: 6893

Bill, I am glad you got the TS-830S 15 meter band working. I have a great idea Bill and that is for you to compile all this information into a format that will help others if they have these problems with the TS-830S. What do you think? Also thanks to Joan for all the information she has provided. Good to see you again Bill.

73
Art
WB4MNK
----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 08, 2006 3:49 PM
Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!!

> Hi Walt.
>
> Regarding your question to Joan, I experienced the same problem that she
> did, and she coached me thru the repair. I have both radios (530 and
> 830), and checked their schematics. The component identifications for
> both radios are L36, 470 microhenry, and C74, 0.01 mfd, and they are in
> the 12BY7A plate circuit on the RF Board. Access for replacement can be
> from the bottom by removing the metal plate under the RF Board which is
> easier than removing the RF Board itself. Both components went bad in
> Joan's radio, and only the inductor went shorted in mine. With an
> ohmeter, a good inductor measures about 4 ohms. My bad one measured about
> 0.2 ohm - so at least that gives you an indication if you don't have a
> meter to measure inductance. With the bad inductor in my 830, I could
> receive on all bands, and transmit on all bands except 15M where there was
> no ALC indication or power output. The affect on Joan's radio was a
> little different on the higher bands, but that was probably because the
> capacitor was also bad in her radio. But, you should pursue that with her
> if you need to. Hope that is of some help.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, March 08, 2006 4:26 AM
> Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!!
>
>
>
> Joan:
>
> Was this choke in the plate circuit or cathode circuit or elsewhere. In

> what
> circuit was the bypass cap ?
> Walt N9WB
>
> ----- Original Message -----
> From: "Joan de vk5kyo" <VK5KYO@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, March 07, 2006 9:48 PM
> Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!!
>
>
> > Hi John
> >
> > I am not familiar with the 530, but I have recently repaired an 830,
> > which some people say are very similar. I stand corrected if not.
> > I have posted the 830 problem and solution in this group, but I will
> > give you a brief description if you missed it.
> > The 830 had good power up to 40m. Power slihtly reduced on 20m, nothing
> > on 17m, and very low output on higher bands.
> > No ALC on 17m, and very low ALC on bands above 17m.
> > A shorted choke/inductor feeding the 12BY7 and a leaky bypass capacitor
> > were replaced and the 830 is back on air.
> > I suspect that your 530 may have suffered the same. If the 12BY7 draws
> > excessive current, it will take the RF choke out.
> > The choke's value in the 830 was 470uH and measured about 4 Ohms. If
> the
> > 530 has a similar value, then you can check for the same.
> > The faulty choke measured much less than 1 Ohm.
> > All the best
> >
> > Joan VK5KYO
> >
> > A. Newell wrote:
> >
> > > tnx walt,
> > > i get the 60ma idle with the 12by7 out, and good rx.
> > > i think part of it, was the 12by7. i put a known one in, and i can
> get
> > > 100w tx on 75m & 70w on 20m, but 35w on 40m & 20w on 10m. also no alc
> > > meter deflection while tuning or talking. plate current is low 200ma
> > > on 70m, hv is 900. the 12by7 that was in when it quit was very hot
> > > compared to this one.
> > >
> > > john
> > > kn4nn
> >
> >
> >
> >
> >

> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> --
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.375 / Virus Database: 268.2.1/277 - Release Date: 3/8/2006
>
>

6894. Re: [TS-520_820_530_830] Re: TS-530SP DIED!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-09 03:30:04 UTC
From: Joan de vk5kyo
Topic: 6894 Message: 6894

Hi Walt/Bill and others

Thanks Bill for answering Walts question for me.
I found an older posting below for those interested in the TS-830 fault details.

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /REPAIRS AND ALIGNMENT/TS 830 notes from VK5KYO
Uploaded by : n9wb <n9wb@...>
Description : TS-830 repair notes, bandswitch etc.

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/REPAIRS%20AND%20ALIGNMENT/TS%20830%20notes%20from%20VK5KYO

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

n9wb <n9wb@...>

Bill, I don't mean to embarass you here but I was rather amused by your assumption that I wear a skirt. Authorities, banks and many people have done the same thing, except I am born of male gender. I was born in formerly Dutch New Guinea and my parents named me after a governor general. It was never an issue until we migrated to Australia where it is a common girls name (and all over the world). I am not offended by it at all and think it is rather funny. I can tell you a number of funny stories, but I wont go there. I thought it be good if the group was aware. I have really enjoyed this group. There is an excellent exchange and wealth of information available. Well done people.

Joan

6895. Re: [TS-520_820_530_830] Re: TS-530SP DIED!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-09 12:58:03 UTC
From: Arthur Petteway
Topic: 6894 Message: 6895

Hi Joan, We printed the post which explains the problem and how to fix it.
If I have the problem mentioned I will have some notes to refer to.

73
Art
WB4MNK
Sorry for using the she word on last post but now I understand.
----- Original Message -----
From: "Joan de vk5kyo" <VK5KYO@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 08, 2006 10:30 PM
Subject: Re: [TS-520_820_530_830] Re: TS-530SP DIED!

> Hi Walt/Bill and others
>
> Thanks Bill for answering Walts question for me.
> I found an older posting below for those interested in the TS-830 fault
> details.
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the TS-520_820_530_830
> group.
>
> File : /REPAIRS AND ALIGNMENT/TS 830 notes from VK5KYO
> Uploaded by : n9wb <n9wb@...>
> Description : TS-830 repair notes, bandswitch etc.
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/TS-520_820_530_830/files/REPAIRS%20AND%20ALIGNMENT/TS%2083
0%20notes%20from%20VK5KYO
>
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/help/us/groups/files
>
> Regards,
>
> n9wb <n9wb@...>
>
>
> Bill, I don't mean to embarass you here but I was rather amused by your
> assumption that I wear a skirt. Authorities, banks and many people have

> done the same thing, except I am born of male gender. I was born in
> formerly Dutch New Guinea and my parents named me after a governor
> general. It was never an issue until we migrated to Australia where it
> is a common girls name (and all over the world). I am not offended by it
> at all and think it is rather funny. I can tell you a number of funny
> stories, but I wont go there. I thought it be good if the group was aware.
> I have really enjoyed this group. There is an excellent exchange and
> wealth of information available. Well done people.
>
> Joan
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.375 / Virus Database: 268.2.1/277 - Release Date: 3/8/2006
>
>

6896. Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 02:08:24 UTC
From: pchapman9202003
Topic: 6823 Message: 6896

Slowly is fast enough. It is so much faster than not at all....

Good people to learn from here and good luck

--- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard"
<barnardbaca@...> wrote:
>
> The 100 watt lightbulb shines brightly as predicted by Walt.
> Has to be the MFJ 'TUNER'. I'm learning...slowly.
>
> tnx much
> 73
> Rob WB7AVF/2
>

6897. DG-5 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 02:24:57 UTC
From: The Bandit
Topic: 6897 Message: 6897

I recently purchased a Kenwood DG-5 at a fest to use with my TS-520S. All digits light, but the frequency is off by about 2mhz and the main tuning knob does not change the display frequency. I saw these same symptoms listed in the kenwood service bulletins and they suggest cleaning the rca jack on the DG-5 which I did with the same results. Does anyone have any other ideas, or know how to tell if the rig or the dg-5 is at fault. The guy selling the DG-5 said it worked fine (although that doesn't mean much these days).

Or if anyone in the S. FL area has a TS-520S that would be willing to let me connect this to, to test it, that could tell for sure.

Thanks!

Yahoo! Mail
Use Photomail to share photos without annoying attachments.

[Non-text portions of this message have been removed]

6898. Re: [TS-520_820_530_830] Re: Fm WB7AVF/2: TS820 POWER OUTPUT DOWN

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 13:13:34 UTC
From: RBB
Topic: 6823 Message: 6898

Absolutely. 73...
--- pchapman9202003 <p_chap@...> escribi?:

Slowly is fast enough. It is so much faster than not
at all....

Good people to learn from here and good luck

--- In TS-520_820_530_830@yahoogroups.com, "Roberto
Baca Barnard"
<barnardbaca@...> wrote:
>
> The 100 watt lightbulb shines brightly as predicted
by Walt.
> Has to be the MFJ 'TUNER'. I'm learning...slowly.
>
> tnx much
> 73
> Rob WB7AVF/2
>

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

_____
Do You Yahoo!?
La mejor conexi?n a Internet y 2GB extra a tu correo por $100 al mes.
http://net.yahoo.com.mx

6899. Re: [TS-520_820_530_830] DG-5 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 15:02:18 UTC
From: Brent W. Baum
Topic: 6897 Message: 6899

Two things cause this same fault with my DG-5. First, loose connections: try lightly squeezing the fingers of the various RCA connectors toward the center of the plug to tighten the fit. Second, a loose VFO plug connection: make sure your VFO plug or jumper on the back of the radio is making a good connection. The final quick fix is one many of us don't like to admit, are the cables connected correctly?

Good luck
K7MEI

Brent W. Baum
Assistant Director - PWI

Career Services & Student Employment
Utah Valley State College
800 West University Parkway
Orem, UT 84058-5999
(801) 863-8711
(801) 863-8051 fax
baumbr@...

>>> flabandit65@... 3/9/2006 7:24 PM >>>

I recently purchased a Kenwood DG-5 at a fest to use with my TS-520S. All digits light, but the frequency is off by about 2mhz and the main tuning knob does not change the display frequency. I saw these same symptoms listed in the kenwood service bulletins and they suggest cleaning the rca jack on the DG-5 which I did with the same results. Does anyone have any other ideas, or know how to tell if the rig or the dg-5 is at fault. The guy selling the DG-5 said it worked fine (although that doesn't mean much these days).

Or if anyone in the S. FL area has a TS-520S that would be willing to let me connect this to, to test it, that could tell for sure.

Thanks!

Yahoo! Mail
Use Photomail to share photos without annoying attachments.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

6900. Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 15:37:08 UTC
From: Daniel
Topic: 6879 Message: 6900

Hi Sergio

"... I only get decent ALC reading using a MC-50 with Mic gain on 8 or 9 position. I usually
use it on 6 on my ts-520se. Is this normal? Can this be related to no monitor sound?
I also didnt notice any difference with the processor on/off..."

The MC-50 has 2 possibility of Mic-Impedance, low + high. You can change this, when you turn the connetor, which is going into the mic, for 180 degrees! So this could be the low ALC/Comp-Level problem.... who knows

Daniel, HB9DDS

6901. Re: What is the "gold edition" TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 23:04:34 UTC
From: pchapman9202003
Topic: 6867 Message: 6901

My 820 is grey, thus I have the GREY EDITION, and it was indeed
limited production. (To the number of buyers that bought them)

--- In TS-520_820_530_830@yahoogroups.com, "Brent W. Baum"
<baumbr@...> wrote:
>
> Is that the one with the silver lettering? If so I have a TS-520
SE platinum. :)
>
> Brent W. Baum
> Assistant Director - PWI
>
> Career Services & Student Employment
> Utah Valley State College
> 800 West University Parkway
> Orem, UT 84058-5999
> (801) 863-8711
> (801) 863-8051 fax
> baumbr@...
>
> >>> w3iz@... 3/6/2006 5:18:51 AM >>>
>
> Just marketing.
>
> If you want one, I know where there's a platinum edition.
> 73,
> Norm, W3IZ
> www.w3iz.com
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

6902. Re: What is the "gold edition" TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-10 23:10:19 UTC
From: pchapman9202003
Topic: 6867 Message: 6902

I also have a Ford Explorer Limited Edition. Much like my GREY
EDITION 820, it's sales were also limited to the number of buyers
they had.

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>
> > Just marketing.
> > If you want one, I know where there's a platinum edition.
> > Norm, W3IZ
>
> Good for them. The good news is that the guy who spent $50K-$150K
on
> an MBA has seen his ideas at work to create a preceived value out
of
> nothing.
> Gary / ke9zm
>
> --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@> wrote:
> >
> > Just marketing.
> >
> > If you want one, I know where there's a platinum edition.
> > 73,
> > Norm, W3IZ
> > www.w3iz.com
> >
>

6903. Re: Just received a "new" ts-830s and have some problems...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 00:10:28 UTC
From: jovem_cao
Topic: 6879 Message: 6903

Thanks for the tip, dear Daniel, but it is on the right position...
I guess the gain from the 830s is different from my 520se...

Thanks anyway for the possible help :)

Sergio CT2IWG

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> Hi Sergio
>
> "... I only get decent ALC reading using a MC-50 with Mic gain on 8
or 9 position. I usually
> use it on 6 on my ts-520se. Is this normal? Can this be related to
no monitor sound?
> I also didnt notice any difference with the processor on/off..."
>
> The MC-50 has 2 possibility of Mic-Impedance, low + high. You can
change this, when you
> turn the connetor, which is going into the mic, for 180 degrees! So
this could be the low
> ALC/Comp-Level problem.... who knows
>
> Daniel, HB9DDS
>

6904. Re: DG-5 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 00:41:25 UTC
From: Bill Barron
Topic: 6897 Message: 6904

Sounds like your DH button on front panel of DG-5 in pushed "in"
[on]. Make sure this button is "out" [off] and function is on
VFO not "fixed".

Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, The Bandit
<flabandit65@...> wrote:
>
> I recently purchased a Kenwood DG-5 at a fest to use with my TS-
520S. All digits light, but the frequency is off by about 2mhz and
the main tuning knob does not change the display frequency. I saw
these same symptoms listed in the kenwood service bulletins and they
suggest cleaning the rca jack on the DG-5 which I did with the same
results. Does anyone have any other ideas, or know how to tell if
the rig or the dg-5 is at fault. The guy selling the DG-5 said it
worked fine (although that doesn't mean much these days).
>
> Or if anyone in the S. FL area has a TS-520S that would be willing
to let me connect this to, to test it, that could tell for sure.
>
> Thanks!
>
> ---------------------------------
> Yahoo! Mail
> Use Photomail to share photos without annoying attachments.
>
> [Non-text portions of this message have been removed]
>

6905. Re: [TS-520_820_530_830] Re: DG-5 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 01:51:53 UTC
From: The Bandit
Topic: 6897 Message: 6905

Thanks all....Tried all the suggestions but still no change!

Bill Barron <W1WAB@...> wrote: Sounds like your DH button on front panel of DG-5 in pushed "in"
[on]. Make sure this button is "out" [off] and function is on
VFO not "fixed".

Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, The Bandit
<flabandit65@...> wrote:
>
> I recently purchased a Kenwood DG-5 at a fest to use with my TS-
520S. All digits light, but the frequency is off by about 2mhz and
the main tuning knob does not change the display frequency. I saw
these same symptoms listed in the kenwood service bulletins and they
suggest cleaning the rca jack on the DG-5 which I did with the same
results. Does anyone have any other ideas, or know how to tell if
the rig or the dg-5 is at fault. The guy selling the DG-5 said it
worked fine (although that doesn't mean much these days).
>
> Or if anyone in the S. FL area has a TS-520S that would be willing
to let me connect this to, to test it, that could tell for sure.
>
> Thanks!
>
> ---------------------------------
> Yahoo! Mail
> Use Photomail to share photos without annoying attachments.
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Brings words and photos together (easily) with
PhotoMail - it's free and works with Yahoo! Mail.

[Non-text portions of this message have been removed]

6906. Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 04:03:48 UTC
From: ke9zm
Topic: 6906 Message: 6906

I thought I would pass this along based on my experience and maybe suggest some ways you can avoid a smashed radio during shipping.

In the recent past I purchased three Kenwood Hybrids - a TS-520S, a TS-820S and just recently a TS-830S. I can report that they have all become friends and are getting along nicely.

The issue is shipping these things. A kenwood Hybrid is not an ICOM 706 that maybe weights a few pounds. Kenwood Hybrids weigh about 40 pounds and so getting these radios from point A to point B in one piece and not damaged is a challenge.

I just purchased and recieved my "new" TS-830S. The seller packed it as follows. The radio wrapped with about 4 layers of thick bubble wrap, inside the original TS-830S box, inside a second box separated with peanuts and tighly sealed. It was sent FedEX insured.

When it arrived it had a pucture in the side of the box. The puncture hole went through the first box, through the peanuts, through the second box and through one layer of bubble wrap. There was no damage to the radio. If it was not for the approx 6+ inches of peanuts, bubble wrap, and cardboard, the puncture would have hit the radio.

I also bough a TS-820S. The seller packed this one in the same manner but seems the box took a hit and smashed the VFO knob. I had to disasseble and reassemble the varios VFO knob components and dials to fix this. The radio was not damaged.

I bought a TS-520S from a ham radio store. The box that it came in was enormous. It was double boxed with about 10 inches of space between the boxes filled with peanuts.

So, what's the bottom line? Two of the past three radio's I bought had a tough journey from the shipper from point A to point B.

To avoid this, my suggestion is that sometimes you need to educate the seller on how to pack these radios. Some folks on e-bay are not hams and they sell these radio not having the slighest clue as to how to pack these to avoid damage given their weight. You will lose in this situation when you open the box.

On ebay, there is a box at the checkout that offers you to send some info to the seller. When in doubt about packing, tell the seller of communicate directly with him/her on how to pack the radio.

Best packed was what I got from the ham store. The enormous box provided about 10 inches of "crush space" and "puncture space" around the radio in a second box.

Better safe than sorry. The bigger the outer box the better. Tell the seller how to pack the radio to avoid damage of your new old radio. In my case, two radios out of three with potential and real damage is not a good record.

Gary / ke9zm

6907. RIT control TS820--chirpy

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 17:51:18 UTC
From: Roberto Baca Barnard
Topic: 6907 Message: 6907

My TS820 RIT control pot works okay, but signals sound just a tiny bit "chirpy" as I move the knob, and only when moving knob. Just dirt? Carefully sprayed (air) AF pot to good effect, ditto VFO shaft. Please advise..tnx. 73 WB7AVF/2

Question two: anyone got a CW filter for the TS820? Mine doesn't have it installed and the space on the board begs for it.

6908. Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 22:58:40 UTC
From: lajes67
Topic: 6906 Message: 6908

Here's something else to try, if you can get your hands on any of it. I get computers, monitors and parts sent to me, some of the shippers use what I think is formaldahyde (I am not going to spell check that!) that gets sprayed in wet and molds itself around the component. I had received a printer back from factory repair and the packing it came in fit very nicely, top and bottom on the TS530S I was sending out for repair. I took the advice of the person I was shipping it to and put something extra around the dial knob and filled everything else with the plastic peanuts, it was suggested that I put the peanuts in plastic bags, it seemed to add more protection than having them loose in the box. The final shipping weight was about 28 pounds, it didn't add that much on to the cost of the shipping and I felt it was worth it when I got the report that the radio had reached its destination in good condition.
John K2IZ

6909. Re: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 23:38:03 UTC
From: w3iz
Topic: 6906 Message: 6909

I use insulating dense foam on the bottom of my shipping cartons. This is found at home centers and if you stroll in on a late Sunday or early Monday morning you may be lucky enough to buy a broken piece for a buck or two or three. They come in 4x8 sheets and can be up to 2 inches thick.

I have also used spray foam insulation to fill voids in a shipping carton and to ensure that the inner carton won't shift around. There are three types of this foam. One is minimal expansion and the other will expand to several times its original volume. These are both urethane based products and require acetone to clean up. (nail polish remover) They are also found in the building supply section of the big boxes with the other insulating products.

The third type is a water based product made by DAP. This is found in the paint section and it has the advantages of a water clean up and minimal odor. The only draw back is that it takes a bit longer to cure and doesn't expand as much as a urethane based product.

In any case, if you do use this foam it's a once and done application. No matter how much you try to clean those valves and spray parts you can never use the rest of the contents left in the can.

I hope these tips help some of you folks who are shipping these 40 pound charms. I have on occasion paid extra to have an item shipped exactly the way I wanted it to be. This way it absolves the shipper of any responsibility if he or she follows your instruction to the letter.

Also, don't be afrrid to ship an empty carton to a seller to use to ship back your item.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "lajes67" <k2iz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 11, 2006 5:58 PM
Subject: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

> Here's something else to try, if you can get your hands on any of
> it. I get computers, monitors and parts sent to me, some of the
> shippers use what I think is formaldahyde (I am not going to spell
> check that!) that gets sprayed in wet and molds itself around the

> component. I had received a printer back from factory repair and the
> packing it came in fit very nicely, top and bottom on the TS530S I was
> sending out for repair. I took the advice of the person I was
> shipping it to and put something extra around the dial knob and filled
> everything else with the plastic peanuts, it was suggested that I put
> the peanuts in plastic bags, it seemed to add more protection than
> having them loose in the box. The final shipping weight was about 28
> pounds, it didn't add that much on to the cost of the shipping and I
> felt it was worth it when I got the report that the radio had reached
> its destination in good condition.
> John K2IZ
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

6910. Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 23:45:00 UTC
From: ke9zm
Topic: 6906 Message: 6910

Gee, odd that you should mention that. I was talking to someone today and he sent his radio to Yaesu for repairs. It came back sealed in foam. We think it works as folows. The radio was placed in plastic bag and then placed on a box. Then the radio was sprayed with a foam that hardens and expands. So, the end result was the radio packed in foam that is molded around all the knobs and dials and firmly held in the box.

I saw some stuff at Home Depot that is used for sealing open spaces, like around windows. You spray it in and expands to 100x and then hardens. Maybe thats the stuff. Worth an experiment to see what happens.

Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "lajes67" <k2iz@...> wrote:
>
> Here's something else to try, if you can get your hands on any of
> it. I get computers, monitors and parts sent to me, some of the
> shippers use what I think is formaldahyde (I am not going to spell
> check that!) that gets sprayed in wet and molds itself around the
> component. I had received a printer back from factory repair and the
> packing it came in fit very nicely, top and bottom on the TS530S I was
> sending out for repair. I took the advice of the person I was
> shipping it to and put something extra around the dial knob and filled
> everything else with the plastic peanuts, it was suggested that I put
> the peanuts in plastic bags, it seemed to add more protection than
> having them loose in the box. The final shipping weight was about 28
> pounds, it didn't add that much on to the cost of the shipping and I
> felt it was worth it when I got the report that the radio had reached
> its destination in good condition.
> John K2IZ
>

6911. Re: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-11 23:52:02 UTC
From: w3iz
Topic: 6906 Message: 6911

That's the stuff.
The name brand is called GREAT STUFF

BTW, the stuff that is used around doors and windows is MINIMAL expansion.
The super expanding stuff will swell so much that the doors and window won't
open or close. You can even break the glass in a window sash if the foam
has no place to go.

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.

6912. Beam antenna

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 01:08:47 UTC
From: w3iz
Topic: 6912 Message: 6912

Hi Folks.
Q. Do you know what makes a TS-830 or a TS-520 really perform well?
A. A really good antenna.

Before I put this on the auctions I thought I would offer it out to the group.

I have a Cushcraft A-3 that has been completely rebuilt and has all new SS hardware and new balun. All the traps are as clean as a whistle with no dirt or bugs.
The elements are all assembled so it will arrive sub assembled making it a 20 minute job to get it to the tower or mast.

All the connections have been coated with No-Alox anti oxidant for years of trouble free operating.

These antennas are real workhorses providing 8 dB gain on a 14 ft boom. Great for small lots. Many DXers have worked over 200 DXCC countries with an A-3.

A new A-3 sells for $429 and you have to put all the little parts together. I am selling this one for $200. I can ship at the buyer's expense and I could also meet someone within 100 miles of Hartford, CT.

I will also be traveling to NJ & PA in April and could arange a meet then.

Please contact me off of the reflector at w3iz@...
or my phone is 860-584-1403.

Thanks for the bandwidth.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.

[Non-text portions of this message have been removed]

6913. Re: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 02:16:58 UTC
From: Peter A Markavage
Topic: 6906 Message: 6913

Don't get this stuff on your hands and clothes when it's coming out of the can. It's a bear to get off. Even after I finished what I was trying to seal, which turned out to be messy and ugly, I couldn't get the can to stop oozing this stuff. I wouldn't put this stuff in a box with my equipment even if I had ten bags around it.

Pete, wa2cwa

On Sat, 11 Mar 2006 18:52:02 -0500 "w3iz" <w3iz@...> writes:
That's the stuff.
The name brand is called GREAT STUFF

BTW, the stuff that is used around doors and windows is MINIMAL expansion.
The super expanding stuff will swell so much that the doors and window won't
open or close. You can even break the glass in a window sash if the foam

has no place to go.

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.

[Non-text portions of this message have been removed]

6914. Re: [TS-520_820_530_830] RIT control TS820--chirpy

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 08:57:43 UTC
From: Walt Breining
Topic: 6907 Message: 6914

Clean the RIT pot with do-oxit or if none is available rubbing alcohol.
Also there is a mod for the RIT. I have had several TS-820's and have not
needed to do it.
I bet the cleaning will help.

The mod is on the following site near the bottom:
http://www.radiomods.co.nz/kenwood/kenwoodts820.html

Vy 73, Walt N9WB

----- Original Message -----
From: "Roberto Baca Barnard" <barnardbaca@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 11, 2006 12:51 PM
Subject: [TS-520_820_530_830] RIT control TS820--chirpy

> My TS820 RIT control pot works okay, but signals sound just a tiny
> bit "chirpy" as I move the knob, and only when moving knob. Just dirt?
> Carefully sprayed (air) AF pot to good effect, ditto VFO shaft. Please
> advise..tnx. 73 WB7AVF/2
>
> Question two: anyone got a CW filter for the TS820? Mine doesn't have
> it installed and the space on the board begs for it.
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6915. Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 12:43:38 UTC
From: n3hkn
Topic: 6906 Message: 6915

I wonder if there is a small potential for damage with the
super-expansion foam from exerting pressure on the shipped product?
The safety valve is the shipping container. Hopefully it would burst
before some damage is done.

Dick N3HKN TS-520S

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>
> That's the stuff.
> The name brand is called GREAT STUFF
>
> BTW, the stuff that is used around doors and windows is MINIMAL
expansion.
> The super expanding stuff will swell so much that the doors and
window won't
> open or close. You can even break the glass in a window sash if the
foam
> has no place to go.
>
>
> 73,
> Norm, W3IZ
>
> Amateur Radio is a contact sport.
> Get on the air and make a contact.
>

6916. Re: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 13:37:16 UTC
From: w3iz
Topic: 6906 Message: 6916

Well, I guess we used to sell that stuff to stupid people who own homes so it stands to reason that there would be the same individuals out there who ship radios.

Don't try to fill the whole box at once and leave to top open so there is room for the foam to expand. Should it expand above the top line of the carton, it cuts easily with any knife.

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "n3hkn" <n3hkn@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 12, 2006 7:43 AM
Subject: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

>I wonder if there is a small potential for damage with the
> super-expansion foam from exerting pressure on the shipped product?
> The safety valve is the shipping container. Hopefully it would burst
> before some damage is done.
>
> Dick N3HKN TS-520S
>
> --- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>>
>> That's the stuff.
>> The name brand is called GREAT STUFF
>>
>> BTW, the stuff that is used around doors and windows is MINIMAL
> expansion.
>> The super expanding stuff will swell so much that the doors and
> window won't
>> open or close. You can even break the glass in a window sash if the
> foam
>> has no place to go.
>>
>>
>> 73,
>> Norm, W3IZ
>>
>> Amateur Radio is a contact sport.

>> Get on the air and make a contact.
>>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6917. Re: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 14:31:25 UTC
From: Dave and Loraine
Topic: 6906 Message: 6917

Just buy the gold edition.
It comes with a self de-materializer so you can transmaterialize it to anywhere.
Alternatively, TIG-weld two osmium brackets to the front plate to protect the VFO knob.

The gold edition manual also recommends:
Put a 100W lamp in the box to make it light.
Alternatively, fill the rig with helium to make it light.
Honest!

6918. Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 15:02:56 UTC
From: lajes67
Topic: 6906 Message: 6918

OK people, it's getting near that wonderfull time of the year, April 1st, just to keep things on track and in a good mood I will pass along something that was writen up in the Grumman club paper many years ago, and you must remember this was during the later years of the LEM project and the start of the F-14 Tomcat:

"Did you ever notice that after the water company works on the pipes, in some cases dirt and such comes out of the faucets? Same thing happens when the electric company works on their lines. You can check this out by removing a tube from your radio or TV, tapping it on a hard surface and you will actually see the dirt and stuff on the side of the tube. One quick way to eliminate dirt getting inside your expensive equipment is to install a simple trap where the electric service comes into your house. There are three leads, hot, neutral and ground (please remember I am not an electrician), after turning your service off, terminate either the neutral or hot lead on a screw leave about an 1/8 of an inch gap and terminate the other side on another screw. Under this hang a small plastic tray and turn everything back on. The electrons, being lighter than dirt will "jump" across the gap and the dirt will fall into the tray, empty as often as needed>"

John K2IZ
> Just buy the gold edition.
> It comes with a self de-materializer so you can transmaterialize it to anywhere.
> Alternatively, TIG-weld two osmium brackets to the front plate to protect the VFO knob.
>
> The gold edition manual also recommends:
> Put a 100W lamp in the box to make it light.
> Alternatively, fill the rig with helium to make it light.
> Honest!
>

6919. Re: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 15:32:51 UTC
From: KD5SFA
Topic: 6906 Message: 6919

Great Stuff and the expanding foam used in shipped
is not quite the same. Granted they are both expanding
foam but great stuff tends to harden more whereas the
stuff used in shipping boxes tends to be not as rigid.
Thus it has some shock absorbing qualities.

That an I believe that it is injected before the box is closed
so there is no danger of damage I've seen some delicate items
shipped that way.

73,
Jon
KD5SFA

-----Original Message-----
>From: n3hkn <n3hkn@...>
>Sent: Mar 12, 2006 6:43 AM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...
>
>I wonder if there is a small potential for damage with the
>super-expansion foam from exerting pressure on the shipped product?
>The safety valve is the shipping container. Hopefully it would burst
>before some damage is done.
>
>Dick N3HKN TS-520S
>
>--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>>
>> That's the stuff.
>> The name brand is called GREAT STUFF
>>
>> BTW, the stuff that is used around doors and windows is MINIMAL
>expansion.
>> The super expanding stuff will swell so much that the doors and
>window won't
>> open or close. You can even break the glass in a window sash if the
>foam
>> has no place to go.
>>
>>
>> 73,
>> Norm, W3IZ

>>
>> Amateur Radio is a contact sport.
>> Get on the air and make a contact.
>>
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>

6920. RE: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 20:25:52 UTC
From: Walter Milton
Topic: 6906 Message: 6920

Dick,

You are not putting the foam in a closed container. Since it has room to e x p a n d! The fidget foam is by far the best way to ship heavy hybrid gear. I have shipped several sets using it in double boxes.

Walt, KA2NJF

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n3hkn
Sent: Sunday, March 12, 2006 7:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Buying these Hybrid radios on ebay (& elsewhere) and packing...

I wonder if there is a small potential for damage with the
super-expansion foam from exerting pressure on the shipped product?
The safety valve is the shipping container. Hopefully it would burst
before some damage is done.

Dick N3HKN TS-520S

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>
> That's the stuff.
> The name brand is called GREAT STUFF
>
> BTW, the stuff that is used around doors and windows is MINIMAL
expansion.
> The super expanding stuff will swell so much that the doors and
window won't
> open or close. You can even break the glass in a window sash if the
foam
> has no place to go.
>
>
> 73,
> Norm, W3IZ
>
> Amateur Radio is a contact sport.
> Get on the air and make a contact.
>

SPONSORED LINKS

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hob
by&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+h
obby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvF
d0735w> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

6921. TS520 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 22:35:22 UTC
From: JOHN
Topic: 6921 Message: 6921

Hi to the group: I am working on a 520s with no power out.What I have done so far.
SG switch is on
cleaned relays
checked HV it is ok
NO BIAS
NO ALC
When I try to check bias meter swings down instead of up??
Tubes all light
This is a friends radio he said it worked fine one day and was dead the next.Receive and all other functions seem to be fine.

Thanks for your help....John

6922. Re: Buying these Hybrid radios and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-12 22:55:09 UTC
From: james27613
Topic: 6906 Message: 6922

hi,

Not everyone out there understands what
double boxed means !

I asked the seller of the ts-520 station
I purchased to double box it and send the
accessories seperate box and I would pay for it.
No problem she says, however, the radio was sent in
one box and other gear in the other !

Luck for me the UPS crews must have been hams,
all arrived in working condition, in used walmart
boxes with cruched newspaper inside.

73 james

6923. Low receive TS520S once properly tuned up ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-13 14:19:46 UTC
From: Phono-Guy
Topic: 6923 Message: 6923

I have this problem with a TS520S, all else seems to
work to specs, proper output, and HV readings.

The positon of the Drive control that results in
the best receive volume & deflection on the meter does
not correspond to the position of the Drive control
when this radio is tuned for maximum output.
So when this radio is all tuned up properly the
receive is down. Anyone have an idea where I should
start to try and find the cause of this problem?
Could it be related to the 12BY7A?

Appreciated any and all suggestions.

73,
Clint - WS1V

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6924. TS-820S Receiver Hum

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-14 02:14:25 UTC
From: Frank Lambert
Topic: 6924 Message: 6924

Well, I got the display problem and the audio problem "put away" and, after running the rig for a few hours, when I fired it up this evening, there was an EXCESS amount of receiver hum on the signal. Enough to make it almost distorted. I was not a "happy camper", after all the time I have put into this old rig so (I liked it a lot better in 1979.. Hi!) I did not even switch on the HV, so I have no idea about the transmit signal. I suspect C1 and C2 in the rectifier ckt. Can anyone recommend a good source for those electrolytics (show discontinued at East Coast Transistor) and, would you recommend going further with replacing all the electrolytics? I did search the archives and, saw some mention of someone possibly putting together a capacitor kit... Anyone know more about that? Does anyone have any other ideas about what might be going on? I don't have a scope so, I can't look at the ripple on the PS... This rig has been in storage for about 10 years.... Thank you es, 73's
Frank WB4OUF

6925. TS-820S Receiver Hum

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-14 13:07:25 UTC
From: Frank Lambert
Topic: 6924 Message: 6925

A little more info. on my problem. In addition to the 60 cycle hum, I am also getting an audible "buzz" around the transformer area. I do not have the HV switched on and I thought it was the fan at first but, have disconnected and eliminated that. Also the 25 Khz marker is distorted and sometimes not there at all. Also the frequency display has gone haywire and seems unstable. I can turn the RF gain down completely and advance the AF gain and the 60 cycle hum becomes more pronounced. There is also an occasional "crackling/frying" sound in the audio. I can receive but the reception is distorted. Have not even tried transmitting with it since this problem came up.... Bad part is, this thing was working like a charm just yesterday. Would appreciate any suggestions/help. Thanks again es, 73's
Frank, WB4OUF

6926. TS-820S Receiver Hum/The saga continues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-14 14:50:52 UTC
From: Frank Lambert
Topic: 6926 Message: 6926

The "hum" is fixed! There was a broken solder connection in one of the outboard VFO connectors.... Go figure... Anyway, now I have only one problem left. The VFO "stops" at the low end of 40, 80, and 160. It just gets down around the low end and then any further rotation of the VFO dial has no effect on the frequency setting and the display becomes unstable. The wierd part is that it does the same thing using the remote VFO as well....? AND...20M seems to work OK ?? Any thoughts? Thanks again, Frank WB4OUF

6927. 530S HELP NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-14 17:45:52 UTC
From: JOHN
Topic: 6927 Message: 6927

MY LAST POST SAID IT WAS A 520 IT IS A 530S..SORRY ABOUT THAT TO
RECAP
SG SWITCH IS ON
HV IS FINE
TUBES LIGHT
RECEIVE IS FINE.....BUT.....

NO BIAS CURRENT
NO ALC

THIS IS A FRIENDS RADIO HE SAID IT WAS OK ONE DAY AND DEAD THE NEXT
THIS IS WHAT I HAVE DONE TO DATE:

CLEANED RELAYS
CLEANED AND RESET ALL CONNECTORS
CHECKED AND CLEANED SG SWITCH (ITS OK)
TIGHTENED ALL SCREWS ON ALL BOARDS
CLEANED ALL POTS AND SWITCHES

I DONT HAVE A SCHEMATIC SO KIND OF WORKIN IN THE DARK I DID CHECK
THE SCREEN VOLTAGE SEEMS TO BE LOW 111V BUT NOT SURE.

WHERE SHOULD I GO FROM HERE ......THANKS....JOHN

6928. VF0-520S / AT-200 meter light?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-14 21:20:48 UTC
From: kc2nzf
Topic: 6928 Message: 6928

Hello to all,
I am in the process of assembling an entire TS-520S station. It now consists of the TS-520S, AT-200 antenna tuner, VFO-520S remote VFO, SP-520 speaker and DG-5 digital display. This is my primary HF rig and I enjoy using it...but...Has anyone ever modified the VF0-520s and AT-200 tuner to add lights for the meters. I use the tuner monitoring the fwd pwr to adjust the load and the plate current on the rig, it would sure add to the looks of the station if all the meters were lit. I would like the displays to be the same wattage as the rig. Thanks.
73s Mike KC2NZF

6929. 520 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-15 06:12:35 UTC
From: JOHN
Topic: 6929 Message: 6929

THANKS FOR THE MANUAL RICHARD HERE IS AN UPDATE I CHECKED THE TUBES AGAIN THEY BOTH LIGHT FINE CHECKED FOR BAD SOLDER JOINTS ALL LOOKS GOOD RECHECKED SCREEN VOLTAGE.....OK THIS IS STRANGE (I THINK) WITH SG SWITCH IN ON POSITION NO SCREEN VOLTAGE AT ALL, WITH SG OFF 111.5 VOLTS IN RECEIVE 97V IN TRANSMITT.STILL CAN GET NO BIAS OR ALC DEFLECTION.....NOT SURE WHERE TO LOOK ANYBODY HAVE ANY IDEAS.

6930. Re: [TS-520_820_530_830] 520 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-15 08:25:28 UTC
From: Richard Harris
Topic: 6929 Message: 6930

First thing to do is to sort out the cause of the low screen fault, which may fix the problem. The manual shows 275V receive and 253V transmit. Possibilities are a poor joint, a series resistor that has drifted high, a leaky decoupling capacitor or a rectifier fault. I suggest checking the voltages on the rectifier unit - take care there are lethal voltages in this area. I haven't traced the circuit from the screen of the PAs to the power supply, but the screen must be run from the 300V line.

Richard

At 06:12 15/03/2006 +0000, you wrote:
>THANKS FOR THE MANUAL RICHARD HERE IS AN UPDATE I CHECKED THE TUBES
>AGAIN THEY BOTH LIGHT FINE CHECKED FOR BAD SOLDER JOINTS ALL LOOKS
>GOOD RECHECKED SCREEN VOLTAGE.....OK THIS IS STRANGE (I
>THINK) WITH SG SWITCH IN ON POSITION NO SCREEN VOLTAGE AT ALL, WITH SG
>OFF 111.5 VOLTS IN RECEIVE 97V IN TRANSMITT.STILL CAN GET NO BIAS OR
>ALC DEFLECTION.....NOT SURE WHERE TO LOOK ANYBODY HAVE ANY IDEAS.
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>

> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6931. Re: [TS-520_820_530_830] 520 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-15 12:33:22 UTC
From: Walt Breining
Topic: 6929 Message: 6931

I assume that you know how to discharge the 800 V so you can work in the final cage safely. If not get back to me before you do anything.

Remove the tubes. Mark which one went where. (yea there is a reason). Be sure the plate leads and the parasitic chokes are positioned so they will not get into mischief.

Go to the SG switch. What are the voltages at the top terminal, the center terminal, and the bottom terminal. Be sure to note if they are + or -.

On the final unit board at the point labeled SG measure the voltage with the SG switch on. Be sure to note whether the voltage is + or - in each case.

Now, on the final board find a point where R5 and R6 join together. With the SG switch on, measure the voltage at this point.

Then measure the voltage on the other end of R5 and R6.

Go to pin 3 of each tube socket, be sure that you are counting the pins right and get the voltages there.

The rig will not have to be placed in transmit to make these measurements.Be careful, the 800 volts will be present on the HV and rectifier boards as well as the final cage. When the rig is turned off, it may take longer to discharge than with the tubes installed.

Page 33 of your owners manual has the final unit as figure 27.

Please let me know what these readings are with the caps lock on your keyboard turned off Hi.

Vy 73, Walt N9WB

----- Original Message -----
From: "JOHN" <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 15, 2006 1:12 AM
Subject: [TS-520_820_530_830] 520 NO OUTPUT

> THANKS FOR THE MANUAL RICHARD HERE IS AN UPDATE I CHECKED THE TUBES
> AGAIN THEY BOTH LIGHT FINE CHECKED FOR BAD SOLDER JOINTS ALL LOOKS
> GOOD RECHECKED SCREEN VOLTAGE.....OK THIS IS STRANGE (I
> THINK) WITH SG SWITCH IN ON POSITION NO SCREEN VOLTAGE AT ALL, WITH SG
> OFF 111.5 VOLTS IN RECEIVE 97V IN TRANSMITT.STILL CAN GET NO BIAS OR
> ALC DEFLECTION.....NOT SURE WHERE TO LOOK ANYBODY HAVE ANY IDEAS.
>
>
>

>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6932. 520 No Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-15 16:12:08 UTC
From: JOHN
Topic: 6932 Message: 6932

Thanks Walt,Richard and Jon for you help and sorry about the caps, force of habit,everything we do at work is caps only....did not mean to yell..Hi Hi I will take all voltages tonight and report back to the group.Have a great day and thanks again for your help!!

6933. 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 04:29:46 UTC
From: JOHN
Topic: 6933 Message: 6933

Hi Walt and the group,

Ok took the voltage measurements you asked to see they are as follows.

SG switch top -111
center 0
bottom 0

Need I go on? All others are also 0

pin 3 both tubes
R5&R6
SG point on board

Also the manual I have must be different then yours I have one that
says TS-530S/SP/D and says Korea market only? It is the service manual.
Where to look next? ....Thanks John

6934. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 08:50:32 UTC
From: Richard Harris
Topic: 6933 Message: 6934

John,

The "Korean Market" refers specifically to the TS-530D version, which has a single 6146B - this is dealt with on page 53 of the Service Manual. I would be very surprised if any "D" versions have ever made it to the US or Europe.

I have taken a look at the schematic for this part of the rig. The ON side of the SG switch is connected to point PD2 on the rectifier board and goes out of the board again via point SG1. There is an RF choke L1 between these points, with a decoupling capacitor C3 to 0V. Point SG1 is connected to point SG2 on the rectifier board via a section of the mode switch - this is so that the screen voltage can be reduced in the TUNE position to keep the anode current to about 100mA max - a nice feature. On the rectifier board SG2 is connected to point 210A and then via R11 to the diode/capacitor that generates this supply.

So I suggest that you check the voltage at SG2/210A. I'm not sure what it should be, but probably about 300V. If this is OK then I suspect L1 may be open circuit or C3 short circuit (or both - C3 going s/c might take out L1)

I believe that the -111V that you measured on the SG switch is correct - this is the voltage on the screen when the SG switch is OFF for neutralising.

Richard G3OTK

At 04:29 16/03/2006 +0000, you wrote:
>Hi Walt and the group,
>
>Ok took the voltage measurements you asked to see they are as follows.
>
>
>SG switch top -111
>center 0
>bottom 0
>
>Need I go on? All others are also 0
>
>pin 3 both tubes
>R5&R6
>SG point on board
>
>Also the manual I have must be different then yours I have one that
>says TS-530S/SP/D and says Korea market only? It is the service manual.
>Where to look next? ....Thanks John
>

>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

========================

[Non-text portions of this message have been removed]

6935. Need parts for 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 09:52:19 UTC
From: k5msy_jlg
Topic: 6935 Message: 6935

Looking for good digital readout board and mode switch for 830s. Tnx,
Jim - K5MSY

6936. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 10:00:42 UTC
From: Walt Breining
Topic: 6933 Message: 6936

John:
Either the rig has morphed or I am confused. Your first post said it was a 520 ? This one says that it is a 530.

I need to know which schematic to look at.

Walt N9WB
I need to know which schematic to look at.

----- Original Message -----
From: "JOHN" <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 15, 2006 11:29 PM
Subject: [TS-520_820_530_830] 530 NO OUTPUT

----- Original Message ----- (earlier)
From: "JOHN" <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 15, 2006 11:12 AM
Subject: [TS-520_820_530_830] 520 No Output

6937. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 16:23:52 UTC
From: JOHNQRZ@AOL.COM
Topic: 6933 Message: 6937

Walt,

There was a correction sent after my first post it is a 530s not a 520
sorry for the confusion.....John

[Non-text portions of this message have been removed]

6938. AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 19:48:18 UTC
From: Dave Franklin
Topic: 6938 Message: 6938

I picked up an AT-230 at the Charlotte Hamfest last weekend. It is missing the brown handle on the wattmeter range selector switch. They are not listed at East Coast Transistor. Anyone have one available or are these amongst the "unobtainum"?

73
Dave
KI4JSN

6939. TS-830 Bandswitch coupling

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-16 23:47:37 UTC
From: wohtex
Topic: 6939 Message: 6939

I read the file posted on changing the bandswitch coupling, was looking at mine and was wondering if I can just loosen the back set screws and then when I pull the bandswitch shaft out the coupling will come out with it, put the new one on and reinsert through the hole to the inside shaft???? or did I miss something in the instructions that would preclude this?

thanks
Bill

6940. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 01:36:01 UTC
From: JOHNQRZ@AOL.COM
Topic: 6933 Message: 6940

Richard and The Group,

SG2/210A 0 volts on both points everything on the board looks fine
nothing is burnt that I can see, same for the RF board I pulled it all seems
okeydokey.

[Non-text portions of this message have been removed]

6941. Re: [TS-520_820_530_830] AT-230 (Paddle part)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 04:26:28 UTC
From: james27613@att.net
Topic: 6941 Message: 6941

hi dave,

if I understand, the part you want is
called a paddle, it fits over the switch

from the ts-530 service manual, at-230 parts list

K23-0720-04 (L2) KNOB TS-180S $1.39

http://www.kenwoodparts.com

73 james ke4drn

6942. Re: TS-830 Bandswitch coupling

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 04:46:41 UTC
From: james27613
Topic: 6939 Message: 6942

hi bill,

I don't think you can pass the coupler through
the small hold in the final cage.

check this photo out, he has all the info on
how to do the swap.

http://www.k4eaa.com/examples.html

73 james ke4drn

6943. NTE QuickCross V 12

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 04:59:10 UTC
From: james27613
Topic: 6943 Message: 6943

hi,

http://www.nteinc.com/

for those on a fast internet connection,
you can download V 12 of NTE QuickCross
for windows no cost. you just have to
answer a few questions and you can d/l it.

A lot easier to search for replacement parts
and it links to the data sheets.

73 james ke4drn

6944. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 12:30:51 UTC
From: Walt Breining
Topic: 6933 Message: 6944

That would explain why the page numbers I gave you from my 520 manual did not match your manual.
It seems that you have no screen voltage. That comes from a board, probably called the HV board or something like that. The problem that I ran into is that I went to BAMA and downloaded the 530 user's manual. Part of the schematic was covered by a sheet of notes and the covered part is where the source for the screen voltage is.

So I went back to get the service manual. Now whenever I try to access the 530 file I get a page not available message. So I am trying to get a complete diagram to help you more.

Vy 73, Walt N9WB

John:
It seems that you have no screen voltage. That comes from a board, probably
----- Original Message -----
From: <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, March 16, 2006 11:23 AM
Subject: Re: [TS-520_820_530_830] 530 NO OUTPUT

>
>
> Walt,
>
> There was a correction sent after my first post it is a 530s not a
520
> sorry for the confusion.....John
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

>

6945. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 14:57:48 UTC
From: Walt Breining
Topic: 6933 Message: 6945

With very great thanks to Mr. Richard Harris, G3OTK I now have a very good copy of the manual and schematic for the TS-530. So we can continue.

For those who have just tuned in to the continuing saga of "[TS-520_820_530_830] 530 NO OUTPUT" John's TS-530 has no output. We have determined that he has no screen voltage.

John.

You have a board labeled "rectifier unit". This is the board that supplies the SG voltage to the SG switch. There is a point on this board labeled PD 2. Check the voltage at this point. Then check the voltage at SG1. Also measure the voltage at SG 1 and TUN. Do this with the mode switch in CW. No need to put the valves back in yet. This should be a + DC voltage so set your meter accordingly.

Vy 73, Walt N9WB

6946. Re: TS-830 Bandswitch coupling

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 15:20:29 UTC
From: wohtex
Topic: 6939 Message: 6946

Thanks for the input, when I changed it last night I found out you need to remove the shaft 1st so when you bring the coupling out of the hole you can tilt it upward to clear parts on the circuit board. Frankly I had more trouble getting those little spring clips back on than anything else.

73
Bill N5CCQ

6947. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:00:37 UTC
From: OneG @ The Taj Mahal
Topic: 6933 Message: 6947

Hi All::
K7GNO
New to your group..

I have a question??

Can some one explain what "valves" are from this statement..

Do this with the mode switch in CW. No
> need to put the valves back in yet.

I am usually pretty savvy on stuff but I am Clueless what the "valves" is..

Someone Please enlighten me..

Gene

Walt Breining wrote:
> With very great thanks to Mr. Richard Harris, G3OTK I now have a very good
> copy of the manual and schematic for the TS-530. So we can continue.
>
> For those who have just tuned in to the continuing saga of "
> [TS-520_820_530_830] 530 NO OUTPUT" John's TS-530 has no output. We have
> determined that he has no screen voltage.
>
> John.
>
> You have a board labeled "rectifier unit". This is the board that supplies
> the SG voltage to the SG switch. There is a point on this board labeled PD
> 2. Check the voltage at this point. Then check the voltage at SG1. Also
> measure the voltage at SG 1 and TUN. Do this with the mode switch in CW. No
> need to put the valves back in yet. This should be a + DC voltage so set
> your meter accordingly.
>
> Vy 73, Walt N9WB
>
>

6948. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:04:11 UTC
From: Ken Winterling
Topic: 6933 Message: 6948

Gene,

A vacuum tube is also known as as "valve".

Ken, WA2LBI

On 3/17/06, OneG @ The Taj Mahal <v12man@...> wrote:
> Hi All::
> K7GNO
> New to your group..
>
> I have a question??
>
> Can some one explain what "valves" are from this statement..
>
> Do this with the mode switch in CW. No
> > need to put the valves back in yet.
>
>
> I am usually pretty savvy on stuff but I am Clueless what the "valves" is..
>
> Someone Please enlighten me..
>
> Gene
>
>
>
> Walt Breining wrote:
> > With very great thanks to Mr. Richard Harris, G3OTK I now have a very good
> > copy of the manual and schematic for the TS-530. So we can continue.
> >
> > For those who have just tuned in to the continuing saga of "
> > [TS-520_820_530_830] 530 NO OUTPUT" John's TS-530 has no output. We have
> > determined that he has no screen voltage.
> >
> > John.
> >
> > You have a board labeled "rectifier unit". This is the board that supplies
> > the SG voltage to the SG switch. There is a point on this board labeled PD
> > 2. Check the voltage at this point. Then check the voltage at SG1. Also
> > measure the voltage at SG 1 and TUN. Do this with the mode switch in CW. No
> > need to put the valves back in yet. This should be a + DC voltage so set
> > your meter accordingly.
> >
> > Vy 73, Walt N9WB

6949. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:05:12 UTC
From: talx
Topic: 6933 Message: 6949

OneG @ The Taj Mahal wrote:
> Hi All::
> K7GNO
> New to your group..
>
> I have a question??
>
> Can some one explain what "valves" are from this statement..
>
> Do this with the mode switch in CW. No
> > need to put the valves back in yet.
>
>
> I am usually pretty savvy on stuff but I am Clueless what the "valves" is..
>
> Someone Please enlighten me..
>
> Gene
>
>
>
>
>
>
>
>
>
>
>
> Walt Breining wrote:
> > With very great thanks to Mr. Richard Harris, G3OTK I now have a very good
> > copy of the manual and schematic for the TS-530. So we can continue.
> >
> > For those who have just tuned in to the continuing saga of "
> > [TS-520_820_530_830] 530 NO OUTPUT" John's TS-530 has no output. We have
> > determined that he has no screen voltage.
> >
> > John.
> >
> > You have a board labeled "rectifier unit". This is the board that supplies
> > the SG voltage to the SG switch. There is a point on this board labeled PD
> > 2. Check the voltage at this point. Then check the voltage at SG1. Also
> > measure the voltage at SG 1 and TUN. Do this with the mode switch in CW. No
> > need to put the valves back in yet. This should be a + DC voltage so set
> > your meter accordingly.
> >

> > Vy 73, Walt N9WB
> >
> >
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>
Tubes

6950. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:23:26 UTC
From: JOHNQRZ@AOL.COM
Topic: 6933 Message: 6950

Ok Walt will do I will be gone till Sunday morning but will let you all know what I find and again thanks for all the help.....73.....till then....John

[Non-text portions of this message have been removed]

6951. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:28:41 UTC
From: Richard Harris
Topic: 6933 Message: 6951

Gene,

"Valves" are what vacuum tubes were always known as in the UK. No one in the UK would have known what a "vacuum tube" was apart from hams brought up on the ARRL Handbook and HF comms!

The UK name probably dates back to the first vacuum tubes circa 1900 which were diodes and hence one-way "valves" for AC.

Richard G3OTK

At 09:00 17/03/2006 -0700, you wrote:
>Hi All::
>K7GNO
>New to your group..
>
>I have a question??
>
>Can some one explain what "valves" are from this statement..
>
> Do this with the mode switch in CW. No
> > need to put the valves back in yet.
>
>
>I am usually pretty savvy on stuff but I am Clueless what the "valves" is..
>
>Someone Please enlighten me..
>
>Gene
>
>
>
>
>
>
>
>
>
>
>Walt Breining wrote:
> > With very great thanks to Mr. Richard Harris, G3OTK I now have a very good
> > copy of the manual and schematic for the TS-530. So we can continue.
> >
> > For those who have just tuned in to the continuing saga of "
> > [TS-520_820_530_830] 530 NO OUTPUT" John's TS-530 has no output. We have
> > determined that he has no screen voltage.

> >
> > John.
> >
> > You have a board labeled "rectifier unit". This is the board that supplies
> > the SG voltage to the SG switch. There is a point on this board labeled PD
> > 2. Check the voltage at this point. Then check the voltage at SG1. Also
> > measure the voltage at SG 1 and TUN. Do this with the mode switch in CW. No
> > need to put the valves back in yet. This should be a + DC voltage so set
> > your meter accordingly.
> >
> > Vy 73, Walt N9WB
> >
> >
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,

Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6952. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:49:28 UTC
From: Walt Breining
Topic: 6933 Message: 6952

Valves are tubes.
Walt
----- Original Message -----
From: "OneG @ The Taj Mahal" <v12man@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 17, 2006 11:00 AM
Subject: Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

> Hi All::
> K7GNO
> New to your group..
>
> I have a question??
>
> Can some one explain what "valves" are from this statement..
>
> Do this with the mode switch in CW. No
> > need to put the valves back in yet.
>
>
> I am usually pretty savvy on stuff but I am Clueless what the "valves"
is..
>
> Someone Please enlighten me..
>
> Gene
>
>
>
>
>
>
>
>
>
>
>
> Walt Breining wrote:
> > With very great thanks to Mr. Richard Harris, G3OTK I now have a very
good
> > copy of the manual and schematic for the TS-530. So we can continue.
> >
> > For those who have just tuned in to the continuing saga of "
> > [TS-520_820_530_830] 530 NO OUTPUT" John's TS-530 has no output. We have
> > determined that he has no screen voltage.
> >

> > John.
> >
> > You have a board labeled "rectifier unit". This is the board that
supplies
> > the SG voltage to the SG switch. There is a point on this board labeled
PD
> > 2. Check the voltage at this point. Then check the voltage at SG1. Also
> > measure the voltage at SG 1 and TUN. Do this with the mode switch in CW.
No
> > need to put the valves back in yet. This should be a + DC voltage so set
> > your meter accordingly.
> >
> > Vy 73, Walt N9WB
> >
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6953. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 16:08:42 UTC
From: OneG @ The Taj Mahal
Topic: 6933 Message: 6953

Ken Winterling wrote:
> Gene,
>
> A vacuum tube is also known as as "valve".
>
> Ken, WA2LBI

Thanks

I'm an x Mechanic & Electrical Specialist & I just wasn't gettin it :)

makes sense Now..

Geno

6954. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 20:00:12 UTC
From: OneG @ The Taj Mahal
Topic: 6933 Message: 6954

Walt Breining wrote:
> Valves are tubes.
> Walt
THANKS

6955. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 20:01:40 UTC
From: OneG @ The Taj Mahal
Topic: 6933 Message: 6955

OneG @ The Taj Mahal wrote:
> Ken Winterling wrote:
>
>>Gene,
>>
>>A vacuum tube is also known as as "valve".
>>
>>Ken, WA2LBI
>
Thanks So much..
A guy learns new things all the time...

6956. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 23:09:55 UTC
From: Dave and Loraine
Topic: 6933 Message: 6956

Hi and welcome to a great group.

The difference between a valve and a tube is that a valve has an anode instead of a plate.
In the UK it rains a lot, so anodes are used to neutralise raindrop resonance.
The gold edition is fitted with both.

All the best for April 1st.
Dave F4EYK

6957. Re: [TS-520_820_530_830] AT-230 (Paddle part)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 23:18:41 UTC
From: Dave Franklin
Topic: 6941 Message: 6957

Thanks James! The paddle is on order.

I downloaded and printed a copy of the Service Manual for future reference.

73,
Dave

----- Original Message -----
From: <james27613@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, March 16, 2006 11:26 PM
Subject: Re: [TS-520_820_530_830] AT-230 (Paddle part)

> hi dave,
>
> if I understand, the part you want is
> called a paddle, it fits over the switch
>
> from the ts-530 service manual, at-230 parts list
>
> K23-0720-04 (L2) KNOB TS-180S $1.39
>
> http://www.kenwoodparts.com
>
>
> 73 james ke4drn

6958. Re: Buying these Hybrid radios and packing...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 00:10:05 UTC
From: pchapman9202003
Topic: 6906 Message: 6958

I was really lucky. My 820s was shipped in the original box with the original foam and overfilled with peanut foam. The original box was wrapped in fat bubble wrap where the tape could be removed without damage to the original box. The original box was placed inside of another box with air bags and overfilled with peanuts to fill in the gaps. It had both manuals with it, and on the inside cover, the service dates, who did it and what was done. I would not think twice about buying from this guy again, and would in fact seek him out. I think I paid about ten bucks over the going rate for shipping, plus insurance, which he required both. The rig was a 9.8 on appearance, and the only thing that I have done to it in four years is replace the T/R relay. It still has the original 2000 tubes in it that crank almost 100 watts out.

Like I said, I was really lucky. The seller.... was really a pro.

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi,
>
> Not everyone out there understands what
> double boxed means !
>
> I asked the seller of the ts-520 station
> I purchased to double box it and send the
> accessories seperate box and I would pay for it.
> No problem she says, however, the radio was sent in
> one box and other gear in the other !
>
> Luck for me the UPS crews must have been hams,
> all arrived in working condition, in used walmart
> boxes with cruched newspaper inside.
>
> 73 james
>

6959. Weak RF

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 01:56:37 UTC
From: Bill Barron
Topic: 6959 Message: 6959

Rig=TS-520SE.

Have tuned up my old 520SE; dummy load.
Appears to be working fine, but RF
out measures only 55 watts max at TUNE and CW. ALC and HV all ok
per specs although my 'load' control needs to be set at high 2pm
position and 'plate' at top of selected band.
Drive control maxs at 1pm slot. Carrier at 12 o'clock, mic at 3
setting.

Is this just old, weak 6146's? Not a real issue as I plan to use rig
to drive amp on upgrade -- but would like to get 520SE in mint
shape. Output looks ok on my sm-220. Tune-up used old Drake HF filter.

Bill W1WAB

6960. Way off topic sorta

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 02:14:01 UTC
From: pchapman9202003
Topic: 6960 Message: 6960

I never gave myself the chance to go after the extra cuz I always felt that a college degree was more important. After a 35+ year break of dropping out of college I finished my BSM last week at age 56. Finally, I can go attack that blasted extra in my down time before starting up the Masters degree.

6961. Re: [TS-520_820_530_830] Valves?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 03:53:07 UTC
From: catboat15@aol.com
Topic: 6961 Message: 6961

In a message dated 3/17/2006 6:44:25 P.M. Pacific Standard Time,
TS-520_820_530_830@yahoogroups.com writes:

Can some one explain what "valves" are from this statement

Valve is British for what we call tubes. Actually, although I am an American
the term "valve" does describe the action of a tube better. Look at a normal
triode, the grid acts as the gate in a valve to control the flow of current
from the cathode to the plate.
I build model steam engines from British magazines and plans and there are a
lot of terms that you need a translation table to read what the Brits write.
LOL.
As one English friend told me, You Americans drive on the parkway and park
on the drive way while we do it the other way around. They say "round about"
for what we call a "clover leaf" and so on.

[Non-text portions of this message have been removed]

6962. TS-830S AGC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 03:37:58 UTC
From: joe sloss
Topic: 6962 Message: 6962

A 830S that followed me home after a local hamfest works fine in all respects except SLOW AGC which is the same as FAST; ie does not seem to be slow.

Any ideas.

Thanks
Joe k7mks

[Non-text portions of this message have been removed]

6963. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 05:00:40 UTC
From: JOHNQRZ@AOL.COM
Topic: 6933 Message: 6963

Walt and The Group ,

Ok will be home this weekend after all so here is the update.

SG1 PD2 TUN all 0 volts Zip Zero Zilch Happy Saint Paddy's to all.....John

[Non-text portions of this message have been removed]

6964. Re: [TS-520_820_530_830] 530 NO OUTPUT~~~~ Please Explain

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-17 20:01:13 UTC
From: OneG @ The Taj Mahal
Topic: 6933 Message: 6964

Richard Harris wrote:
> Gene,
>
> "Valves" are what vacuum tubes were always known as in the UK. No one in
> the UK would have known what a "vacuum tube" was apart from hams brought up
> on the ARRL Handbook and HF comms!
>
> The UK name probably dates back to the first vacuum tubes circa 1900 which
> were diodes and hence one-way "valves" for AC.
>
> Richard G3OTK
>Thanks So much..
A guy learns new things all the time...

Geno

6965. Re: NTE QuickCross V 12

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 07:21:05 UTC
From: Ravenswood
Topic: 6943 Message: 6965

If you want to skip the whole fill-in-the-form part, download it directly from here: http://www.nteinc.com/qc12/qc12setup.exe

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi,
>
> http://www.nteinc.com/
>
> for those on a fast internet connection,
> you can download V 12 of NTE QuickCross
> for windows no cost. you just have to
> answer a few questions and you can d/l it.
>
> A lot easier to search for replacement parts
> and it links to the data sheets.
>
> 73 james ke4drn
>

6966. Valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 15:12:57 UTC
From: Bill Hall
Topic: 6966 Message: 6966

EEEENOUGH on Valves.

6967. Re: [TS-520_820_530_830] Weak RF

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 19:28:11 UTC
From: Walt Breining
Topic: 6959 Message: 6967

Bill:
I noticed that you were only getting 55 watts at both tune and CW? If this is correct, it is a clue that you may have screen voltage problems.

OOPS, I noted that you said the Carrier control was at 12:00. Put it fully clockwise.
If you have a Drake low pass filter in line. remove it, at for now.

If it still reads low, please check the following:

Be sure that the carrier control is fully up.
Be sure that you have the Drive peaked for maximum with the multimeter on the rig set for ALC.
Start with the load control midway, peak the Plate then peak the load.
Repeat this process a couple of times. What is the output on 40 meters compared to 28.300 on 10 meters ?

Are you sure that the watt meter is reading correctly? Are you sure that all jumpers from the rig to the watt meter and from the watt meter to the dummy load are good?

Bad resistors on the HV board can cause this problem. After you respond to the above I will go into more detail. Do you have a volt meter available ?

----- Original Message -----
From: "Bill Barron" <W1WAB@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 17, 2006 8:56 PM
Subject: [TS-520_820_530_830] Weak RF

> Rig=TS-520SE.
>
> Have tuned up my old 520SE; dummy load.
> Appears to be working fine, but RF
> out measures only 55 watts max at TUNE and CW. ALC and HV all ok
> per specs although my 'load' control needs to be set at high 2pm
> position and 'plate' at top of selected band.
> Drive control maxs at 1pm slot. Carrier at 12 o'clock, mic at 3
> setting.
>
> Is this just old, weak 6146's? Not a real issue as I plan to use rig
> to drive amp on upgrade -- but would like to get 520SE in mint
> shape. Output looks ok on my sm-220. Tune-up used old Drake HF filter.
>
> Bill W1WAB
>
>

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6968. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 19:56:20 UTC
From: Walt Breining
Topic: 6933 Message: 6968

On the rectifer board check 210 A. 210 B, Then switch your meter to AC volts and check AC 210.

Vy 73, Walt N9WB

----- Original Message -----
From: <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 18, 2006 12:00 AM
Subject: Re: [TS-520_820_530_830] 530 NO OUTPUT

>
>
> Walt and The Group ,
>
> Ok will be home this weekend after all so here is the update.
>
> SG1 PD2 TUN all 0 volts Zip Zero Zilch Happy Saint Paddy's to all.....John
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6969. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-18 21:28:04 UTC
From: JOHNQRZ@AOL.COM
Topic: 6933 Message: 6969

Walt,

210A=0
210B=248v
AC210=183.7

I will be in the shack the rest of the day...Thanks for your help.

[Non-text portions of this message have been removed]

6970. WARC Modification on the TS-830S Confusion

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-19 08:12:09 UTC
From: Daniel
Topic: 6970 Message: 6970

Hi to all

I've a small confusion on my side about the WARC Mod on the TS-830S. There are two article here:

1. In early TS-830's, the WARC transmit was not enabled.
If this is the case, solder a jumper wire from Pin 12 of IC-23 to ground on the DIGITAL UNIT PCB. Ground can be obtained at Pin 8 of IC-4.

2. POWER OFF AND UNPLUGGED! Remove top and bottom covers of the rig. Rig placed on it's left side so that the side with the final tubes is UP and the front panel is to your LEFT
(to orient the rig to the picture). Now locate connector 7 on the AF unit. This is the PC board on the upper left as you face the bottom of the rig. Look for the blue wire on the third connector from the left- bottom edge of the AF unit. In the photo you can see that it is the 4th wire from the left on connector 7. Cut the wire, then insulate the ends with heat
shrink.

So which one is the one who is running properly?

Example 1.
I didn't find the DIGITAL UNIT PCB. Perhaps it is named different (which Board number?)

Example 2.
Which Board?

Daniel, HB9DDS

6971. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-19 11:07:14 UTC
From: Walt Breining
Topic: 6933 Message: 6971

John:

Voltage should flow through R-11 from 210 B To 210 A. R-11 is a 470 ohm resistor on the rectifier board. Since you get 0 V at 210A and 248 V at 210 B, the resistor is open or there is a bad connection on the bottom of the rectifier board. You should replace this resistor. But don't turn on the radio yet!

Before you do so, If the resistor is open and it is not a bad connection, there is a reason why this resistor failed! While it could have failed from running warm for years, it is more likely there is a short somewhere on the 210A side of this resistor causing it to fail.

Next step:

The following tests are done with the radio unplugged. and discharged.

One place, R-11, 210 A feeds is the screen of the 12BY7 driver tube on the RF board. A likely suspect is C-73 being shorted. This is a .01 uf capacitor at 500 volt rating.

You can check it in the circuit with an ohm meter. If it shows less than 1000 ohms across it, you will then have to take it out to check it. Temporarily turn the SG switch off to check it in the circuit. Don't forget to return the SG switch to on after checking. It should show a open circuit when removed from the board.

Replace it if it is shorted. Be sure that the replacement is rated for at least 500 V.

To find it, if you are looking down on the RF board you will see the 12BY7 to the right of this tube there are two rows of can type coils. The ones closest to the tube are labeled AUX. These are L 103 and L 23. Just off the end (side) of these coils in the direction of the tube is C-73. This is not the capacitor in the space between these two coils.

210 A also feeds C-86.on the IF board. This is a 22 uf 350 V capacitor on the IF board. This is a can type capacitor. It is the filter for the screen supply.

To test this capacitor, find plug #3 on the IF board and unplug it. It is near C-86. Locate pin 1 of plug #3 labeled 210 A. and pin 2 labeled G. Temporarily short these two pins together with a screwdriver for a couple of seconds. Place your ohm meter in RX1 or RX 10 and place the black wire on the 210 A pin. Place the red wire to the second pin next to it labeled G for ground or the top of the capacitor can if it is bare. Yes, I said the Black wire on pin 1/ 210A. Observe the meter. At first it will show a short or

very low resistance, but then the resistance will rise until it is quite high. To double check this, short the pins as described above and repeater the above procedure. If it shows a very low resistance and stays that way, it will need to be replaced. Be sure that your ohm meter leads are not touching together giving you a false reading.

Replace C-86 if it appears to be shorted. If you do replace C-86 you may wish to replace C-87, C-88, and C-89, however C-86 is the only one that is associated with the 210 A source. Be sure that the replacement is rated for at least 350 V.

Vy 73, Walt N9WB

----- Original Message -----
From: <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 18, 2006 4:28 PM
Subject: Re: [TS-520_820_530_830] 530 NO OUTPUT

>
>
> Walt,
>
> 210A=0
> 210B=248v
> AC210=183.7
>
> I will be in the shack the rest of the day...Thanks for your help.

6972. Re: NTE QuickCross V 12

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-20 00:51:21 UTC
From: james27613
Topic: 6943 Message: 6972

hi frank,

good link, the only time I get any email from
nte is when the new version is released.

I have the program on an older laptop that
sits on the workbench and has no internet on it.

73 james ke4drn

6973. Re: WARC Modification on the TS-830S Confusion

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-20 01:10:28 UTC
From: james27613
Topic: 6970 Message: 6973

Hi Daniel,

in the files section, take a look at
WARC TX ENABLE.pdf

it has photos to guide you to make the 'cut' !

I did the same procedure (before I fould this group).

73 james ke4drn

6974. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-20 01:31:33 UTC
From: JOHNQRZ@AOL.COM
Topic: 6933 Message: 6974

Walt

Ok great job thanks for your help back up and running. R11 bad joints on both sides I don't know how it ever worked both caps seem to be ok I tested them according to your directions.The radio has low output around 75 watts but I think the tubes are a little flat .I know they have been abused by the owner for some time as he did not have a copy of the manual and did not know how to load it,I won't even go into how he was doing it! I will give him a copy of both the instruction and service manuals.

Again thanks for all the help I really learned a lot and had fun doing it.....best ..73...John

[Non-text portions of this message have been removed]

6975. RE: WARC Modification on the TS-830S Confusion

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-20 03:09:49 UTC
From: Bruce Wright
Topic: 6970 Message: 6975

Daniel...

Follow instruction set number 2: Cut the wire, but I had thought its color was purple...Maybe not, it was a long time ago when I cut mine.

"Which Board?...The PC board is on the upper left as you face the bottom of the rig when the radio is oriented as in the instruction set you have repeated in your posting below.

Be careful not to damage speaker wires when you remove top cover.

Bruce
WC5CW

> Date: Sun, 19 Mar 2006 08:12:09 -0000
> From: "Daniel" <schaeffler@...>
>Subject: WARC Modification on the TS-830S Confusion
>
>Hi to all
>
>I've a small confusion on my side about the WARC Mod on the TS-830S. There
>are two
>article here:
>
>1. In early TS-830's, the WARC transmit was not enabled.
>If this is the case, solder a jumper wire from Pin 12 of IC-23 to ground on
>the DIGITAL
>UNIT PCB. Ground can be obtained at Pin 8 of IC-4.
>
>2. POWER OFF AND UNPLUGGED! Remove top and bottom covers of the rig. Rig
>placed on
>it's left side so that the side with the final tubes is UP and the front
>panel is to your LEFT
>(to orient the rig to the picture). Now locate connector 7 on the AF unit.
>This is the PC
>board on the upper left as you face the bottom of the rig. Look for the
>blue wire on the
>third connector from the left- bottom edge of the AF unit. In the photo you
>can see that it
>is the 4th wire from the left on connector 7. Cut the wire, then insulate
>the ends with heat
>shrink.
>
>
>So which one is the one who is running properly?
>

>Example 1.
>I didn't find the DIGITAL UNIT PCB. Perhaps it is named different (which
>Board number?)
>
>Example 2.
>Which Board?
>
>Daniel, HB9DDS
>

6976. Re: [TS-520_820_530_830] 530 NO OUTPUT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-20 09:50:35 UTC
From: Walt Breining
Topic: 6933 Message: 6976

If R-11 has been hot, it could have increased in value. This would cause the screen voltage to be low and thus the output low.

If you think that the tubes are weak, go to this groups home page, TS-520_820_530_830, go to links, and read the article on testing the finals. This the Coors Bill method. He works on these things all or the time.

Also be sure that your watt meter is reading right and that the carrier control is fully up when peaking and measuring the output. Incorrect watt meters cause a lot of needless worry.

Put a drop of sewing machine oil or Mobile one in all the band switch bushings. Particularly the ones after the coupling that leads into the final section. If these get stiff, the coupling will break.

Glad that you got it running. It is a good rig.

Vy 73, Walt N9WB

----- Original Message -----
From: <JOHNQRZ@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 19, 2006 8:31 PM
Subject: Re: [TS-520_820_530_830] 530 NO OUTPUT

>
>
> Walt
>
> Ok great job thanks for your help back up and running. R11 bad joints
on
> both sides I don't know how it ever worked both caps seem to be ok I
tested
> them according to your directions.The radio has low output around 75
watts
> but I think the tubes are a little flat .I know they have been abused by
the
> owner for some time as he did not have a copy of the manual and did not
know
> how to load it,I won't even go into how he was doing it! I will give him
a copy
> of both the instruction and service manuals.
>
>
> Again thanks for all the help I really learned a lot and had fun doing
> it.....best ..73...John
>

6977. New 830s Owner - How Do I Determine Wattage Output?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 02:49:33 UTC
From: Kevin Keyes
Topic: 6977 Message: 6977

My present to myself for upgrading to General recently was a TS-830s. Everything I read about this rig was outstanding. I have been operating it for about a week now with good results but can't figure out how to tell from the meter how many watts I'm putting out. Can anybody help me out?

Thanks in advance for the assistance.

Kevin - KI4KFS

6978. Re: [TS-520_820_530_830] New 830s Owner - How Do I Determine Wattage Output?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 03:32:00 UTC
From: w3iz
Topic: 6977 Message: 6978

Hi kevin.
Congratulations on the upgrade and the new radio.
In the RF position the meter give a relative output reading. There is no scale for power out. The manual says that the rig should be adjusted for a 2/3 deflection of the needle in the RF position.

Always check the IP current when final tuning the rig.

If you take the IP current in mA and multiply by the HV you will get the input power to the final stage. Your output is aproxamately 1/2 of the input power.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "Kevin Keyes" <kskeye@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 20, 2006 9:49 PM
Subject: [TS-520_820_530_830] New 830s Owner - How Do I Determine Wattage Output?

> My present to myself for upgrading to General recently was a TS-830s.
> Everything I read about this rig was outstanding. I have been
> operating it for about a week now with good results but can't figure
> out how to tell from the meter how many watts I'm putting out. Can
> anybody help me out?
>
> Thanks in advance for the assistance.
>
> Kevin - KI4KFS
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>

6979. R: New 830s Owner - How Do I Determine Wattage Output?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 08:05:57 UTC
From: P. Coppin
Topic: 6977 Message: 6979

Congratulations for upgrading and for TS-830. Three months ago I bought my first TS-830. I tested lots of rigs in about 30 years of radio ham but I am very impressed as for the 830. Clear, fine audio and outstanding transmitting quality. GREAT purchasing.

73

Paul i8ixo

Da: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Per conto di Kevin Keyes
Inviato: martedì 21 marzo 2006 3.50
A: TS-520_820_530_830@yahoogroups.com
Oggetto: [POSSIBILE SPAM][TS-520_820_530_830] New 830s Owner - How Do I Determine Wattage Output?

My present to myself for upgrading to General recently was a TS-830s. Everything I read about this rig was outstanding. I have been operating it for about a week now with good results but can't figure out how to tell from the meter how many watts I'm putting out. Can anybody help me out?

Thanks in advance for the assistance.

Kevin - KI4KFS

[Non-text portions of this message have been removed]

6980. Re: [TS-520_820_530_830] New 830s Owner - How Do I Determine Wattage Output?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 09:04:54 UTC
From: Walt Breining
Topic: 6977 Message: 6980

The multimeter in the radio does not have a watt meter function. You should get a good quality watt meter.

Vy 73, Walt N9WB

----- Original Message -----
From: "Kevin Keyes" <kskeye@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 20, 2006 9:49 PM
Subject: [TS-520_820_530_830] New 830s Owner - How Do I Determine Wattage Output?

> My present to myself for upgrading to General recently was a TS-830s.
> Everything I read about this rig was outstanding. I have been
> operating it for about a week now with good results but can't figure
> out how to tell from the meter how many watts I'm putting out. Can
> anybody help me out?
>
> Thanks in advance for the assistance.
>
> Kevin - KI4KFS
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

6981. TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 13:46:13 UTC
From: steveb84us
Topic: 6981 Message: 6981

Hello to all. This is my first post to the group. I was a long time owner of a TS-530S. A few weeks ago, I picked up a nice looking TS-830S. Last week it seems to have developed a problem on warm-up. For the first 5 minutes of warm-up, the frequency jumps up and down rapidly about as much as a 1.5 kc. After that, the frequency stability is rock solid. Is this something typical or the sign of worse things to come? Any things to look for to remedy the problem?

Thanks,

Steve
N9SB

6982. Re: [TS-520_820_530_830] TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 14:09:46 UTC
From: Stephen Goldberg
Topic: 6981 Message: 6982

Tighten down the mounting screws on the low voltage regulator board. Even
better, put star washers on the screws under the board.

Steve W4IMF

----- Original Message -----
From: "steveb84us" <steveb84@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 21, 2006 8:46 AM
Subject: [TS-520_820_530_830] TS-830S Frequency Jump

> Hello to all. This is my first post to the group. I was a long time
> owner of a TS-530S. A few weeks ago, I picked up a nice looking TS-
> 830S. Last week it seems to have developed a problem on warm-up. For
> the first 5 minutes of warm-up, the frequency jumps up and down
> rapidly about as much as a 1.5 kc. After that, the frequency
> stability is rock solid. Is this something typical or the sign of
> worse things to come? Any things to look for to remedy the problem?
>
> Thanks,
>
> Steve
> N9SB
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.2.6/286 - Release Date: 3/20/06

6983. Re: [TS-520_820_530_830] TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 15:00:03 UTC
From: Richard Harris
Topic: 6981 Message: 6983

Steve,

This was the subject of a Kenwood Service Bulletin ASB0840.

http://ham.connect.fi/tekniikka/kenwood/AmateurServiceBulletins/ASB0840.JPG

Richard G3OTK

At 13:46 21/03/2006 +0000, you wrote:
>Hello to all. This is my first post to the group. I was a long time
>owner of a TS-530S. A few weeks ago, I picked up a nice looking TS-
>830S. Last week it seems to have developed a problem on warm-up. For
>the first 5 minutes of warm-up, the frequency jumps up and down
>rapidly about as much as a 1.5 kc. After that, the frequency
>stability is rock solid. Is this something typical or the sign of
>worse things to come? Any things to look for to remedy the problem?
>
>Thanks,
>
>Steve
>N9SB
>
>
>
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.

> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6984. TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 16:01:24 UTC
From: Bill Hall
Topic: 6981 Message: 6984

Might the procedure described in Kenwood Service Bulletin ASB0840 also apply to the TS-820.

73's
Bill KZ5CW

6985. Re: [TS-520_820_530_830] TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 16:38:26 UTC
From: Richard Harris
Topic: 6981 Message: 6985

Bill,

ASB0840 refers specifically to the TS830. However, ASB0024 deals with a
variety of problems on the TS820, one of which is frequency instability
(item 14 see
http://ham.connect.fi/tekniikka/kenwood/AmateurServiceBulletins/ASB0024B.JPG).

There are 9 Service Bulletins for the 820/820S.

Richard G3OTK

At 16:01 21/03/2006 +0000, you wrote:
>Might the procedure described in Kenwood Service Bulletin ASB0840 also
>apply to the TS-820.
>
>73's
>Bill KZ5CW
>
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>

> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

6986. Re: [TS-520_820_530_830] TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 18:22:34 UTC
From: Bill Hall
Topic: 6981 Message: 6986

Thanks very much Richard. Look for you on the air.

73's
Bill KZ5CW

----- Original Message ----
From: Richard Harris <rjharris@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, March 21, 2006 10:38:26 AM
Subject: Re: [TS-520_820_530_830] TS-830S Frequency Jump

Bill,

ASB0840 refers specifically to the TS830. However, ASB0024 deals with a
variety of problems on the TS820, one of which is frequency instability
(item 14 see
http://ham.connect.fi/tekniikka/kenwood/AmateurServiceBulletins/ASB0024B.JPG).

There are 9 Service Bulletins for the 820/820S.

Richard G3OTK

At 16:01 21/03/2006 +0000, you wrote:
>Might the procedure described in Kenwood Service Bulletin ASB0840 also
>apply to the TS-820.
>
>73's
>Bill KZ5CW
>
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------

>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6987. Thanks to this group!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 22:08:18 UTC
From: dslund817
Topic: 6987 Message: 6987

Just wanted to thank all of you in this group. My TS-530SE developed a problem (blown HV cap) and I was able to find the needed parts and do the repair just from the instructions I found on this group. Thanks! :) Now I need to find me a VTVM to do an alignment on the thing.

David KB5DRJ

6988. Re: TS-830S Frequency Jump

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-21 22:17:03 UTC
From: steveb84us
Topic: 6981 Message: 6988

Thanks everyone for the good information. Good to know that it is
something that I should be able to tackle myself.

Steve N9SB

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>
> Steve,
>
> This was the subject of a Kenwood Service Bulletin ASB0840.
>
>
http://ham.connect.fi/tekniikka/kenwood/AmateurServiceBulletins/ASB08
40.JPG
>
> Richard G3OTK
>
>
> At 13:46 21/03/2006 +0000, you wrote:
> >Hello to all. This is my first post to the group. I was a long
time
> >owner of a TS-530S. A few weeks ago, I picked up a nice looking
TS-
> >830S. Last week it seems to have developed a problem on warm-up.
For
> >the first 5 minutes of warm-up, the frequency jumps up and down
> >rapidly about as much as a 1.5 kc. After that, the frequency
> >stability is rock solid. Is this something typical or the sign of
> >worse things to come? Any things to look for to remedy the
problem?
> >
> >Thanks,
> >
> >Steve
> >N9SB
> >
> >
> >
> >
> >
> >
> >
> >
> >SPONSORED LINKS

> ><http://groups.yahoo.com/gads?
t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+suppl
y&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
> >radio
> ><http://groups.yahoo.com/gads?
t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+sup
ply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
> >hobby
> ><http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
> >and craft supply
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> > "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-
520_820_530_830" on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> > <mailto:TS-520_820_530_830-unsubscribe@...m?
subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>
> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267
> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>

> Web site www.pipstechnology.com
>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain
information
> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation
to whom
> it is addressed. If you are not the intended recipient it is
strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>

6989. Re: Way off topic sorta

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-22 20:13:22 UTC
From: Roberto Baca Barnard
Topic: 6960 Message: 6989

Congrats to you and welcome!!
-- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
<p_chap@...> wrote:
>
> I never gave myself the chance to go after the extra cuz I always
felt
> that a college degree was more important. After a 35+ year break of
> dropping out of college I finished my BSM last week at age 56.
Finally,
> I can go attack that blasted extra in my down time before starting
up
> the Masters degree.
>

6990. Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-22 20:16:54 UTC
From: budgiebob2005
Topic: 6990 Message: 6990

I have a 820m which i have no history on and it has obviously had some heavy use . It came to me in a trade as i have a 520 and thought it would have a use for spares. However as the receiver works well i decided to have a look at the no tx fault.As i could hear the tx at low level on another Rx I checked all voltages around pa ht etc all appear ok but no bias . I removed the pa pcb and all 4 of the cathode resistors are well and truly burnt [all o/c] Look original! have replaced these and will refit board latter . What is probable cause off failure? and things to check and watch for when i start up.I have read most things on site/web re 520 series so would welcome any advice I dont want to repeat this failure . BOB G8ACQ ps I have a mains Variac so I could bring up to 240v slowly if this is a advantage.

6991. Re: [TS-520_820_530_830] Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-22 21:01:48 UTC
From: Walt Breining
Topic: 6990 Message: 6991

Shorted tubes often take out the cathode resistors. If you are using the same tubes as when the failure occurred, you may want to check them on a tube tester. A tube tester won't usually tell you much, but it can sometimes catch shorts.

You may want to check the screen resistors on the HV board while you have it apart.. They change value with age and become unsoldered.

BTW was that a typo, I am not sure what an 820 m is.
Vy 73, Walt N9WB

----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 22, 2006 3:16 PM
Subject: [TS-520_820_530_830] Ts 820 m

> I have a 820m which i have no history on and it has obviously had some
> heavy use . It came to me in a trade as i have a 520 and thought it
> would have a use for spares. However as the receiver works well i
> decided to have a look at the no tx fault.As i could hear the tx at
> low level on another Rx I checked all voltages around pa ht etc all
> appear ok but no bias . I removed the pa pcb and all 4 of the cathode
> resistors are well and truly burnt [all o/c] Look original! have
> replaced these and will refit board latter . What is probable cause
> off failure? and things to check and watch for when i start up.I have
> read most things on site/web re 520 series so would welcome any advice
> I dont want to repeat this failure . BOB G8ACQ ps I have a mains
> Variac so I could bring up to 240v slowly if this is a advantage.
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

6992. Re: [TS-520_820_530_830] Low receive TS520S once properly tuned up ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-22 21:40:57 UTC
From: Bill Scurlock
Topic: 6923 Message: 6992

Hi Clint.

I don't have any documentation on the 520, but if it is similar to the 530 and 830, you probably need to perform an alignment on all the coils associated with the variable capacitors that are operated with the Drive control so that they "track" on Rx and Tx. The alignment procedure should be in the manual. After the alignment, you can check out each band again and see if they track between Rx and Tx. Hopefully there is a 520 expert monitoring these comments that could provide you with more specific advice. There are other possible issues that could be involved, but you should do the alignment as a first step. It might be that simple a solution. Good Luck.

73, Bill, K5GCW
----- Original Message -----
From: Phono-Guy
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 13, 2006 8:19 AM
Subject: [TS-520_820_530_830] Low receive TS520S once properly tuned up ??

I have this problem with a TS520S, all else seems to
work to specs, proper output, and HV readings.

The positon of the Drive control that results in
the best receive volume & deflection on the meter does
not correspond to the position of the Drive control
when this radio is tuned for maximum output.
So when this radio is all tuned up properly the
receive is down. Anyone have an idea where I should
start to try and find the cause of this problem?
Could it be related to the 12BY7A?

Appreciated any and all suggestions.

73,
Clint - WS1V

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

6993. Best bang for buck VOM?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 00:36:48 UTC
From: pchapman9202003
Topic: 6993 Message: 6993

It's time for me to upgrade the VOM I have been using. I am still using a 1 meg ohm analog VOM, which is still quite useful for testing antenna connections and other light duty stuff.

However I would like to be able to chase blown caps and other somewhat higher ends tasks, without spending any more than I have to, yet not have to do an upgrade later.

Suggestions?

6994. Re: [TS-520_820_530_830] Best bang for buck VOM?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 06:21:12 UTC
From: Kevin der Kinderen
Topic: 6993 Message: 6994

I'm a fan of the old Simpson 260 if you're looking for analog meters. For digital, take a look at sometihng like the 8010A bench meter.

I found both of these on Ebay at cheap prices. They were well used, but work well.

73,
Kev - K4VD

On 3/22/06, pchapman9202003 <p_chap@...> wrote:
>
> It's time for me to upgrade the VOM I have been using. I am still using
> a 1 meg ohm analog VOM, which is still quite useful for testing antenna
> connections and other light duty stuff.
>
> However I would like to be able to chase blown caps and other somewhat
> higher ends tasks, without spending any more than I have to, yet not
> have to do an upgrade later.
>
> Suggestions?
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

[Non-text portions of this message have been removed]

6995. Re: Low receive TS520S once properly tuned up ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 12:56:34 UTC
From: n3hkn
Topic: 6923 Message: 6995

I followed the alignment in the service manual and the Drive tracked
ok - xmt/recv.

Dick N3HKN

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hi Clint.
>
> I don't have any documentation on the 520, but if it is similar to
the 530 and 830, you probably need to perform an alignment on all the
coils associated with the variable capacitors that are operated with
the Drive control so that they "track" on Rx and Tx. The alignment
procedure should be in the manual. After the alignment, you can check
out each band again and see if they track between Rx and Tx.
Hopefully there is a 520 expert monitoring these comments that could
provide you with more specific advice. There are other possible
issues that could be involved, but you should do the alignment as a
first step. It might be that simple a solution. Good Luck.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Phono-Guy
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, March 13, 2006 8:19 AM
> Subject: [TS-520_820_530_830] Low receive TS520S once properly
tuned up ??
>
>
> I have this problem with a TS520S, all else seems to
> work to specs, proper output, and HV readings.
>
> The positon of the Drive control that results in
> the best receive volume & deflection on the meter does
> not correspond to the position of the Drive control
> when this radio is tuned for maximum output.
> So when this radio is all tuned up properly the
> receive is down. Anyone have an idea where I should
> start to try and find the cause of this problem?
> Could it be related to the 12BY7A?
>
> Appreciated any and all suggestions.
>
> 73,

> Clint - WS1V
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

6996. Re: [TS-520_820_530_830] Re: Low receive TS520S once properly tuned up ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 13:32:04 UTC
From: Joan de vk5kyo
Topic: 6923 Message: 6996

Hi Clint

It has been a while since I aligned my TS-520 and I think I ran into a similar problem you did. When I went to screw the covers into place I noticed the coil markings on the bottom cover did not line up with the circuit layout I was given with the radio.
Aligning the coils as per the designations on the cover restored the performance.
Funny thing is, the covers were removed for a transformer transplant, and many days went by and the important details on the cover were conveniently forgotton.
Did you follow the alignment steps from the Service manual and does the coil layout concur with whats on the cover?

Joan VK5KYO

n3hkn wrote:

>
> I followed the alignment in the service manual and the Drive tracked
> ok - xmt/recv.
>
> Dick N3HKN
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
> wrote:
> >
> > Hi Clint.
> >
> > I don't have any documentation on the 520, but if it is similar to
> the 530 and 830, you probably need to perform an alignment on all the
> coils associated with the variable capacitors that are operated with
> the Drive control so that they "track" on Rx and Tx. The alignment
> procedure should be in the manual. After the alignment, you can check
> out each band again and see if they track between Rx and Tx.
> Hopefully there is a 520 expert monitoring these comments that could
> provide you with more specific advice. There are other possible
> issues that could be involved, but you should do the alignment as a
> first step. It might be that simple a solution. Good Luck.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: Phono-Guy
> > To: TS-520_820_530_830@yahoogroups.com

> > Sent: Monday, March 13, 2006 8:19 AM
> > Subject: [TS-520_820_530_830] Low receive TS520S once properly
> tuned up ??
> >
> >
> > I have this problem with a TS520S, all else seems to
> > work to specs, proper output, and HV readings.
> >
> > The positon of the Drive control that results in
> > the best receive volume & deflection on the meter does
> > not correspond to the position of the Drive control
> > when this radio is tuned for maximum output.
> > So when this radio is all tuned up properly the
> > receive is down. Anyone have an idea where I should
> > start to try and find the cause of this problem?
> > Could it be related to the 12BY7A?
> >
> > Appreciated any and all suggestions.
> >
> > 73,
> > Clint - WS1V
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
> ---
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
> ---
> >
> >
> >
> > [Non-text portions of this message have been removed]

> >
>
>
>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.385 / Virus Database: 268.2.6/286 - Release Date: 20/03/2006
>
>

6997. Re: Low receive TS520S once properly tuned up ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 14:39:09 UTC
From: taephono
Topic: 6923 Message: 6997

Hi Bill,
Appreciate the reply to my inquiry...
I'll have to put this rig on the bench, and tweak the receive, and
hope that corrects the problem.
Othewise this rig put out properly, and it has the original tubes.

73,
Clint
WS1V
--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
<k5gcw@...> wrote:
>
> Hi Clint.
>
> I don't have any documentation on the 520, but if it is similar to
the 530 and 830, you probably need to perform an alignment on all the
coils associated with the variable capacitors that are operated with
the Drive control so that they "track" on Rx and Tx. The alignment
procedure should be in the manual. After the alignment, you can
check out each band again and see if they track between Rx and Tx.
Hopefully there is a 520 expert monitoring these comments that could
provide you with more specific advice. There are other possible
issues that could be involved, but you should do the alignment as a
first step. It might be that simple a solution. Good Luck.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Phono-Guy
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, March 13, 2006 8:19 AM
> Subject: [TS-520_820_530_830] Low receive TS520S once properly
tuned up ??
>
>
> I have this problem with a TS520S, all else seems to
> work to specs, proper output, and HV readings.
>
> The positon of the Drive control that results in
> the best receive volume & deflection on the meter does
> not correspond to the position of the Drive control
> when this radio is tuned for maximum output.
> So when this radio is all tuned up properly the
> receive is down. Anyone have an idea where I should
> start to try and find the cause of this problem?
> Could it be related to the 12BY7A?

>
> Appreciated any and all suggestions.
>
> 73,
> Clint - WS1V
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ---

>
>
>
> [Non-text portions of this message have been removed]
>

6998. Re: Low receive TS520S once properly tuned up ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 14:41:43 UTC
From: taephono
Topic: 6923 Message: 6998

Hi Joan,
Thanks for your reply to my inquiry.
I haven't pulled the cover off this rig yet, but once I get some
spare time I'll put it on the bench and see if I can tweak the
receive.
I'll get back to the group with my findings.

73,
Clint
WS1V

--- In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo
<VK5KYO@...> wrote:
>
> Hi Clint
>
> It has been a while since I aligned my TS-520 and I think I ran
into a
> similar problem you did. When I went to screw the covers into place
I
> noticed the coil markings on the bottom cover did not line up with
the
> circuit layout I was given with the radio.
> Aligning the coils as per the designations on the cover restored
the
> performance.
> Funny thing is, the covers were removed for a transformer
transplant,
> and many days went by and the important details on the cover were
> conveniently forgotton.
> Did you follow the alignment steps from the Service manual and does
the
> coil layout concur with whats on the cover?
>
> Joan VK5KYO
>
> n3hkn wrote:
>
> >
> > I followed the alignment in the service manual and the Drive
tracked
> > ok - xmt/recv.
> >
> > Dick N3HKN
> >

> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
<k5gcw@>
> > wrote:
> > >
> > > Hi Clint.
> > >
> > > I don't have any documentation on the 520, but if it is similar
to
> > the 530 and 830, you probably need to perform an alignment on all
the
> > coils associated with the variable capacitors that are operated
with
> > the Drive control so that they "track" on Rx and Tx. The
alignment
> > procedure should be in the manual. After the alignment, you can
check
> > out each band again and see if they track between Rx and Tx.
> > Hopefully there is a 520 expert monitoring these comments that
could
> > provide you with more specific advice. There are other possible
> > issues that could be involved, but you should do the alignment as
a
> > first step. It might be that simple a solution. Good Luck.
> > >
> > > 73, Bill, K5GCW
> > > ----- Original Message -----
> > > From: Phono-Guy
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Monday, March 13, 2006 8:19 AM
> > > Subject: [TS-520_820_530_830] Low receive TS520S once properly
> > tuned up ??
> > >
> > >
> > > I have this problem with a TS520S, all else seems to
> > > work to specs, proper output, and HV readings.
> > >
> > > The positon of the Drive control that results in
> > > the best receive volume & deflection on the meter does
> > > not correspond to the position of the Drive control
> > > when this radio is tuned for maximum output.
> > > So when this radio is all tuned up properly the
> > > receive is down. Anyone have an idea where I should
> > > start to try and find the cause of this problem?
> > > Could it be related to the 12BY7A?
> > >
> > > Appreciated any and all suggestions.
> > >
> > > 73,
> > > Clint - WS1V

> > >
> > > _____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection
around
> > > http://mail.yahoo.com
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
supply
> > >
> > >
> > >
> > ---

> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms of
> > Service.
> > >
> > >
> > >
> > ---

> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> > ---

> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
> >
> > * To unsubscribe from this group, send an email to:

> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> > --

> >
> >--

> >
> >No virus found in this incoming message.
> >Checked by AVG Free Edition.
> >Version: 7.1.385 / Virus Database: 268.2.6/286 - Release Date:
20/03/2006
> >
> >
>

6999. Power Voltage Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 16:57:19 UTC
From: Daniel
Topic: 6999 Message: 6999

Hello Folks

I own a TS-520SE. I can switch from 110V to 220V. We have here in switzerland about 230V. Is there a problem if I'm runnig 230V and the switch is at 220V? Should I rewire the transformer?

Any Ideas??

Daniel, HB9DDS

7000. Re: [TS-520_820_530_830] Power Voltage Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 18:21:55 UTC
From: Bill Hall
Topic: 6999 Message: 7000

Daniel. I measure 240-242 VAC in my shack and operate my TS520 and TS820 on that voltage. Have also operated both on 120 VAC. I have operated on 240 for five years.

73's
Bill KZ5CW

----- Original Message ----
From: Daniel <schaeffler@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, March 23, 2006 10:57:19 AM
Subject: [TS-520_820_530_830] Power Voltage Question

Hello Folks

I own a TS-520SE. I can switch from 110V to 220V. We have here in switzerland about 230V. Is there a problem if I'm runnig 230V and the switch is at 220V? Should I rewire the transformer?

Any Ideas??

Daniel, HB9DDS

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7001. Re: [TS-520_820_530_830] Power Voltage Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 19:03:12 UTC
From: Tibor (Tibi) Zentai
Topic: 6999 Message: 7001

********** REPLY SEPARATOR **********

On 2006.03.23. at 10:21 Bill Hall wrote:

>Daniel. I measure 240-242 VAC in my shack and operate my TS520 and TS820
>on that voltage. Have also operated both on 120 VAC. I have operated on
>240 for five years.
>
>73's
>Bill KZ5CW
>
>----- Original Message ----
>From: Daniel <schaeffler@...>
>To: TS-520_820_530_830@yahoogroups.com
>Sent: Thursday, March 23, 2006 10:57:19 AM
>Subject: [TS-520_820_530_830] Power Voltage Question
>
>Hello Folks
>
>I own a TS-520SE. I can switch from 110V to 220V. We have here in
>switzerland about 230V.
>Is there a problem if I'm runnig 230V and the switch is at 220V? Should I
>rewire the
>transformer?
>
>Any Ideas??
>
>Daniel, HB9DDS

Hello Daniel,

Mine is a TS-530SP has been operated on steady 230V 50 Hz for more than two years - most of the time in stand by (heater off if not on the air), day and night.

I have a mains transient protection (a special VDR device) to protect all electronic eqipment that I suggest all of you to use.

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

7002. Re: Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-23 19:55:03 UTC
From: budgiebob2005
Topic: 6990 Message: 7002

Walt The m series has AM, I belive for europe otherwise same.
Today i exchanged screen resistors as 1 was over 20% high . Tried
set again and the low voltage diodes in bridge started arcing so
Ireplaced these definitely poor joints and overheated in past . The
rx then ok other than s meter [receive]at half scale all time
unless reduce rf gain when as expected it rises. unable to zero with
pot. this is causing a simlar problem when I go to tx as readings
are all starting at half scale.Have you any ideas on s meter my cct
is very small and not clear .Did a Quick tune up all seemed ok
untill I again lost cathode resistors and 1 6146 was red hot other
normal? but no sign off any arcing in valves . Which valve do you
think is faulty /was red taking too much current because other not
working ? I will try 2 new valves when i get the meter correct.
Any Ideas on meter would help thanks BOB G8ACQ

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@...> wrote:
>
> Shorted tubes often take out the cathode resistors. If you are
using the
> same tubes as when the failure occurred, you may want to check
them on a
> tube tester. A tube tester won't usually tell you much, but it can
sometimes
> catch shorts.
>
> You may want to check the screen resistors on the HV board while
you have it
> apart.. They change value with age and become unsoldered.
>
> BTW was that a typo, I am not sure what an 820 m is.
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "budgiebob2005" <budgiebob@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, March 22, 2006 3:16 PM
> Subject: [TS-520_820_530_830] Ts 820 m
>
>
> > I have a 820m which i have no history on and it has obviously
had some
> > heavy use . It came to me in a trade as i have a 520 and thought
it
> > would have a use for spares. However as the receiver works well i

> > decided to have a look at the no tx fault.As i could hear the tx
at
> > low level on another Rx I checked all voltages around pa ht etc
all
> > appear ok but no bias . I removed the pa pcb and all 4 of the
cathode
> > resistors are well and truly burnt [all o/c] Look original! have
> > replaced these and will refit board latter . What is probable
cause
> > off failure? and things to check and watch for when i start
up.I have
> > read most things on site/web re 520 series so would welcome any
advice
> > I dont want to repeat this failure . BOB G8ACQ ps I have a mains
> > Variac so I could bring up to 240v slowly if this is a advantage.
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

7003. Re: Best bang for buck VOM?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 03:20:25 UTC
From: pchapman9202003
Topic: 6993 Message: 7003

I do not mind buying new and paying one time only...looking for a
decent fused digital.....

--- In TS-520_820_530_830@yahoogroups.com, "Kevin der Kinderen"
<kkinderen@...> wrote:
>
> I'm a fan of the old Simpson 260 if you're looking for analog
meters. For
> digital, take a look at sometihng like the 8010A bench meter.
>
> I found both of these on Ebay at cheap prices. They were well
used, but work
> well.
>
> 73,
> Kev - K4VD
>
> On 3/22/06, pchapman9202003 <p_chap@...> wrote:
> >
> > It's time for me to upgrade the VOM I have been using. I am
still using
> > a 1 meg ohm analog VOM, which is still quite useful for testing
antenna
> > connections and other light duty stuff.
> >
> > However I would like to be able to chase blown caps and other
somewhat
> > higher ends tasks, without spending any more than I have to, yet
not
> > have to do an upgrade later.
> >
> > Suggestions?
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >

> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

7004. Yahoo and cookie loads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 03:28:23 UTC
From: pchapman9202003
Topic: 7004 Message: 7004

They are adding more it seems like every day...point troll....now that sounds like one I want to let into my computer. Doubleclick has also gotten super aggressive here if you folks have not noticed, while security people that get server ID's to lesser protected groups are just being ignored.

Yahoo we luv ya but when you send us something called troll....it just does not make me think pleasant thoughts about it's purpose.

7005. Re: [TS-520_820_530_830] Power Voltage Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 11:15:59 UTC
From: Walt Breining
Topic: 6999 Message: 7005

In our area, Indiana USA, some of us have been using 235 to 240 volts for our amps and rigs because of better efficiency as opposed to 117V to 120V . It also gives us better regulation since the neutrals are not always the best in our area.

We have found it necessary to set up our rigs for 240 instead of 220. Unless we did this, the tube filament voltage ran high and the 12BY7 would sometimes go intermittently into self oscillation particularly on 15 meters.

This change is easily done. The transformer has two primary windings. They each have taps labeled 0, 100, and 120. In 120, the two 0 and the two 120 taps are wired in parallel. In 220 the two windings are wired in series except that the connection to one winding is to the 100 tap and the other is to the 120 tap. This gives a total of 220 V.

There is a wire that runs from a terminal on the 120 / 220 switch that is activated in the 220 mode and runs to the 100 terminal of one winding. I believe it is a white wire. It should be moved up to the 120 terminal on the same winding. This will now give a total of 240 v.

In the US, we run 235 to 240 V. Since you run 230 V I suppose if your actual voltage is 235 or higher, you should change it to 240 V. If your actual voltage is 120 to 125 you should leave it on 220 V. If it is between 225 and 235 volts, I suppose that it is a toss up.

Vy 73, Walt N9WB

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, March 23, 2006 11:57 AM
Subject: [TS-520_820_530_830] Power Voltage Question

> Hello Folks
>
> I own a TS-520SE. I can switch from 110V to 220V. We have here in
Switzerland about 230V.
> Is there a problem if I'm running 230V and the switch is at 220V? Should I
rewire the
> transformer?
>
> Any Ideas??
>
> Daniel, HB9DDS
>
>
>

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7006. Power Voltage Question part2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 11:18:11 UTC
From: Daniel
Topic: 7006 Message: 7006

Thanks for the replay but I have to more exatly. On the TS-520SE there is a Voltage switch which shows 110V/220V.

Some years ago we have lower voltage in switzerland, about 220V and now about 230V.
When I switch the voltage (switch) at the back of the TS-520SE to 220V, waht happendm when my really voltage inhouse is about 230V? Does the transformer overheat in some days?

In the service manual I have 2 version of the transformer: 110/220V and 220/240V Version. I can rewire the existent 110/220 to 220/240. But before I do that I have to know is it nesessery to do the rewiring!

Daniel , HB9DDS

7007. TS-820s no display, no recieve audio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 13:52:53 UTC
From: kasepta
Topic: 7007 Message: 7007

Hi everyone,
Unfortunately I have to blame myself for the damage. I made up a new External VFO cable and mis-wired it. I crossed pin 4 (12VAC) and 6 (9VDC Cal). Rig powered up briefly, with the frequency display wandering and then died.
Now I have no display and no recieve audio. So far I think my problem is in the AF-AVR board. I have 14VDC going in but the 9VDC is at around 6V and won't adjust via VR4. I disconnected all but the AF1 connector to see if the 9V was being pulled down, but that had no effect. If I disconnect the bottom connector from the display 9.000.0 is displayed, the display unit survived. Checking components with a meter I am suspecting Q7 2SA496 is shorted. Any help would be appreciated.

Thanks,

Karl
AB2TY

7008. Re: [TS-520_820_530_830] TS-820s no display, no recieve audio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 14:12:06 UTC
From: Richard Harris
Topic: 7007 Message: 7008

Hi Karl,

Data on the 2SA496 (Q7) can be found at
http://pdf1.alldatasheet.co.kr/datasheet-pdf/view/87361/TOSHIBA/2SA496.html

This may help you choose an alternative if this part is not available.

Richard G3OTK

At 13:52 24/03/2006 +0000, you wrote:
>Hi everyone,
>Unfortunately I have to blame myself for the damage. I made up a new
>External VFO cable and mis-wired it. I crossed pin 4 (12VAC) and 6
>(9VDC Cal). Rig powered up briefly, with the frequency display
>wandering and then died.
>Now I have no display and no recieve audio. So far I think my problem
>is in the AF-AVR board. I have 14VDC going in but the 9VDC is at
>around 6V and won't adjust via VR4. I disconnected all but the AF1
>connector to see if the 9V was being pulled down, but that had no
>effect. If I disconnect the bottom connector from the display 9.000.0
>is displayed, the display unit survived. Checking components with a
>meter I am suspecting Q7 2SA496 is shorted. Any help would be
>appreciated.
>
>Thanks,
>
>Karl
>AB2TY
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the

> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7009. How long will it all last? - circuit boards, solder, components, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 20:38:57 UTC
From: ke9zm
Topic: 7009 Message: 7009

I have three of the Kenwood Hybrids now (520S, 820S, and 830S). I also have a Kenwood TS-440AT and some old consumer stereo equipment from the 1970's.

The Hybrids are now about 25 years old. My Kenwood TS-440AT which I bought new is now 16 years old. The consumer stereo equipment is 30 years old.

When I open up the stereo equipment and look at the boards and the solder the areas around where the solder is is tunring brown. My TS-440AT has an intermittent volume knob, not because I abused it. There were a couple of problems with one of my Hybrids which was fixed simply by unplugging, cleaning, and reattaching a connector. When unplugged, the pins on the board seemed to have corrosion.

The question is: how long will this stuff last? Are there any long term studies on how long traces survive on circuit boards; how long solder remains conductive; how long materials that are not conductive stay non-conductive; now long pins and edge connectors will conduct before corrosion build up and creates an open connection; how long transistors last in an ongoing environment of being heated and cooled.. and the same for any component?

So the question is... , with these Hrbrids, is it "use it or lose it" or if you put one of these radio on the shelf and leave it for another 50 or 100 years, will it still work or do these radios and all electronic die with old age (50yrs, 100yrs, etc)

Any insight appreciated.
Gary

7010. Re: [TS-520_820_530_830] TS-820s no display, no recieve audio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 21:48:05 UTC
From: Dennis Windle
Topic: 7007 Message: 7010

NTE 185 is the replacement for the 2SA496 (Y), (Q7 on the AF-AVR board). Q4,5 & 6 (2SC372) would be an NTE 85.
D. Windle
----- Original Message -----
From: Richard Harris
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, March 24, 2006 9:12 AM
Subject: Re: [TS-520_820_530_830] TS-820s no display, no recieve audio

Hi Karl,

Data on the 2SA496 (Q7) can be found at
http://pdf1.alldatasheet.co.kr/datasheet-pdf/view/87361/TOSHIBA/2SA496.html

This may help you choose an alternative if this part is not available.

Richard G3OTK

At 13:52 24/03/2006 +0000, you wrote:
>Hi everyone,
>Unfortunately I have to blame myself for the damage. I made up a new
>External VFO cable and mis-wired it. I crossed pin 4 (12VAC) and 6
>(9VDC Cal). Rig powered up briefly, with the frequency display
>wandering and then died.
>Now I have no display and no recieve audio. So far I think my problem
>is in the AF-AVR board. I have 14VDC going in but the 9VDC is at
>around 6V and won't adjust via VR4. I disconnected all but the AF1
>connector to see if the 9V was being pulled down, but that had no
>effect. If I disconnect the bottom connector from the display 9.000.0
>is displayed, the display unit survived. Checking components with a
>meter I am suspecting Q7 2SA496 is shorted. Any help would be
>appreciated.
>
>Thanks,
>
>Karl
>AB2TY
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on

> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7011. Looking for a TS-520SE instruction manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 21:48:01 UTC
From: Daniel
Topic: 7011 Message: 7011

Hi Folks

Does anybody have the TS-520SE instruction manual (not service manual) as a PDF file? I have only the TS-520S but I think the TS-520SE is a little bit different.

Thanks for reading.

Daniel, HB9DDS

7012. Re: [TS-520_820_530_830] How long will it all last? - circuit boards, solder, components, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 22:44:10 UTC
From: RBB
Topic: 7009 Message: 7012

Interesting question, indeed! I have a Hallicrafters HT17 from around 1946 and electrly cap died once, but the radio still works! Different type of situation, though. I wonder about the "browning circuit boards" too.

ke9zm <ke9zm@...> escribió: I have three of the Kenwood Hybrids now (520S, 820S, and 830S). I
also have a Kenwood TS-440AT and some old consumer stereo equipment
from the 1970's.

The Hybrids are now about 25 years old. My Kenwood TS-440AT which I
bought new is now 16 years old. The consumer stereo equipment is 30
years old.

When I open up the stereo equipment and look at the boards and the
solder the areas around where the solder is is tunring brown. My TS-
440AT has an intermittent volume knob, not because I abused it.
There were a couple of problems with one of my Hybrids which was
fixed simply by unplugging, cleaning, and reattaching a connector.
When unplugged, the pins on the board seemed to have corrosion.

The question is: how long will this stuff last? Are there any long
term studies on how long traces survive on circuit boards; how long
solder remains conductive; how long materials that are not
conductive stay non-conductive; now long pins and edge connectors
will conduct before corrosion build up and creates an open
connection; how long transistors last in an ongoing environment of
being heated and cooled.. and the same for any component?

So the question is... , with these Hrbrids, is it "use it or lose
it" or if you put one of these radio on the shelf and leave it for
another 50 or 100 years, will it still work or do these radios and
all electronic die with old age (50yrs, 100yrs, etc)

Any insight appreciated.
Gary

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Do You Yahoo!? La mejor conexión a Internet y 2GB extra a tu correo por $100 al mes.
http://net.yahoo.com.mx

[Non-text portions of this message have been removed]

7013. Re: How long will it all last? - circuit boards, solder, components, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-24 23:15:29 UTC
From: ke9zm
Topic: 7009 Message: 7013

Was talking to some folks about this and here is another path to failure.

I wonder how many component failures are due to a kind of "avalanche" effect of other component failures. For example, some components may change their values over time - electrolytic caps for sure and maybe disc caps after a longer time. What about other discrete components like resistors? What is the affect of time on semiconductors that are exposed to various kinds of heating and cooling cycles? I know that in the case of the the Kenwood TS-440 the factory used a kind of wax or sealer to fix the positoin of cores in an inductor and insulate one component from another. Over time, this became slightly conductive and now this is the cause of various erratic behaviors in the TS-440.

Now add up all these small changes in individual components and think about all the downstream components that are affected by these changes in values. What you could have in a sort of avalanche affect where the failure of a few puts stress on an increasing number of components and so on to some sort of "chain reaction" of failure.

Maybe the message is... "you can't stop the aging".. and maybe "once it starts to go, its all going to go". So use it before its too late.

Gary

--- In TS-520_820_530_830@yahoogroups.com, RBB <barnardbaca@...> wrote:
>
> Interesting question, indeed! I have a Hallicrafters HT17 from around 1946 and electrly cap died once, but the radio still works! Different type of situation, though. I wonder about the "browning circuit boards" too.
>

7014. Re: [TS-520_820_530_830] Looking for a TS-520SE instruction manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 00:22:52 UTC
From: Ralph Johnson
Topic: 7011 Message: 7014

I don't have a manual, but these people do have them for sale:
http://www.w7fg.com/manuals.php?manufacturer=Kenwood&page=3

Price is 22.00 dollars, I think....

Ralph
Daniel <schaeffler@...> wrote:
Hi Folks

Does anybody have the TS-520SE instruction manual (not service manual) as a PDF file? I have only the TS-520S but I think the TS-520SE is a little bit different.

Thanks for reading.

Daniel, HB9DDS

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

7015. Re: [TS-520_820_530_830] Re: How long will it all last? - circuit boards, solder, components, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 00:59:57 UTC
From: Bill Scurlock
Topic: 7009 Message: 7015

Hi Gary.

Not sure where you are trying to go with this aging discussion, but there is probably some logic in using electrical equipment on a regular basis as opposed to only using it every year or so. Some people think that it is better to never turn off certain types of equipment - such as power supplies - that are more prone to failure at "turn on" than during operation. For example, I have a couple of 12VDC power supplies that have been turned on for maybe 8-10 years that are used with my 450 Mhz repeater system. But, components do age, and at some point something will fail.

About a year ago I refurbished a 75A-4 and a KWS-1 that were manufactured in 1957. The receiver was still working, but the transmitter had a HV arcing problem. The main task was replacing capacitors that were starting to "leak", or that were in parts of the circuit that would be catastrophic if they failed - such as coupling capacitors from plate to grid, etc. As you pointed out, component values do change with age and require replacement or circuit re-tuning, or both. One "avalanche" type failure that I experienced was a 0.01 ceramic disc that shorted out and caused 3 RF Chokes in a 300VDC circuit to burn up. Since it is not practical to replace all the components in a radio, I think "Murphy" just comes by and "zaps" something every once in a while to keep us on our toes repairing old equipment. Then if we get tired of that, we sell all the old stuff and go buy one of the new fancy rigs - so we can send it back to the manufacturer when it goes broke. There are so many different ways for hams to enjoy their hobby. There is no excuse for getting bored - just different ways to pursue our individual interests.

This is the 3rd group of hams I have found that are really interested in their equipment, and in helping others understand and work on their "stuff". The other 2 reflector groups are Collins and Elecraft. There are probably others out there also that I have not had the occasion to visit. Just enjoy the parts of amateur radio that are fun for you.

73, Bill, K5GCW
----- Original Message -----
From: ke9zm
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, March 24, 2006 5:15 PM
Subject: [TS-520_820_530_830] Re: How long will it all last? - circuit boards, solder, components, etc

Was talking to some folks about this and here is another path to
failure.

I wonder how many component failures are due to a kind of "avalanche"
effect of other component failures. For example, some components may
change their values over time - electrolytic caps for sure and maybe
disc caps after a longer time. What about other discrete components
like resistors? What is the affect of time on semiconductors that are

exposed to various kinds of heating and cooling cycles? I know that in the case of the the Kenwood TS-440 the factory used a kind of wax or sealer to fix the positoin of cores in an inductor and insulate one component from another. Over time, this became slightly conductive and now this is the cause of various erratic behaviors in the TS-440.

Now add up all these small changes in individual components and think about all the downstream components that are affected by these changes in values. What you could have in a sort of avalanche affect where the failure of a few puts stress on an increasing number of components and so on to some sort of "chain reaction" of failure.

Maybe the message is... "you can't stop the aging".. and maybe "once it starts to go, its all going to go". So use it before its too late.

Gary

--- In TS-520_820_530_830@yahoogroups.com, RBB <barnardbaca@...> wrote:
>
> Interesting question, indeed! I have a Hallicrafters HT17 from around 1946 and electrly cap died once, but the radio still works! Different type of situation, though. I wonder about the "browning circuit boards" too.
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7016. Re: [TS-520_820_530_830] Re: How long will it all last? - circuit boards, solder, components, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 01:19:59 UTC
From: w3iz
Topic: 7009 Message: 7016

Just like mechanical equipment, good maintenance and minimize abuse and as long as parts are available a device can last a long time.

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.

7017. Re: [TS-520_820_530_830] How long will it all last? - circuit boards, solder, components, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 01:23:33 UTC
From: Peter A Markavage
Topic: 7009 Message: 7017

There's tons of info on circuit board life cycles, aging of materials, transistor aging, etc. all over the internet. Contamination of pin and edge connectors is an ongoing issue unless the equipment is operated in a contamination free environment. 40 and 50 years ago electronic products for business and military were designed with a 20 to 40 year life. In today's world, consumer products are designed with an average life of 5 to 8 years. Materials within the product will generally last a lot longer but the technology moves on. I'm still running a transmitter that was built in 1958 and a receiver that was built in 1947 and they both still work great. My AC-DC 5 tube AM table radio made in 1953, that uses a pc board for all the tubes and components, still works great.
If you put your 820S on the shelf for 75 years, it might take a little effort to get it up and running again.

Pete, wa2cwa

On Fri, 24 Mar 2006 20:38:57 -0000 "ke9zm" <ke9zm@...> writes:
I have three of the Kenwood Hybrids now (520S, 820S, and 830S). I also have a Kenwood TS-440AT and some old consumer stereo equipment from the 1970's.

The Hybrids are now about 25 years old. My Kenwood TS-440AT which I bought new is now 16 years old. The consumer stereo equipment is 30 years old.

When I open up the stereo equipment and look at the boards and the solder the areas around where the solder is is tunring brown. My TS-440AT has an intermittent volume knob, not because I abused it. There were a couple of problems with one of my Hybrids which was fixed simply by unplugging, cleaning, and reattaching a connector. When unplugged, the pins on the board seemed to have corrosion.

The question is: how long will this stuff last? Are there any long term studies on how long traces survive on circuit boards; how long solder remains conductive; how long materials that are not conductive stay non-conductive; now long pins and edge connectors will conduct before corrosion build up and creates an open connection; how long transistors last in an ongoing environment of being heated and cooled.. and the same for any component?

So the question is... , with these Hrbrids, is it "use it or lose it" or if you put one of these radio on the shelf and leave it for another 50 or 100 years, will it still work or do these radios and all electronic die with old age (50yrs, 100yrs, etc)

Any insight appreciated.
Gary

[Non-text portions of this message have been removed]

7018. Re: [TS-520_820_530_830] Re: Best bang for buck VOM?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 02:07:38 UTC
From: Chris Farley
Topic: 6993 Message: 7018

If you are looking for a digital meter, I have found out (the hard way), that you DO get what you pay for. I had an RSR 926 digital multimeter, rated for 750V on the highest AC range. The input chip blew out measuring just under 600VAC. Other than that, I had good luck with the meter, had ranges for just about anything you could want, and it was fairly reasonably priced too. I think around $80.00. So if you are looking for a so-so meter and don't plan on doing anything with high voltages, this might be one route to go.

After I blew the RSR, I splurged and bought a Fluke model 77 series 3 meter. It is not the fanciest one available, but it is a very good meter. It is a bit more expensive than some of the other brands, I think it was around $150.00-$175.00 or so, but in my opinion it is a much superior meter, especially if you like working with older tube type equipment, as both the AC and DC voltage scales go up to 1000v, as opposed to the 750V scale of the RSR and other brand meters.

If I had the money to spend I would buy one of Flukes fancier meters, with the scales for capacitance and all other goodies, but for a basic digital multimeter that should last a long time, the 77 is a good choice.

This is just my 2 cents worth, if any of you disagree, please speak up!

73
Chris KC9IEQ

pchapman9202003 <p_chap@...> wrote:
I do not mind buying new and paying one time only...looking for a
decent fused digital.....

--- In TS-520_820_530_830@yahoogroups.com, "Kevin der Kinderen"
<kkinderen@...> wrote:
>
> I'm a fan of the old Simpson 260 if you're looking for analog
meters. For
> digital, take a look at sometihng like the 8010A bench meter.
>
> I found both of these on Ebay at cheap prices. They were well
used, but work
> well.
>
> 73,
> Kev - K4VD
>
> On 3/22/06, pchapman9202003 <p_chap@...> wrote:
> >
> > It's time for me to upgrade the VOM I have been using. I am
still using
> > a 1 meg ohm analog VOM, which is still quite useful for testing

antenna
> > connections and other light duty stuff.
> >
> > However I would like to be able to chase blown caps and other
somewhat
> > higher ends tasks, without spending any more than I have to, yet
not
> > have to do an upgrade later.
> >
> > Suggestions?
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

New Yahoo! Messenger with Voice. Call regular phones from your PC and save big.

[Non-text portions of this message have been removed]

7019. 830S Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 01:54:31 UTC
From: joe sloss
Topic: 7019 Message: 7019

Does anyone have a spare manual they would like to part with?

Joe

[Non-text portions of this message have been removed]

7020. Re: Looking for a TS-520SE manual... why don't WE have a cmplt collection?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 02:33:54 UTC
From: ke9zm
Topic: 7011 Message: 7020

I looked in the "manuals" folder in "files" of this newsgroup.
Given that this is a newsgroup on the Kenwood Hybrids, some of the
manuals are missing for the "Kenwood Collection" in the files folder

I have a few manuals that are not in there that I could contribute.
I know that folks sell them on e-bay.

Are there any copyright issues with placing PDF's for all the
manuals for the Kenwood Hybrids in the files section?

... or to save space, a file with verified links to the PDF's for a
complete set of manuals...

Gary
--- In TS-520_820_530_830@yahoogroups.com, Ralph Johnson
<rjohns84us@...> wrote:
>
>
> I don't have a manual, but these people do have them for sale:
> http://www.w7fg.com/manuals.php?manufacturer=Kenwood&page=3
>
> Price is 22.00 dollars, I think....
>
> Ralph
> Daniel <schaeffler@...> wrote:
> Hi Folks
>
> Does anybody have the TS-520SE instruction manual (not service
manual) as a PDF file? I
> have only the TS-520S but I think the TS-520SE is a little bit
different.
>
> Thanks for reading.
>
> Daniel, HB9DDS
>
>
>
>
>
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.

>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---
>
>
>
>
>
> ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

7021. TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 07:12:01 UTC
From: agoodridge
Topic: 6634 Message: 7021

Hey Guys

This is my first post,

I am in Australia, just about to sit my full call soon and the proud owner of a Kenwood TS 820 (with the digital display, and one digit missing as usual) and a newly purchased TS 520.

Great old radios and good to see so many people both here and Stateside love these old "boatanchors"!

The 520 I have has a few issues I have to sort out, like replacing some missing ferrite colis in the 10 meter section of the RF board etc, the usual things a 30 plus year old radio has, but other than a cracked persepex fixed channel cover, looks nice.

Thanks for letting me on board!

Take care guys.

73's

Tony VK2

[Non-text portions of this message have been removed]

7022. Re: Looking for a TS-520SE manual... why don't WE have a cmplt collection?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 12:09:09 UTC
From: Ravenswood
Topic: 7011 Message: 7022

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>
> I looked in the "manuals" folder in "files" of this newsgroup.
> Given that this is a newsgroup on the Kenwood Hybrids, some of the
> manuals are missing for the "Kenwood Collection" in the files folder

Check below for many of the manuals users of this group might find useful. I'm sure it's been mentioned before, but since it seems members cannot post to the links section, I'll offer them and hope I'm not being too redundant. I think the reason we don't have more manuals is the limited storage space of the group. The TS-820 manuals are taking up all the space. Maybe the posting member of those can zip them or something to make them smaller?

Anyway, more manuals can be found at these links:

http://www.kg6haf.com/kenwood.html
http://www.n2ckh.com/library.htm
http://www.ham.dmz.ro/kenwood/ts-520se.php (limited access)

Hope that helps.

Hey mod, maybe enable the ability to post these links in the links section? Or offer your best ones there? Seems like that feature is disabled for the users. Thanks!

73

Frank, K2NCC

7023. Great Site

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 12:15:28 UTC
From: unifiedcourt
Topic: 7023 Message: 7023

KB2SQY....Thanks for letting me aboard. Bought a 520 from an older gentleman a few years ago and the radio is in excellent shape. I would like to pick up some extra finals and
my question is where is a good source for these tubes (6146B and 12BY7A) ?

7024. Re: 830S Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 12:17:24 UTC
From: Ravenswood
Topic: 7019 Message: 7024

Hey Joe, check out the Files link to your left.

73

7025. Re: Looking for a TS-520SE manual... why don't WE have a cmplt collection?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 12:16:17 UTC
From: Ravenswood
Topic: 7011 Message: 7025

PS

I took the largest PDF file in the files section, opened it in Adobe Acrobat 6, and reduced file size by about 50% with minimal quality loss.

If the mod, or original posting paryt doesn't have the software capability or inclination, I'd be happy to email you the smaller files or re-post them if room is made. It really would be nice to have as much as we can for all the models for which this group is designed. Who knows how long the links offered in the previous post will be around.

73.

7026. Re: where is a good source for these tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 12:32:23 UTC
From: Ravenswood
Topic: 7023 Message: 7026

--- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt" <hrhoule@...> wrote:
>
> KB2SQY....Thanks for letting me aboard. Bought a 520 from an older gentleman a few
> years ago and the radio is in excellent shape. I would like to pick up some extra finals and
> my question is where is a good source for these tubes (6146B and 12BY7A) ?
>

I bought a set on eBay at a good price. I think I got lucky when I paid less than 15 bucks for a mis-matched set of four. Of course, I'm hoping I won't be disappointed if I ever need them!

As an FYI if you do have to replace them, be sure to check out section 6.9 and 6.14 of your 520 operating manual. Kenwood says "matched tubes are not required, however neutralization is required with new tubes".

Not that I've ever had to do that yet, fortunately!

Check out this web-page for other details on these tubes:
http://home.comcast.net/~zcomco/The_6146_Family_of_Tubes_1.htm

Enjoy your rig. 73.

Frank, K2NCC

7027. Re: [TS-520_820_530_830] Re: where is a good source for these tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 13:13:24 UTC
From: Ronald Houle
Topic: 7023 Message: 7027

Thanks for the info. I bid on four 6146B tubes on Ebay and paid $20.
Each. Two of them are matched and I have read in the manual where matched
pairs are not necessary. Seller said he had bought an inventory of vintage
tubes all in original boxes. The ones that I got are GE. I have access to
a tube tester and will check them out when they arrive. Don¹t want to find
out later they are no good. I am enjoying this old rig more than the new
ones. Quality of sound is better and quality of construction is at a level
that could not be afforded today.....regards KB2SQY Ron 73

On 3/25/06 7:32 AM, "Ravenswood" <evokefrank@...> wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt"
> <hrhoule@...> wrote:
>> >
>> > KB2SQY....Thanks for letting me aboard. Bought a 520 from an
> older gentleman a few
>> > years ago and the radio is in excellent shape. I would like to pick
> up some extra finals and
>> > my question is where is a good source for these tubes (6146B and
> 12BY7A) ?
>> >
>
> I bought a set on eBay at a good price. I think I got lucky when I
> paid less than 15 bucks for a mis-matched set of four. Of course, I'm
> hoping I won't be disappointed if I ever need them!
>
> As an FYI if you do have to replace them, be sure to check out section
> 6.9 and 6.14 of your 520 operating manual. Kenwood says "matched
> tubes are not required, however neutralization is required with new
> tubes".
>
> Not that I've ever had to do that yet, fortunately!
>
> Check out this web-page for other details on these tubes:
> http://home.comcast.net/~zcomco/The_6146_Family_of_Tubes_1.htm
>
> Enjoy your rig. 73.
>
> Frank, K2NCC
>
>
>
>
>
>

>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7028. RES: [TS-520_820_530_830] Great Site

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 13:17:27 UTC
From: PY2FWA
Topic: 7023 Message: 7028

Try this link...

http://www.rfparts.com/6146w.html#ge

good luck.

Alvaro
PY2FWA

-----Mensagem original-----
De: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] Em nome de unifiedcourt
Enviada em: sábado, 25 de março de 2006 09:15
Para: TS-520_820_530_830@yahoogroups.com
Assunto: [TS-520_820_530_830] Great Site

KB2SQY....Thanks for letting me aboard. Bought a 520 from an older
gentleman a few
years ago and the radio is in excellent shape. I would like to pick up
some extra finals and
my question is where is a good source for these tubes (6146B and 12BY7A)
?

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

7029. Re: [TS-520_820_530_830] Re: Looking for a TS-520SE manual... why don't WE have a cmplt collection?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 13:19:08 UTC
From: Ronald Houle
Topic: 7011 Message: 7029

Thanks for the info...you have been very helpful.....73 KB2SQY Ron

On 3/25/06 7:09 AM, "Ravenswood" <evokefrank@...> wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>> >
>> > I looked in the "manuals" folder in "files" of this newsgroup.
>> > Given that this is a newsgroup on the Kenwood Hybrids, some of the
>> > manuals are missing for the "Kenwood Collection" in the files folder
>
>
> Check below for many of the manuals users of this group might find
> useful. I'm sure it's been mentioned before, but since it seems
> members cannot post to the links section, I'll offer them and hope I'm
> not being too redundant. I think the reason we don't have more
> manuals is the limited storage space of the group. The TS-820 manuals
> are taking up all the space. Maybe the posting member of those can
> zip them or something to make them smaller?
>
> Anyway, more manuals can be found at these links:
>
> http://www.kg6haf.com/kenwood.html
> http://www.n2ckh.com/library.htm
> http://www.ham.dmz.ro/kenwood/ts-520se.php (limited access)
>
> Hope that helps.
>
> Hey mod, maybe enable the ability to post these links in the links
> section? Or offer your best ones there? Seems like that feature is
> disabled for the users. Thanks!
>
> 73
>
> Frank, K2NCC
>
>
>
>
>
>
>
>
>
> YAHOO! GROUPS LINKS
>

> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7030. Looking for a TS-520SE instruction manual #2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 14:49:44 UTC
From: Daniel
Topic: 7011 Message: 7030

Thanks to all

But I can't find in all the links the instruction manual for a TS-520SE. All other model are OK,
but not the last TS-5xx serie.

Daniel, HB9DDS

7031. Re: [TS-520_820_530_830] Looking for a TS-520SE instruction manual #2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 17:34:58 UTC
From: Bert Morton
Topic: 7011 Message: 7031

The 520SE service manual describes the difference between the 520S and SE somewhat...

http://www.kg6haf.com/downloads/520SE_Service.pdf
----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, March 25, 2006 9:49 AM
Subject: [TS-520_820_530_830] Looking for a TS-520SE instruction manual #2

Thanks to all

But I can't find in all the links the instruction manual for a TS-520SE. All other model are OK,
but not the last TS-5xx serie.

Daniel, HB9DDS

[Non-text portions of this message have been removed]

7032. Re: [TS-520_820_530_830] Power Voltage Question part2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 19:50:09 UTC
From: Walt Breining
Topic: 7006 Message: 7032

If your voltage seldom goes above 230 volts, leave it as is. If it goes above 235 volts rewire it.

It will NOT cause your transformer to overheat. If it gets near 240 v. You may have your receive go dead but it will come back if you turn the rig off. If your max on the days that it is highest is under 235 volts, leave it alone at 220 V.

Vy 73, Walt N9WB

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 24, 2006 6:18 AM
Subject: [TS-520_820_530_830] Power Voltage Question part2

> Thanks for the replay but I have to more exatly. On the TS-520SE there is a Voltage switch
> which shows 110V/220V.
>
> Some years ago we have lower voltage in switzerland, about 220V and now about 230V.
> When I switch the voltage (switch) at the back of the TS-520SE to 220V, waht happendm
> when my really voltage inhouse is about 230V? Does the transformer overheat in some days?
>
> In the service manual I have 2 version of the transformer: 110/220V and 220/240V Version. I
> can rewire the existent 110/220 to 220/240. But before I do that I have to know is it
> nesessery to do the rewiring!
>
> Daniel , HB9DDS
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>
>

7033. Help with restoring a newly aquired TS520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 22:15:12 UTC
From: m_m_maxau
Topic: 7033 Message: 7033

Hey guys.

I just got a TS 520 from E bay, needs a few parts (which are rare as anything here in Australia!

I need a meter cover (the perspex is cracked on the one on the radio).

I am missing the knobs for the meter and plate? and the fix channel knob.

I also need the 10 meter crystals (or correct frequency and where to locate them inside the radio)

Last but not least I need the ferrite cores from the tuning coils on the rf Board (antenna, RX etc boards, the 28 meg ones)

Any ideas would be great.

I also have a TS 820, with the digital display that has the second digit gone out completely (e.g reads 2X.4551 etc, any ideas where to look.

Congartulations of a great group. I love these old radios and it is great to see that you all do as well!!!

73's from VK 2 Australia

7034. Re: TS 820... [display] ...that has the second digit gone...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-25 23:27:15 UTC
From: Ravenswood
Topic: 7033 Message: 7034

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
> ... a TS 820, with the digital display that has the second
> digit gone out completely (e.g reads 2X.4551 etc, any ideas where
> to look.

I pulled this from mods.dk. It seems the 820 display is a common
problem. Hope this helps.

"TS-820 Fix the problem with the display

Here is somthing you can do if your digital display on the kenwood
ts-820 is giving you a problem.............

1. Remove the counter assembly unit from the 820.
2. Remove both circuit boards from the counter assembly (upper and
lower boards).
3. Scrape away the varnish from the corners of the boards where the
interconnecting screwes and spacers hold the boards into the case.
4. Reassemble the counter...."

and

"The upper and lower PCBs are connected with a chassies mounted male
plug. I often get high resistance faults on the pins. The fix is to
clean and re-grease the pins. The DG-1 display is fine for months
afterwards."

More info here:
http://www.radiomods.co.nz/kenwood/kenwoodts820.html

73

7035. Re: [TS-520_820_530_830] Re: TS 820... [display] ...that has the second digit gone...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 00:00:08 UTC
From: agoodridge
Topic: 7033 Message: 7035

G'day Mate

thanks for the help.

Regards
----- Original Message -----
From: Ravenswood
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, March 26, 2006 9:27 AM
Subject: [TS-520_820_530_830] Re: TS 820... [display] ...that has the second digit gone...

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
> ... a TS 820, with the digital display that has the second
> digit gone out completely (e.g reads 2X.4551 etc, any ideas where
> to look.

I pulled this from mods.dk. It seems the 820 display is a common
problem. Hope this helps.

"TS-820 Fix the problem with the display

Here is somthing you can do if your digital display on the kenwood
ts-820 is giving you a problem.............

1. Remove the counter assembly unit from the 820.
2. Remove both circuit boards from the counter assembly (upper and
lower boards).
3. Scrape away the varnish from the corners of the boards where the
interconnecting screwes and spacers hold the boards into the case.
4. Reassemble the counter...."

and

"The upper and lower PCBs are connected with a chassies mounted male
plug. I often get high resistance faults on the pins. The fix is to
clean and re-grease the pins. The DG-1 display is fine for months
afterwards."

More info here:
http://www.radiomods.co.nz/kenwood/kenwoodts820.html

73

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.1/292 - Release Date: 24/03/2006

[Non-text portions of this message have been removed]

7036. Re: Final and driver tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 01:49:59 UTC
From: james27613
Topic: 7023 Message: 7036

hi,

here is another link for new GE tubes 1980 vintage JAN

http://www.surplussales.com/Tubes-Sock-Acc/TubeSpecials.html

finals and drivers available.

73 james

7037. Re: [TS-520_820_530_830] Re: Final and driver tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 03:25:58 UTC
From: Art
Topic: 7023 Message: 7037

Hello, I tried these tubes in my TS-830S and I guess they had a short because they took out the cathode resistors. I was unable to get this company to refund money or replace with another set. The only thing I was told to do was to claim the problem was do to shipping. I just could not do that when I did not know for sure. Anyway be aware that these tubes might be a problem in a TS-830S.

73
Art
WB4MNK
----- Original Message -----
From: "james27613" <james27613@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 25, 2006 8:49 PM
Subject: [TS-520_820_530_830] Re: Final and driver tube source

> hi,
>
> here is another link for new GE tubes 1980 vintage JAN
>
> http://www.surplussales.com/Tubes-Sock-Acc/TubeSpecials.html
>
> finals and drivers available.
>
> 73 james
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.3.1/292 - Release Date: 3/24/2006
>

>

7038. Re: RES: [TS-520_820_530_830] Great Site

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 05:38:56 UTC
From: John Holden
Topic: 7023 Message: 7038

--- In TS-520_820_530_830@yahoogroups.com, "PY2FWA" <py2fwa@...> wrote:
>
> Try this link...
>
> http://www.rfparts.com/6146w.html#ge
>
> good luck.
>
> Alvaro
> PY2FWA
>

I too have used this vendor..got a good deal on solid performing 6146s.. and if you order from them..be sure to ask for the free baseball cap! (mine helps keep the headset from sliding off from where the hair used to live)

Decent prices and VERY fast delivery, not only on 6146's and 12BY7's..but just about any popular tubes used in Amateur Radio.

John/N7IQV

7039. Re: Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 10:15:32 UTC
From: budgiebob2005
Topic: 6990 Message: 7039

-Update The original valves were u/s and to make matters worse the so called nos from eb some 2 years ago are no better .I lost screen volts and this was direct s/c grid 1 and screen . .The other with a unnown spare will not draw any more than 110 ma at best using bias control. They do peak and give 10watts? but calibration on plate reads 7 mhz. I need a pair good tubes, a store on ebay has NEW from China Does any one have experience off these aprox £25 pair ?

Another minor fault just one segmant in second figure is dead is this a display fault or ? still not had any joy with s meter reads 50% on rx unable to ballance all tx readings appear ok any tips/advice appreciated BOB G8ACQ

-- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005" <budgiebob@...> wrote:
>
> Walt The m series has AM, I belive for europe otherwise same.
> Today i exchanged screen resistors as 1 was over 20% high . Tried
> set again and the low voltage diodes in bridge started arcing so
> Ireplaced these definitely poor joints and overheated in past . The
> rx then ok other than s meter [receive]at half scale all time
> unless reduce rf gain when as expected it rises. unable to zero with
> pot. this is causing a simlar problem when I go to tx as readings
> are all starting at half scale.Have you any ideas on s meter my cct
> is very small and not clear .Did a Quick tune up all seemed ok
> untill I again lost cathode resistors and 1 6146 was red hot other
> normal? but no sign off any arcing in valves . Which valve do you
> think is faulty /was red taking too much current because other not
> working ? I will try 2 new valves when i get the meter correct.
> Any Ideas on meter would help thanks BOB G8ACQ
>
>
>
> --- In TS-520_820_530_830@...m, "Walt Breining" <n9wb@> wrote:
> >
> > Shorted tubes often take out the cathode resistors. If you are using the
> > same tubes as when the failure occurred, you may want to check them on a
> > tube tester. A tube tester won't usually tell you much, but it can

> sometimes
> > catch shorts.
> >
> > You may want to check the screen resistors on the HV board while
> you have it
> > apart.. They change value with age and become unsoldered.
> >
> > BTW was that a typo, I am not sure what an 820 m is.
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, March 22, 2006 3:16 PM
> > Subject: [TS-520_820_530_830] Ts 820 m
> >
> >
> > > I have a 820m which i have no history on and it has obviously
> had some
> > > heavy use . It came to me in a trade as i have a 520 and
thought
> it
> > > would have a use for spares. However as the receiver works
well i
> > > decided to have a look at the no tx fault.As i could hear the
tx
> at
> > > low level on another Rx I checked all voltages around pa ht
etc
> all
> > > appear ok but no bias . I removed the pa pcb and all 4 of the
> cathode
> > > resistors are well and truly burnt [all o/c] Look original!
have
> > > replaced these and will refit board latter . What is probable
> cause
> > > off failure? and things to check and watch for when i start
> up.I have
> > > read most things on site/web re 520 series so would welcome
any
> advice
> > > I dont want to repeat this failure . BOB G8ACQ ps I have a
mains
> > > Variac so I could bring up to 240v slowly if this is a
advantage.
> > >
> > >
> > >
> > >
> > >

> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>

7040. Re: [TS-520_820_530_830] Re: Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 14:27:03 UTC
From: Stephen Goldberg
Topic: 6990 Message: 7040

Bob,

Got a pair of Chinese 6146Bs for my 530 about 6 years ago and they shorted out as soon as I turned the rig on.

Steve W4IMF

----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 26, 2006 5:15 AM
Subject: [TS-520_820_530_830] Re: Ts 820 m

-Update The original valves were u/s and to make matters worse the so called nos from eb some 2 years ago are no better .I lost screen volts and this was direct s/c grid 1 and screen . .The other with a unnown spare will not draw any more than 110 ma at best using bias control. They do peak and give 10watts? but calibration on plate reads 7 mhz. I need a pair good tubes, a store on ebay has NEW from China Does any one have experience off these aprox ?25 pair ?

Another minor fault just one segmant in second figure is dead is this a display fault or ? still not had any joy with s meter reads 50% on rx unable to ballance all tx readings appear ok any tips/advice appreciated BOB G8ACQ

-- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005" <budgiebob@...> wrote:
>
> Walt The m series has AM, I belive for europe otherwise same.
> Today i exchanged screen resistors as 1 was over 20% high . Tried
> set again and the low voltage diodes in bridge started arcing so
> Ireplaced these definitely poor joints and overheated in past . The
> rx then ok other than s meter [receive]at half scale all time
> unless reduce rf gain when as expected it rises. unable to zero with
> pot. this is causing a simlar problem when I go to tx as readings
> are all starting at half scale.Have you any ideas on s meter my cct
> is very small and not clear .Did a Quick tune up all seemed ok
> untill I again lost cathode resistors and 1 6146 was red hot other
> normal? but no sign off any arcing in valves . Which valve do you
> think is faulty /was red taking too much current because other not
> working ? I will try 2 new valves when i get the meter correct.
> Any Ideas on meter would help thanks BOB G8ACQ

>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@> wrote:
> >
> > Shorted tubes often take out the cathode resistors. If you are
> using the
> > same tubes as when the failure occurred, you may want to check
> them on a
> > tube tester. A tube tester won't usually tell you much, but it
can
> sometimes
> > catch shorts.
> >
> > You may want to check the screen resistors on the HV board while
> you have it
> > apart.. They change value with age and become unsoldered.
> >
> > BTW was that a typo, I am not sure what an 820 m is.
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, March 22, 2006 3:16 PM
> > Subject: [TS-520_820_530_830] Ts 820 m
> >
> >
> > > I have a 820m which i have no history on and it has obviously
> had some
> > > heavy use . It came to me in a trade as i have a 520 and
thought
> it
> > > would have a use for spares. However as the receiver works
well i
> > > decided to have a look at the no tx fault.As i could hear the
tx
> at
> > > low level on another Rx I checked all voltages around pa ht
etc
> all
> > > appear ok but no bias . I removed the pa pcb and all 4 of the
> cathode
> > > resistors are well and truly burnt [all o/c] Look original!
have
> > > replaced these and will refit board latter . What is probable
> cause
> > > off failure? and things to check and watch for when i start
> up.I have

> > > read most things on site/web re 520 series so would welcome
any
> advice
> > > I dont want to repeat this failure . BOB G8ACQ ps I have a
mains
> > > Variac so I could bring up to 240v slowly if this is a
advantage.
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>

Yahoo! Groups Links

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.1/292 - Release Date: 3/24/06

7041. Re: [TS-520_820_530_830] Re: Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 16:40:45 UTC
From: Art
Topic: 6990 Message: 7041

I tried some 6146 tubes made in China and they were to tall to fit in the
TS-830S. Height of the tube was the problem.

73
Art
WB4MNK
----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 26, 2006 5:15 AM
Subject: [TS-520_820_530_830] Re: Ts 820 m

-Update The original valves were u/s and to make matters worse the
so called nos from eb some 2 years ago are no better .I lost screen
volts and this was direct s/c grid 1 and screen . .The other with a
unnown spare will not draw any more than 110 ma at best using bias
control. They do peak and give 10watts? but calibration on plate
reads 7 mhz. I need a pair good tubes, a store on ebay has NEW
from China Does any one have experience off these aprox ?25 pair ?

Another minor fault just one segmant in second figure is dead is
this a display fault or ? still not had any joy with s meter reads
50% on rx unable to ballance all tx readings appear ok any
tips/advice appreciated BOB G8ACQ

-- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
<budgiebob@...> wrote:
>
> Walt The m series has AM, I belive for europe otherwise same.
> Today i exchanged screen resistors as 1 was over 20% high . Tried
> set again and the low voltage diodes in bridge started arcing so
> Ireplaced these definitely poor joints and overheated in past .
The
> rx then ok other than s meter [receive]at half scale all time
> unless reduce rf gain when as expected it rises. unable to zero
with
> pot. this is causing a simlar problem when I go to tx as readings
> are all starting at half scale.Have you any ideas on s meter my
cct
> is very small and not clear .Did a Quick tune up all seemed ok
> untill I again lost cathode resistors and 1 6146 was red hot other
> normal? but no sign off any arcing in valves . Which valve do you
> think is faulty /was red taking too much current because other not
> working ? I will try 2 new valves when i get the meter correct.
> Any Ideas on meter would help thanks BOB G8ACQ
>

>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@> wrote:
> >
> > Shorted tubes often take out the cathode resistors. If you are
> using the
> > same tubes as when the failure occurred, you may want to check
> them on a
> > tube tester. A tube tester won't usually tell you much, but it
can
> sometimes
> > catch shorts.
> >
> > You may want to check the screen resistors on the HV board while
> you have it
> > apart.. They change value with age and become unsoldered.
> >
> > BTW was that a typo, I am not sure what an 820 m is.
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, March 22, 2006 3:16 PM
> > Subject: [TS-520_820_530_830] Ts 820 m
> >
> >
> > > I have a 820m which i have no history on and it has obviously
> had some
> > > heavy use . It came to me in a trade as i have a 520 and
thought
> it
> > > would have a use for spares. However as the receiver works
well i
> > > decided to have a look at the no tx fault.As i could hear the
tx
> at
> > > low level on another Rx I checked all voltages around pa ht
etc
> all
> > > appear ok but no bias . I removed the pa pcb and all 4 of the
> cathode
> > > resistors are well and truly burnt [all o/c] Look original!
have
> > > replaced these and will refit board latter . What is probable
> cause
> > > off failure? and things to check and watch for when i start
> up.I have
> > > read most things on site/web re 520 series so would welcome

any
> advice
> > > I dont want to repeat this failure . BOB G8ACQ ps I have a
mains
> > > Variac so I could bring up to 240v slowly if this is a
advantage.
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.1/292 - Release Date: 3/24/2006

7042. Re: Ts 820 m / Testing NOS/New tubes for shorts before the blow up...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 18:48:04 UTC
From: ke9zm
Topic: 6990 Message: 7042

Is there any simple way to check these NOS tubes before they short
out and burn something up ??

Gary

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
<w2imf@...> wrote:
>
> Bob,
>
> Got a pair of Chinese 6146Bs for my 530 about 6 years ago and they
shorted
> out as soon as I turned the rig on.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: "budgiebob2005" <budgiebob@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, March 26, 2006 5:15 AM
> Subject: [TS-520_820_530_830] Re: Ts 820 m
>
>
> -Update The original valves were u/s and to make matters worse
the
> so called nos from eb some 2 years ago are no better .I lost screen
> volts and this was direct s/c grid 1 and screen . .The other with a
> unnown spare will not draw any more than 110 ma at best using bias
> control. They do peak and give 10watts? but calibration on plate
> reads 7 mhz. I need a pair good tubes, a store on ebay has NEW
> from China Does any one have experience off these aprox £25 pair ?

7043. TS520SE off eBay, some notes of interest

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 19:54:31 UTC
From: stevehurstg8lik2003
Topic: 7043 Message: 7043

Hi all,
This is my first post though have been 'lurking' for a while
as the proud owner of a bought from new and still totally pristine
TS530SP in 1984.
Took the plunge a week ago and bought a TS520SE on ebay from a radio
amateur in the UK for the eventual price of £117 or I guess quite a
bit under the $200 mark.
It was delivered free to my Dads and on inspection quite OK-the
usual minor rust blemishes on paintwork but barely noticeable.Fan,
dial lights all OK and VFO smmoth to operate.
On powering in RX was it seemed fine, brilliant quality audio and
all bands super-except the S meter was always reading S5 minimum,
more with signal. The resolution for this was simply an S meter cal-
2 pots, one for a zero and the other sensitivity, adjustment
empirically on 20M!Don't know why this had been left as found....
On TX when trying to TUNE sometimes nothing indicated on both RF out
and on anode current, other times worked OK but on main RF tune with
the full screen volts the current and RF output started off
normally, drooped to perhaps quarter scale after less than a second
and then sometimes rose to normal, often did not -leaving only the
60ma bias current showing.
Checked the GE 6146B finals by winding up the bias and could get 75%
FSD on the current metering plus so very healthy.This was the same
on all bands into a 50 ohm load of course.
Tried swopping the RCA 12BY7A driver with a new GE tube-no
improvement. Next step -as it was common to all the bands was a
tweak of T1 on the carrier board without any test gear but simply
monitoring the TUNE O/P on TX and everything came good! As that was
the only adjustment on that small board I felt much relieved!
But on SSB I then found the MIC gain had to be FSD for a reasonable
O/P with the processor on and stations reported 50HZ hum. Replaced
the ancient MIC with a new Kenwood one and a new 4 pin plug and
sorted! MIC gain setting now circa 10PM...
Really very happy with the gear now and hope any you guys may
purchase can have any problems resolved simply.
Still think of these rigs as being Kenwoods best!

Best 73's + GD DX to all,

Steve G8LIK

7044. TS-820S Display Problem - my sad story and what's inside the counter box...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 20:00:53 UTC
From: ke9zm
Topic: 7044 Message: 7044

For all you TS-820S owners with a display problem...

First of all, I want to thank Walt N9WB for all the help he gave me via e-mail exchanges. Walt is extremely knowledgable about these radios and a huge asset to this group. I hope he hangs around this group for a long time.

That said, I have a TS-820S that had a couple of display problems. First, it had a "9"s problem. The second digit would change to a "9" at random times, and then turn back to the correct value. The second problem is that the display would go blank as the radio heated up. When this happended, I could turn the radio off, let it rest for a while (10 min), turn it back on, and the display would work again.

Here is what you can expect if you open up the digital the display unit (metal box with 2 circuit boards inside)...

There are 4 screws that hold the display unit in from the bottom. There is one connector down there and two connectors on the top. One is power and the other goes to the display.

If you have a blank display the easiest thing to do is check the power out from the voltage regulator - that is the board with the heat sink behind the counter box. At the connector you should have 5 and 14 volts. If you have the TS-820S operators guide it will show the pinouts and voltages - its pretty simple to test. You should hope this is the problem as this is the easiest to fix.

That was not my problem, so into the display box. When I opened the box and looked at the circuit board and connectors I was surprised to see the state of this. Where the edge connector was attached to circuit board there was a brown crust all around the solder paths. The soldering on the board was dull and messy looking. Some places did not look like there was enough solder for a good connection. There were a couple of "fixes" on one of the boards - one jumper wire and a capacitor soldered on the underside of one of the two boards.

Here is what I did...

1. With a dental tool I scraped all the brown crystal stuff from around where the edge connectors connect to the circuit board and brushed the remaining stuff away with a tooth brush.
2. Using a 35W soldering pencil reflowed all the solder where the

edge connectors attach to the board
3. Inspected the boards and reflowed/added solder at places that looked bad.
4. Used a pencil eraser to clean all the edge connectors and the connectors that join the two boards.
5. Reassembled the box leaving all the side screws off. I did this in anticipation of opening up the box again. The top screws can secure the box cover and also allow you to take the cover off the unit without removing the box from the radio. If you put the side screws in you cant do this.
6. Mounted the box back in the radio and attached two top connectors and one bottom.

So that's it, then I said a prayer and turned on the radio.
The radio powered up and the display came on.
But after a while, about 1 hr the display went blank

None of what I did above solved the problem. To make a long story short, I did a bunch of experiments.

Bottom line, my display fails due to a heat buildup problem. As long as the display box stays relatively cool the display works great. In the course of my experiments, leaving the metal cover off of the display (counter) unit (metal box) allows enough heat to get off the circuit boards that the problem is gone. But now there is no metal cover on the display counter assembly. Don't know if that is a good idea or not. But it solved the problem. I suspect there is a board component failure that is temp sensitve and having the metal cover on the counter assembly puts it over the edge to failure.

That's my story, and I'm stickin' to it.
Gary / ke9zm

7045. Re: [TS-520_820_530_830] Re: Ts 820 m / Testing NOS/New tubes for shorts before the blow up...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 20:15:56 UTC
From: Walt Breining
Topic: 6990 Message: 7045

A tube tester will test fairly well for shorts. Generally, if they show problems on a tube checker, they ARE bad. If they test good, they might be good.

Also, placing a 100 watt light bulb in series with the AC line when first trying them will reduce if not eliminate damage if they are shorted. Be sure to use the CORRECT FUSE!

Vy 73, Walt N9WB

----- Original Message -----
From: "ke9zm" <ke9zm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, March 26, 2006 1:48 PM
Subject: [TS-520_820_530_830] Re: Ts 820 m / Testing NOS/New tubes for shorts before the blow up...

> Is there any simple way to check these NOS tubes before they short
> out and burn something up ??
>
> Gary
>
> --- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
> <w2imf@...> wrote:
> >
> > Bob,
> >
> > Got a pair of Chinese 6146Bs for my 530 about 6 years ago and they
> shorted
> > out as soon as I turned the rig on.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Sunday, March 26, 2006 5:15 AM
> > Subject: [TS-520_820_530_830] Re: Ts 820 m
> >
> >
> > -Update The original valves were u/s and to make matters worse
> the
> > so called nos from eb some 2 years ago are no better .I lost screen
> > volts and this was direct s/c grid 1 and screen . .The other with a
> > unnown spare will not draw any more than 110 ma at best using bias

> > control. They do peak and give 10watts? but calibration on plate
> > reads 7 mhz. I need a pair good tubes, a store on ebay has NEW
> > from China Does any one have experience off these aprox ?25 pair ?
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

7046. [TS-520_820_530_830] Re: Ts 820 m / Testing NOS/New tubes for shorts before the blow up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 20:27:51 UTC
From: Walt Breining
Topic: 7046 Message: 7046

Save your power transformer !

Place a 100 watt light bulb in series with the AC mains (120V line in the US) going into the rig.
The bulb will glow bright if there is a short but get dimmer if it is cleared.
This keeps you from frying a good transformer while troubleshooting or going through 30,000 fuses.

I usually purchase a short orange extension cord and one of those rubber Edison base (light bulb) sockets that are rubber coated and have a white and black wire coming from it.

These are used as temporary wiring at construction sites. Ace Hardware and most building supply stores have these. The cost of these two parts won't total more than $5.00. with some creative shopping.

Open the orange jacket at a point a few feet from the female plug to expose the White, Green, and black wire. Cut the black wire only.

Connect the black wire from the Edison socket to the black wire that leads to the male end.
Connect the white wire from the Edison socket to the black wire that leads to the female end.
I usually use a 100 watt bulb. This limits the AC current to below 1.2 amps.

Use this for testing or burning in a rig that has been in storage. Also useful when first trying a set of 6JS6 or 6146 tubes in the event that they are shorted.

With a rig that has a short across the transformer
secondary, a possible shorted diode or capacitor or shorted tube, the potential for frying the transformer while troubleshooting is great. I have seen many rigs damaged needlessly this way.
If the bulb glows bright, there is a short.
If it is dim, there is no short.
The bulb will limit the current and keep from frying the transformer.

Do not operate with this. This is for testing only.

Sadly, I have seen many good rigs that originally only had minor problems such as a shorted tube, capacitor or rectifier, turned into parts because the transformer was damaged during troubleshooting.

Please protect your rigs transformer.

Vy 73, Walt N9WB

7047. Re: [TS-520_820_530_830] Re: Final and driver tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-26 23:04:19 UTC
From: RBB
Topic: 7023 Message: 7047

Just bought a 12by driver from Surplus Sales for backup. Hope it's good.

Art <wb4mnk@...> escribió: Hello, I tried these tubes in my TS-830S and I guess they had a short
because they took out the cathode resistors. I was unable to get this
company to refund money or replace with another set. The only thing I was
told to do was to claim the problem was do to shipping. I just could not do
that when I did not know for sure. Anyway be aware that these tubes might be
a problem in a TS-830S.

73
Art
WB4MNK
----- Original Message -----
From: "james27613" <james27613@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, March 25, 2006 8:49 PM
Subject: [TS-520_820_530_830] Re: Final and driver tube source

> hi,
>
> here is another link for new GE tubes 1980 vintage JAN
>
> http://www.surplussales.com/Tubes-Sock-Acc/TubeSpecials.html
>
> finals and drivers available.
>
> 73 james
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.385 / Virus Database: 268.3.1/292 - Release Date: 3/24/2006
>
>

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

ARS WB7AVF, NAQCC 1097 SKCC 689 FISTS 11881 --- B.M, M.M. Mus. Comp. and DMA student FN30au
NYC, N.Y. COUNTY

Do You Yahoo!? La mejor conexión a Internet y 2GB extra a tu correo por $100 al mes.
http://net.yahoo.com.mx

[Non-text portions of this message have been removed]

7048. Re: [TS-520_820_530_830] TS-820S Display Problem - my sad story and what's inside the counter box...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 00:07:29 UTC
From: Dave Franklin
Topic: 7044 Message: 7048

Gary,

While you have the cover off maybe you can use a can of circuit cooler to isolate the heat sensitive component. Once it shuts down cooling the defective part should bring it back on.

Finding a replacement part may be a challenge but you may be able to find a compatible substitute.

Good Luck,
Dave
KI4JSN

> Bottom line, my display fails due to a heat buildup problem. As
> long as the display box stays relatively cool the display works
> great. In the course of my experiments, leaving the metal cover off
> of the display (counter) unit (metal box) allows enough heat to get
> off the circuit boards that the problem is gone. But now there is
> no metal cover on the display counter assembly. Don't know if that
> is a good idea or not. But it solved the problem. I suspect there
> is a board component failure that is temp sensitve and having the
> metal cover on the counter assembly puts it over the edge to failure.
>
> That's my story, and I'm stickin' to it.
> Gary / ke9zm

7049. Re: TS-820S Display Problem - hi-res picts of counter assembly and other

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 10:42:30 UTC
From: ke9zm
Topic: 7044 Message: 7049

Hey there dave...

Turns out that once the counter fails cooling it alone will not bring it back. To get it back you need to cut the power to the counter assembly and then power it up again. I can do this by pulling the power to the counter assembly by pulling off the connector to the 5v/14v voltage regulator.

If anyone wants to see what is in the counter assembly I put up some hi-res picts of the circuit boards. Someone on that board does not like heat. It does not help that one end of the circuit board is about 1/4 in away from the regulator heatsink. The part of the circuit board closest to the heatsink is farthest from the counter edge connector. To me, those boards look a bit grungy on the solder side.

You can see my TS-820S guts and the detail of the counter assembly opened and disassembled here... (My TS-520S guts are in there too)

http://frrl.dyndns.org/

in the ClassicRadios_Picts folder.

There is other stff on that site. Take what you want. There are some tube manuals in the ClassicRadios_Manuals folder

Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "Dave Franklin" <dfranklyn@...> wrote:
>
> Gary,
>
> While you have the cover off maybe you can use a can of circuit cooler to
> isolate the heat sensitive component. Once it shuts down cooling the
> defective part should bring it back on.
>
> Finding a replacement part may be a challenge but you may be able to find a
> compatible substitute.
>
> Good Luck,
> Dave
> KI4JSN
>

> > Bottom line, my display fails due to a heat buildup problem. As
> > long as the display box stays relatively cool the display works
> > great. In the course of my experiments, leaving the metal cover
off
> > of the display (counter) unit (metal box) allows enough heat to
get
> > off the circuit boards that the problem is gone. But now there
is
> > no metal cover on the display counter assembly. Don't know if
that
> > is a good idea or not. But it solved the problem. I suspect
there
> > is a board component failure that is temp sensitve and having the
> > metal cover on the counter assembly puts it over the edge to
failure.
> >
> > That's my story, and I'm stickin' to it.
> > Gary / ke9zm
>

7050. Danger! High Voltage! Don't let your rig kill you!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 11:32:56 UTC
From: Walt Breining
Topic: 7050 Message: 7050

Danger! High Voltage!

Hybrid rigs such as Kenwood TS-520-820-530-830 and Yaesus such as the FT-101 series have high voltages that can be as high as 800 volts in the power supply and final section. These voltages can kill you!

This is actually true of any rig with tube finals. The rigs listed above and many others have this high voltage on the final tubes even during receive. Keep this in mind when working inside these rigs.

After these rigs are turned off, these voltages remain in capacitors and can still harm or kill you. Most of these rigs have bleeder resistors that are SUPPOSED to discharge these capacitors in a short time after the power is off. These are usually of values in the tens or hundreds of thousand ohms and are usually placed across the capacitor to drain it.

Are these working right in your rig? Would you bet your life on it? I wouldn 't.

As a safety precaution, one should ALWAYS discharge these voltages manually before touching anything in the rig.

To do this, unplug the rig and let it set for 3 or 4 minutes. If the bleeder resistors are working, this SHOULD discharge most of the charge. Then using a screwdriver or a good clip lead, short the HV source to the chassis ground. Hold the short there for ten seconds or so.

HV Source:

In the Yaesu FT-101 series, the board PB-1067B has a pin labeled +600 V.
Or the + side of C77 is the same point.
If you cannot find these points then short the top of the plate choke, to ground. The top of the plate choke is the place that feeds the two tube caps by way of parasitic chokes.

With the Kenwoods, on the HV board there is a point labeled + 800. Discharge this point or discharge the top of the plate choke. . The top of the plate choke is the place that feeds the two tube caps by way of parasitic chokes.

There is enough voltage stored up in these capacitors to create a high enough current to stop you heart.

Vy 73, Walt N9WB

7051. Re: [TS-520_820_530_830] Danger! High Voltage! Don't let your rig kill you!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 11:37:25 UTC
From: w3iz
Topic: 7050 Message: 7051

Saged advice.
As a novice I was once bitten by an FT-101. It was a hell of an experience.
All the muscles in my arm and chest were sore and it even changed the tast
in my mouth. I still remeber the experience as if I were watching it rather
than being a part of it. A new respect for electricity.
I was lucky.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.

7052. Re: [TS-520_820_530_830] Re: Final and driver tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 14:48:41 UTC
From: Paul Manuel
Topic: 7023 Message: 7052

--- Art <wb4mnk@...> wrote:
> Hello, I tried these tubes in my TS-830S and I guess they had a short
> because they took out the cathode resistors. I was unable to get this
> company to refund money or replace with another set. The only thing I
> was told to do was to claim the problem was do to shipping. I just
>could not do that when I did not know for sure. Anyway be aware that
>these tubes might be a problem in a TS-830S.

Art,
If RF Parts say the tubes were good when shipped, you have no reason to doubt them, either. You will never "know for sure" unless the box is smashed, but especially if it was UPS, rest assured they threw the box around like a badminton birdie. I'd follow RF Parts procedure and file, although I thought the shipper had to initiate the claim, not the recipient.
73,
Paul K4PDM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7053. TS-830S Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 15:52:15 UTC
From: Rene Santos
Topic: 7053 Message: 7053

Hi, 73 for all members. Could I open the last digit in the TS-830 display? What kind of mod needs to do that? Thanks in advance.

Rene
HC2SA

Correo Yahoo!
Espacio para todos tus mensajes, antivirus y antispam ¡gratis!
Regístrate ya - http://correo.espanol.yahoo.com/

[Non-text portions of this message have been removed]

7054. Re: [TS-520_820_530_830] Danger! High Voltage! Don't let your rig kill you!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 16:14:08 UTC
From: Bill Scurlock
Topic: 7050 Message: 7054

Walt, very good advice for all of us. When I was checking out my "new" 830, one of the bad components I found was the bleeder resistor in the HV circuit. My voltmeter showed me the problem before my fingers found it. That charged capacitor would have been there waiting for me to touch it for a long time!

73, Bill, K5GCW
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, March 27, 2006 5:32 AM
Subject: [TS-520_820_530_830] Danger! High Voltage! Don't let your rig kill you!

Danger! High Voltage!

Hybrid rigs such as Kenwood TS-520-820-530-830 and Yaesus such as the FT-101 series have high voltages that can be as high as 800 volts in the power supply and final section. These voltages can kill you!

This is actually true of any rig with tube finals. The rigs listed above and many others have this high voltage on the final tubes even during receive. Keep this in mind when working inside these rigs.

After these rigs are turned off, these voltages remain in capacitors and can still harm or kill you. Most of these rigs have bleeder resistors that are SUPPOSED to discharge these capacitors in a short time after the power is off. These are usually of values in the tens or hundreds of thousand ohms and are usually placed across the capacitor to drain it.

Are these working right in your rig? Would you bet your life on it? I wouldn't.

As a safety precaution, one should ALWAYS discharge these voltages manually before touching anything in the rig.

To do this, unplug the rig and let it set for 3 or 4 minutes. If the bleeder resistors are working, this SHOULD discharge most of the charge. Then using a screwdriver or a good clip lead, short the HV source to the chassis ground. Hold the short there for ten seconds or so.

HV Source:

In the Yaesu FT-101 series, the board PB-1067B has a pin labeled +600 V.
Or the + side of C77 is the same point.
If you cannot find these points then short the top of the plate choke, to ground. The top of the plate choke is the place that feeds the two tube caps by way of parasitic chokes.

With the Kenwoods, on the HV board there is a point labeled + 800. Discharge this point or discharge the top of the plate choke. . The top of the plate choke is the place that feeds the two tube caps by way of parasitic chokes.

There is enough voltage stored up in these capacitors to create a high enough current to stop you heart.

Vy 73, Walt N9WB

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7055. Danger! High Voltage! Don't let your rig kill you! HELP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 16:36:17 UTC
From: OneG @ The Taj Mahal
Topic: 7050 Message: 7055

Bill Scurlock wrote:
> Walt, very good advice for all of us. When I was checking out my "new" 830, one of the bad components I found was the bleeder resistor in the HV circuit. My voltmeter showed me the problem before my fingers found it. That charged capacitor would have been there waiting for me to touch it for a long time!
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, March 27, 2006 5:32 AM
> Subject: [TS-520_820_530_830] Danger! High Voltage! Don't let your rig kill you!
>
>
> Danger! High Voltage!
>
> Hybrid rigs such as Kenwood TS-520-820-530-830 and Yaesus such as the FT-101
> series have high voltages that can be as high as 800 volts in the power
> supply and final section. These voltages can kill you!
>
> This is actually true of any rig with tube finals. The rigs listed above and
> many others have this high voltage on the final tubes even during receive.
> Keep this in mind when working inside these rigs.
>
> After these rigs are turned off, these voltages remain in capacitors and can
> still harm or kill you. Most of these rigs have bleeder resistors that are
> SUPPOSED to discharge these capacitors in a short time after the power is
> off. These are usually of values in the tens or hundreds of thousand ohms
> and are usually placed across the capacitor to drain it.
>
> Are these working right in your rig? Would you bet your life on it? I wouldn
> 't.
>
Hi:::::::\
Would a HF AMP (Heathkit HA-10) Have High VOltage too..

I have to ship 1 & the New owner wants the tubes removed.. HOW DANGEROUS
is this..

Thanks for the reply..

K7GNO

>

7056. Re: Ts 820 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 18:44:52 UTC
From: budgiebob2005
Topic: 6990 Message: 7056

--HI Many thanks for replies looks as if china is not reliable source . still unable to ballance s meter on rx to zero although ok on tx /volts etc any ideas bob
G8ACQ
- In TS-520_820_530_830@yahoogroups.com, "Art" <wb4mnk@...> wrote:
>
> I tried some 6146 tubes made in China and they were to tall to fit in the
> TS-830S. Height of the tube was the problem.
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: "budgiebob2005" <budgiebob@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, March 26, 2006 5:15 AM
> Subject: [TS-520_820_530_830] Re: Ts 820 m
>
>
> -Update The original valves were u/s and to make matters worse the
> so called nos from eb some 2 years ago are no better .I lost screen
> volts and this was direct s/c grid 1 and screen . .The other with a
> unnown spare will not draw any more than 110 ma at best using bias
> control. They do peak and give 10watts? but calibration on plate
> reads 7 mhz. I need a pair good tubes, a store on ebay has NEW
> from China Does any one have experience off these aprox £25 pair ?
>
> Another minor fault just one segmant in second figure is dead is
> this a display fault or ? still not had any joy with s meter reads
> 50% on rx unable to ballance all tx readings appear ok any
> tips/advice appreciated BOB G8ACQ
>
>
>
> -- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
> <budgiebob@> wrote:
> >
> > Walt The m series has AM, I belive for europe otherwise same.
> > Today i exchanged screen resistors as 1 was over 20% high . Tried
> > set again and the low voltage diodes in bridge started arcing so
> > Ireplaced these definitely poor joints and overheated in past .

> The
> > rx then ok other than s meter [receive]at half scale all time
> > unless reduce rf gain when as expected it rises. unable to zero
> with
> > pot. this is causing a simlar problem when I go to tx as
readings
> > are all starting at half scale.Have you any ideas on s meter my
> cct
> > is very small and not clear .Did a Quick tune up all seemed ok
> > untill I again lost cathode resistors and 1 6146 was red hot
other
> > normal? but no sign off any arcing in valves . Which valve do
you
> > think is faulty /was red taking too much current because other
not
> > working ? I will try 2 new valves when i get the meter correct.
> > Any Ideas on meter would help thanks BOB G8ACQ
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> > <n9wb@> wrote:
> > >
> > > Shorted tubes often take out the cathode resistors. If you are
> > using the
> > > same tubes as when the failure occurred, you may want to check
> > them on a
> > > tube tester. A tube tester won't usually tell you much, but it
> can
> > sometimes
> > > catch shorts.
> > >
> > > You may want to check the screen resistors on the HV board
while
> > you have it
> > > apart.. They change value with age and become unsoldered.
> > >
> > > BTW was that a typo, I am not sure what an 820 m is.
> > > Vy 73, Walt N9WB
> > >
> > > ----- Original Message -----
> > > From: "budgiebob2005" <budgiebob@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, March 22, 2006 3:16 PM
> > > Subject: [TS-520_820_530_830] Ts 820 m
> > >
> > >
> > > > I have a 820m which i have no history on and it has obviously
> > had some
> > > > heavy use . It came to me in a trade as i have a 520 and

> thought
> > it
> > > > would have a use for spares. However as the receiver works
> well i
> > > > decided to have a look at the no tx fault.As i could hear the
> tx
> > at
> > > > low level on another Rx I checked all voltages around pa ht
> etc
> > all
> > > > appear ok but no bias . I removed the pa pcb and all 4 of the
> > cathode
> > > > resistors are well and truly burnt [all o/c] Look original!
> have
> > > > replaced these and will refit board latter . What is probable
> > cause
> > > > off failure? and things to check and watch for when i start
> > up.I have
> > > > read most things on site/web re 520 series so would welcome
> any
> > advice
> > > > I dont want to repeat this failure . BOB G8ACQ ps I have a
> mains
> > > > Variac so I could bring up to 240v slowly if this is a
> advantage.
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> >
>
>
>
>
>
>
>

> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.3.1/292 - Release Date:
3/24/2006
>

7057. Re: Final and driver tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 19:11:01 UTC
From: ke9zm
Topic: 7023 Message: 7057

What is the probability that rfParts actually tests these tubes
before they ship them? I have no idea, but given what business is,
they probably put them in the box and its your problem.

If you ask for a matched pair, then who does this matching? Seems
to me if you ask for a matched pair someone, somewhere has put them
on some device to match them and therefore verify they work

Whats the deal?

Gary

--- In TS-520_820_530_830@yahoogroups.com, Paul Manuel <k4pdm@...>
wrote:
>
>
>
> --- Art <wb4mnk@...> wrote:
> > Hello, I tried these tubes in my TS-830S and I guess they had a
short
> > because they took out the cathode resistors. I was unable to get
this
> > company to refund money or replace with another set. The only
thing I
> > was told to do was to claim the problem was do to shipping. I
just
> >could not do that when I did not know for sure. Anyway be aware
that
> >these tubes might be a problem in a TS-830S.
>
> Art,
> If RF Parts say the tubes were good when shipped, you have no
reason to
> doubt them, either. You will never "know for sure" unless the box
is
> smashed, but especially if it was UPS, rest assured they threw the
box
> around like a badminton birdie. I'd follow RF Parts procedure and
file,
> although I thought the shipper had to initiate the claim, not the
> recipient.
> 73,
> Paul K4PDM
>
> _____
> Do You Yahoo!?

> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7058. TS 830S SHORTED TUBES-RF PARTS CO.(A-1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 20:47:43 UTC
From: Paul
Topic: 7058 Message: 7058

Hello All,
I have been a customer of RF Parts for over 20 yrs and have never gotten a bad tube,i have purchased over a 100 from them and all are of top quality,one thing I have to is DO NOT BUY THE CHINESE TUBES, the GRIDS FAIL QUICKLY,IN MY EXPERIENCE STICK WITH GE,RCA or SYLVANIA YOU GET WHAT YOU PAY for HERE!I DONT KNOW IF THEIR IS A RUSSIAN TUBE equivelent,but RUSSIAN tubes are excellent,I purchased 2, 8877 SIYLVENTA 8 yrs ago and still going 100% these are in an Alpha 77B,1982 new.I use only RCA-GE 6146 TUBES IN MY TS830S RIGS,AND TS530S.I WOULD FILE an Insurance claim with UPS,they probably played Hockey with the package!
TAKE CARE
DE-K8PG-PAUL CW LIVES-VIVA CW-SKCC#114 GACW#893 .....

7059. Re: Danger! High Voltage! Don't let your rig kill you! HELP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 21:03:57 UTC
From: ke9zm
Topic: 7050 Message: 7059

> Hi:::::::\
> Would a HF AMP (Heathkit HA-10) Have High VOltage too..
>
> I have to ship 1 & the New owner wants the tubes removed.. HOW
DANGEROUS
> is this..
>
> Thanks for the reply..
>
> K7GNO
I dont know what tubes are in that amp, but I have a Ameritron 811H
with 4 x 811 tubes. The issue with removing tubes is getting the
connector off the top of the tube without breaking it. My Ameritron
(new) 811 arrived with the tubes packed separately. I had to install
them and they warned you about the "high-clamping force" of the
connector on the top of the tube.

The Ameritron folks recommended "The safest way to remove the ceramic
connector is to lift the tube out of the socket. A twisting or
spinning pulling motion can then be applied while holding the ceramic
conector firmly until the tube and connector are separated.

I installed these tubes and those top connector are on there for
sure. On the Hybrids I think the caps are ralatively easy to remove.
But other tube stuff, might not be so easy and the risk is breakage.

Gary
PS Remove power from the amp and let it rest before removing the
tubes... :-)

>
>
> >
>

7060. Re: [TS-520_820_530_830] Re: Final and driver tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-27 22:08:26 UTC
From: Art
Topic: 7023 Message: 7060

Hi Paul, I am not sure how RF Parts got into this discussion because the company I was talking about was not RF Parts. I have purchased 6146 tubes from RF Parts and never had any problems at all with service or the tubes.

73
Art
WB4MNK
----- Original Message -----
From: "Paul Manuel" <k4pdm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, March 27, 2006 9:48 AM
Subject: Re: [TS-520_820_530_830] Re: Final and driver tube source

>
>
> --- Art <wb4mnk@...> wrote:
>> Hello, I tried these tubes in my TS-830S and I guess they had a short
>> because they took out the cathode resistors. I was unable to get this
>> company to refund money or replace with another set. The only thing I
>> was told to do was to claim the problem was do to shipping. I just
>>could not do that when I did not know for sure. Anyway be aware that
>>these tubes might be a problem in a TS-830S.
>
> Art,
> If RF Parts say the tubes were good when shipped, you have no reason to
> doubt them, either. You will never "know for sure" unless the box is
> smashed, but especially if it was UPS, rest assured they threw the box
> around like a badminton birdie. I'd follow RF Parts procedure and file,
> although I thought the shipper had to initiate the claim, not the
> recipient.
> 73,
> Paul K4PDM
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.3.2/294 - Release Date: 3/27/2006
>
>

7061. Re: [TS-520_820_530_830] Danger! High Voltage! Don't let your rig kill you! HELP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 02:06:29 UTC
From: Walt Breining
Topic: 7050 Message: 7061

A Tube type amp will have VERY high voltages, sometimes well over 1000 V! Unplug the amp and let it set for a while. Short the wires to the tube plates (top of tubes) to the chassis ground for a few seconds. It should now be safe to remove the tubes. If you want to be extra cautious, after discharging, check the voltage on them with a volt meter before touching them.

Vy 73, Walt N9WB

> Hi:::::::\
> Would a HF AMP (Heathkit HA-10) Have High VOltage too..
>
> I have to ship 1 & the New owner wants the tubes removed.. HOW DANGEROUS
> is this..
>
> Thanks for the reply..
>
> K7GNO
>

7062. Re: Danger! High Voltage! Don't let your rig kill you! HELP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 04:17:04 UTC
From: John Holden
Topic: 7050 Message: 7062

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> A Tube type amp will have VERY high voltages, sometimes well over
1000 V!
> Unplug the amp and let it set for a while. Short the wires to the tube
> plates (top of tubes) to the chassis ground for a few seconds. It
should now
> be safe to remove the tubes. If you want to be extra cautious, after
> discharging, check the voltage on them with a volt meter before touching
> them.
>
> Vy 73, Walt N9WB

Walt and the group:

A quick reminder for those working around magic bottles, as it was in the old days when folks actually worked on TV sets: Keep one hand in your back pocket when poking around inside.

That will prevent a hand to hand path (through your chest) if you DO happen across the high voltage in a cap or a hot circuit. You might still make contact, but keeping that other hand out of the way will help keep you safe. Long sleeves are another cheap way to not go to ground via your skin!

(Note: Getting a tingle is alright, if its from an attractive person...but beware..your sig other finds out..you might hurt from THAT tingle, too!)

John/N7IQV

7063. RE: 6146B and 12BY7A tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 06:53:56 UTC
From: Bruce Wright
Topic: 7063 Message: 7063

Dear Fellow Group Members...

In light of the recent posts on disappointing tube failures or performance and vendors of questionable service, I can recommend the following vendor as being first class in every respect...I have purchased numerous tubes from Stan, including GE 6146B's via telephone and in-person when he has exhibited his stock at Hamcom in Dallas on several occasions.

You can call him at 561-737-8044 or send him an e-mail at: esrc@...
or visit his site at: home.att.net/~esrc/esrcmain.html

Disclaimer: No connection except to know Stan is a good guy and I have been a satisfied customer for several years.

Bruce
WC5CW

7064. My experience with RF Parts - 6146W GE "not recommended" for Kenwood....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 07:22:34 UTC
From: ke9zm
Topic: 7064 Message: 7064

I called RF parts today and asked them about 6146 tubes. They said that all their tubes were tested and have a 1 yr warranty against defects.

Then they asked me what radio I was going to use this in. I said "Kenwood Hybrid" they told me that the 6146W GE was "not recommended" for Kenwood but the 6146W Sylvania / ECG-Philips were recommended

The GE 6146W are $40/pair and the 6146W Sylvania are $60/pair.

Now that's pretty cool - are the Sylvania recommended since they wanted the $20 difference or was there something more to it than that.

Is it not reasonable to expect that a tube that meets the 6146W spec meets the 6146W spec? If the spec is the spec then what does it matter if its a GE or a Sylvania? If a 6146W is not a 6146W then will the real 6146W please stand up.

Gary / ke9zm

7065. Re: [TS-520_820_530_830] My experience with RF Parts - 6146W GE "not recommended" for Kenwood....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 07:37:54 UTC
From: Peter A Markavage
Topic: 7064 Message: 7065

Unless they can provide you with facts on what they believe the differences are between these two 6146's that would make a difference in the Kenwood, I would have trouble believing it. I got a pair of GE's in my 830. They've been in there for years.

Pete, wa2cwa

On Tue, 28 Mar 2006 07:22:34 -0000 "ke9zm" <ke9zm@...> writes:
I called RF parts today and asked them about 6146 tubes. They said that all their tubes were tested and have a 1 yr warranty against defects.

Then they asked me what radio I was going to use this in. I said "Kenwood Hybrid" they told me that the 6146W GE was "not recommended" for Kenwood but the 6146W Sylvania / ECG-Philips were recommended

The GE 6146W are $40/pair and the 6146W Sylvania are $60/pair.

Now that's pretty cool - are the Sylvania recommended since they wanted the $20 difference or was there something more to it than that.

Is it not reasonable to expect that a tube that meets the 6146W spec meets the 6146W spec? If the spec is the spec then what does it matter if its a GE or a Sylvania? If a 6146W is not a 6146W then will the real 6146W please stand up.

Gary / ke9zm

[Non-text portions of this message have been removed]

7066. Re: [TS-520_820_530_830] Re: Danger! High Voltage! Don't let your rig kill you! HELP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 14:59:30 UTC
From: OneG @ The Taj Mahal
Topic: 7050 Message: 7066

John Holden wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
> wrote:
>
>>A Tube type amp will have VERY high voltages, sometimes well over
>
> 1000 V!
THANKs for ALl the info Fellas....

I'll be REAL CAREFULL..

Gene

7067. Re: [TS-520_820_530_830] Danger! High Voltage! Don't let your rig kill you! HELP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 15:00:08 UTC
From: OneG @ The Taj Mahal
Topic: 7050 Message: 7067

Walt Breining wrote:
> A Tube type amp will have VERY high voltages, sometimes well over 1000 V!
> Unplug the amp and let it set for a while. Short the wires to the tube
> plates (top of tubes) to the chassis ground for a few seconds. It should now
> be safe to remove the tubes. If you want to be extra cautious, after
> discharging, check the voltage on them with a volt meter before touching
> them.
>
> Vy 73, Walt N9WB
>
>
>>Hi:::::::\
>>Would a HF AMP (Heathkit HA-10) Have High VOltage too..
>>
>>I have to ship 1 & the New owner wants the tubes removed.. HOW DANGEROUS
>>is this..
>>
>>Thanks for the reply..
>>
>>K7GNO
>Thanks

Geno

7068. Re: [TS-520_820_530_830] RE: 6146B and 12BY7A tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 16:31:51 UTC
From: David S Lund
Topic: 7063 Message: 7068

On Mar 28, 2006, at 12:53 AM, Bruce Wright wrote:

> Dear Fellow Group Members...
>
> In light of the recent posts on disappointing tube failures or
> performance
> and vendors of questionable service, I can recommend the following
> vendor
> as being first class in every respect...I have purchased numerous
> tubes from
> Stan, including GE 6146B's via telephone and in-person when he has
> exhibited
> his stock at Hamcom in Dallas on several occasions.
>
> You can call him at 561-737-8044 or send him an e-mail at:
> esrc@...
> or visit his site at: home.att.net/~esrc/esrcmain.html
>
> Disclaimer: No connection except to know Stan is a good guy and I
> have been
> a satisfied customer for several years.
>
> Bruce
> WC5CW

I just finished re-tubing my TS-520SE and used JAN GE 6146W tubes from K5SVC on eBay. They came packed very well and work just fine - and they were reasonably priced - $15.00 a piece.

David
KB5DRJ

7069. Re: 6146B and 12BY7A tube source

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 20:51:13 UTC
From: Roberto Baca Barnard
Topic: 7063 Message: 7069

Can, should and may I use the 6146W for the TS820? I read "the 6146 Family" article and I read the messages here. RFParts claims to be out of the 6146A. Please advise. ROB WB7AVF

P.S. the Deoxit treatment of pots and connex worked FB Walt--my 820 is humming along FB for now

7070. Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 22:41:17 UTC
From: steveb84us
Topic: 7070 Message: 7070

I have one last problem that I am trying to figure out on my 830S. In tune mode, I am getting very little to no power out. With the meter switched to IP, I am seeing 10ma at best. Makes it very difficult to peak and dip. I am able to get full power out on all bands after tuning in cw. When I switch the meter to hv, I am seeing 800 volts in cw which sounds normal. However, in tune, I am seeing 950 volts. This sounds very wrong. Should I start by looking at the resistors on the hv board?

Thanks,

Steve - N9SB

7071. Re: [TS-520_820_530_830] Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 22:48:48 UTC
From: pmertens
Topic: 7070 Message: 7071

Are you checking these figures on a pure 50 Ohm dummy load ?

Patrick - ON4NY

Le Wed, 29 Mar 2006 00:41:17 +0200, steveb84us <steveb84@...> a
?crit:

> I have one last problem that I am trying to figure out on my 830S. In
> tune mode, I am getting very little to no power out. With the meter
> switched to IP, I am seeing 10ma at best. Makes it very difficult to
> peak and dip. I am able to get full power out on all bands after
> tuning in cw. When I switch the meter to hv, I am seeing 800 volts in
> cw which sounds normal. However, in tune, I am seeing 950 volts.
> This sounds very wrong. Should I start by looking at the resistors on
> the hv board?
>
> Thanks,
>
> Steve - N9SB
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--

_____
Patrick MERTENS
Licenci? en Sciences - Master in Sciences
T?l.: 010 65 76 86 - pmertens@...

7072. Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 23:03:32 UTC
From: steveb84us
Topic: 7070 Message: 7072

Didn't use a 50 Ohm dummy load. Will that greatly effect the
figures?

--- In TS-520_820_530_830@yahoogroups.com, pmertens <pmertens@...>
wrote:
>
> Are you checking these figures on a pure 50 Ohm dummy load ?
>
> Patrick - ON4NY
>
>
>
> Le Wed, 29 Mar 2006 00:41:17 +0200, steveb84us <steveb84@...> a
> écrit:
>
> > I have one last problem that I am trying to figure out on my
830S. In
> > tune mode, I am getting very little to no power out. With the
meter
> > switched to IP, I am seeing 10ma at best. Makes it very
difficult to
> > peak and dip. I am able to get full power out on all bands after
> > tuning in cw. When I switch the meter to hv, I am seeing 800
volts in
> > cw which sounds normal. However, in tune, I am seeing 950 volts.
> > This sounds very wrong. Should I start by looking at the
resistors on
> > the hv board?
> >
> > Thanks,
> >
> > Steve - N9SB
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >

>
>
>
> --
> ____
> Patrick MERTENS
> Licencié en Sciences - Master in Sciences
> Tél.: 010 65 76 86 - pmertens@...
>

7073. Tune up and such things

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-28 23:21:27 UTC
From: lajes67
Topic: 7073 Message: 7073

I have been reading a few of the other mesages about not being able to see things when tuning up and other things. I simply post this and hope it will be a help to others. Years ago, when I first got my license, I built, among other things, a Heathkit "Cantenna" dummy load. Over the years, no matter where I had my shack located, it just sat there, on the floor, behind whatever I had my radio sitting on, out of sight but never out of mind as I always tuned my TS530S up into it before I put it on the air. A few years back I noticed that I was unable to really tune the radio up and get any indications that matched what the manual said. After one long session on PSK I noticed one of those smells that says "somethings getting hot", the back area of the 530 was really hot to the touch. I rechecked the SWR into the beam and it wasn't even nice to look at, same thing into the dummy. At this point all kinds of bad visions were going through my mind, coax, beam, radio, just to mention a few things. But for some reason the tune up into the dummy thing kept popping up. I checked the connections and sure enough, the old "open one side" problem, somehow over the years something worked itself loose and a quick hit with the soldering iron fixed the problem, now I was able to tune up correctly into the dummy load, the SWR was where it was suppose to be and I had no further problems on the air.
My point is, just because it says 50 ohm, are you really tuning up into a 50 ohm dummy load or is it something totally different? Just one of those little things that makes it interesting, how's that old saying go "It's the little things in life that are difficult, man can sit on the tip of a mountain but man cannot sit on the tip of a tack".

73...John K2IZ

7074. Re: [TS-520_820_530_830] Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 00:01:25 UTC
From: Gord Sturos
Topic: 7070 Message: 7074

Try adjusting the bias to 60ma, and see if that makes a difference.

steveb84us <steveb84@...> wrote: I have one last problem that I am trying to figure out on my 830S. In
tune mode, I am getting very little to no power out. With the meter
switched to IP, I am seeing 10ma at best. Makes it very difficult to
peak and dip. I am able to get full power out on all bands after
tuning in cw. When I switch the meter to hv, I am seeing 800 volts in
cw which sounds normal. However, in tune, I am seeing 950 volts.
This sounds very wrong. Should I start by looking at the resistors on
the hv board?

Thanks,

Steve - N9SB

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Character is doing the right thing even when no one is watching.

New Yahoo! Messenger with Voice. Call regular phones from your PC and save big.

[Non-text portions of this message have been removed]

7075. Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 01:06:23 UTC
From: steveb84us
Topic: 7070 Message: 7075

Checked the bias. It was set to 60mA. Still don't understand why
the screen voltage in tune is higher. According to the manual, in
tune, screen voltage is cut 50%. Very confused at the moment.
Thanks for the input.

Steve - N9SB

--- In TS-520_820_530_830@yahoogroups.com, Gord Sturos
<radiow8idb@...> wrote:
>
> Try adjusting the bias to 60ma, and see if that makes a difference.
>
> steveb84us <steveb84@...> wrote: I have one last problem that I
am trying to figure out on my 830S. In
> tune mode, I am getting very little to no power out. With the
meter
> switched to IP, I am seeing 10ma at best. Makes it very difficult
to
> peak and dip. I am able to get full power out on all bands after
> tuning in cw. When I switch the meter to hv, I am seeing 800
volts in
> cw which sounds normal. However, in tune, I am seeing 950 volts.
> This sounds very wrong. Should I start by looking at the
resistors on
> the hv board?
>
> Thanks,
>
> Steve - N9SB
>
>
>
>
>
>
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of

Service.
>
>
> ---
>
>
>
>
>
> Character is doing the right thing even when no one is watching.
>
> ---
> New Yahoo! Messenger with Voice. Call regular phones from your PC
and save big.
>
> [Non-text portions of this message have been removed]
>

7076. Re: [TS-520_820_530_830] Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 01:45:23 UTC
From: Peter A Markavage
Topic: 7070 Message: 7076

I use a hundred watt light bulb as a dummy load. It's a pi-network output, 50 ohms, 75 ohms, 92 ohms. It doesn't really care. Don't get hung up on 50 ohm dummy loads. This ain't no solid-state transmitter output.

Tune mode will have higher plate voltage indication; it's in the tune mode. Transmitter RF output should be minimal, around 10 to 30 watts in the tune mode. IP would be minimal; it's in the tune mode. Tune mode is use to peak the driver and set the ALC level and when the meter is in the IP position, helps you to find the initial dip or resonance point. Full output tuning, dip and peak, tune for maximum RF power output, is done in the CW mode.

Check the archives, and also, I believe in the Files folder, the tuning procedures have been documented numerous times.

Pete, wa2cwa

On Tue, 28 Mar 2006 23:03:32 -0000 "steveb84us" <steveb84@...> writes:
Didn't use a 50 Ohm dummy load. Will that greatly effect the figures?

--- In TS-520_820_530_830@yahoogroups.com, pmertens <pmertens@...> wrote:
>
> Are you checking these figures on a pure 50 Ohm dummy load ?
>
> Patrick - ON4NY
>
>
>
> Le Wed, 29 Mar 2006 00:41:17 +0200, steveb84us <steveb84@...> a
> écrit:
>
> > I have one last problem that I am trying to figure out on my 830S. In
> > tune mode, I am getting very little to no power out. With the meter
> > switched to IP, I am seeing 10ma at best. Makes it very difficult to
> > peak and dip. I am able to get full power out on all bands after
> > tuning in cw. When I switch the meter to hv, I am seeing 800 volts in
> > cw which sounds normal. However, in tune, I am seeing 950 volts.
> > This sounds very wrong. Should I start by looking at the

resistors on
> > the hv board?
> >
> > Thanks,
> >
> > Steve - N9SB

[Non-text portions of this message have been removed]

7077. Re: [TS-520_820_530_830] Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 01:56:29 UTC
From: Ken Winterling
Topic: 7070 Message: 7077

Steve,

I don't have my '830 service manual at the moment (I'm at work) so I can't give you specific direction but I had a TS-520S with the same problem a couple years ago. It would put our full power in CW but no output in tune.

IIRC it turned out to be the resistor that is used to drop the screen voltage when in the tune mode. Check that section of the switch that selects the tune mode vs the other modes and you should see the resistor. The one in the rig I repaired was open. I don't recall what I determined to be the problem that blew the resistor.

Good luck and please report your findings.

Ken, WA2LBI

On 3/28/06, steveb84us <steveb84@...> wrote:
> Checked the bias. It was set to 60mA. Still don't understand why
> the screen voltage in tune is higher. According to the manual, in
> tune, screen voltage is cut 50%. Very confused at the moment.
> Thanks for the input.
>
> Steve - N9SB
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Gord Sturos
> <radiow8idb@...> wrote:
> >
> > Try adjusting the bias to 60ma, and see if that makes a difference.
> >
> > steveb84us <steveb84@...> wrote: I have one last problem that I
> am trying to figure out on my 830S. In
> > tune mode, I am getting very little to no power out. With the
> meter
> > switched to IP, I am seeing 10ma at best. Makes it very difficult
> to
> > peak and dip. I am able to get full power out on all bands after
> > tuning in cw. When I switch the meter to hv, I am seeing 800
> volts in
> > cw which sounds normal. However, in tune, I am seeing 950 volts.
> > This sounds very wrong. Should I start by looking at the
> resistors on
> > the hv board?
> >

> > Thanks,
> >
> > Steve - N9SB
> >
> >
> >
> >
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> >
> > Visit your group "TS-520_820_530_830" on the web.
> >
> > To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> > ---
> >
> >
> >
> >
> >
> > Character is doing the right thing even when no one is watching.
> >
> > ---
> > New Yahoo! Messenger with Voice. Call regular phones from your PC
> and save big.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>

7078. Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 02:28:09 UTC
From: james27613
Topic: 7070 Message: 7078

Hi Pete,

I just got to ask, GE or Sylvania for the dummy load ?

73 james ke4drn

> I use a hundred watt light bulb as a dummy load. It's a pi-network
> output, 50 ohms, 75 ohms, 92 ohms. It doesn't really care. Don't get
hung
> up on 50 ohm dummy loads. This ain't no solid-state transmitter
output.

7079. Re: [TS-520_820_530_830] Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 07:41:18 UTC
From: Peter A Markavage
Topic: 7070 Message: 7079

GE Soft White. It gives a great glow when I modulate it in SSB.
Pete, wa2cwa

On Wed, 29 Mar 2006 02:28:09 -0000 "james27613" <james27613@...>
writes:
Hi Pete,

I just got to ask, GE or Sylvania for the dummy load ?

73 james ke4drn

> I use a hundred watt light bulb as a dummy load. It's a pi-network
> output, 50 ohms, 75 ohms, 92 ohms. It doesn't really care. Don't get
hung
> up on 50 ohm dummy loads. This ain't no solid-state transmitter
output.

[Non-text portions of this message have been removed]

7080. Re: [TS-520_820_530_830] Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 07:58:35 UTC
From: pmertens
Topic: 7070 Message: 7080

Yes, of course. If the load is not at resonance in tune mode, current and tension can be evertything.
So, to compare HV tension, you should be at resonance and the best way to be sure of that is to make measurements on a 50 ohm dummy load !

Patrick - ON4NY

Le Wed, 29 Mar 2006 01:03:32 +0200, steveb84us <steveb84@...> a ?crit:

> Didn't use a 50 Ohm dummy load. Will that greatly effect the
> figures?
>
>
> --- In TS-520_820_530_830@yahoogroups.com, pmertens <pmertens@...>
> wrote:
>>
>> Are you checking these figures on a pure 50 Ohm dummy load ?
>>
>> Patrick - ON4NY
>>
>>
>>
>> Le Wed, 29 Mar 2006 00:41:17 +0200, steveb84us <steveb84@...> a
>> ?crit:
>>
>> > I have one last problem that I am trying to figure out on my
> 830S. In
>> > tune mode, I am getting very little to no power out. With the
> meter
>> > switched to IP, I am seeing 10ma at best. Makes it very
> difficult to
>> > peak and dip. I am able to get full power out on all bands after
>> > tuning in cw. When I switch the meter to hv, I am seeing 800
> volts in
>> > cw which sounds normal. However, in tune, I am seeing 950 volts.
>> > This sounds very wrong. Should I start by looking at the
> resistors on
>> > the hv board?
>> >
>> > Thanks,
>> >
>> > Steve - N9SB
>> >

>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>>
>>
>>
>> --
>> ____
>> Patrick MERTENS
>> Licenci? en Sciences - Master in Sciences
>> T?l.: 010 65 76 86 - pmertens@...
>>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--

____
Patrick MERTENS
Licenci? en Sciences - Master in Sciences
T?l.: 010 65 76 86 - pmertens@...

7081. Re: [TS-520_820_530_830] Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 09:44:07 UTC
From: Walt Breining
Topic: 7070 Message: 7081

If it is an 830, the resistors that affect this are R-15 and R-16 on the rectifier unit board. They are both 56 k. Probably R-15 is fried out. Replace both of them.

Vy 73, Walt N9WB

----- Original Message -----
From: "steveb84us" <steveb84@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 28, 2006 5:41 PM
Subject: [TS-520_820_530_830] Little to no power output in tune mode on TS-830S

> I have one last problem that I am trying to figure out on my 830S. In
> tune mode, I am getting very little to no power out. With the meter
> switched to IP, I am seeing 10ma at best. Makes it very difficult to
> peak and dip. I am able to get full power out on all bands after
> tuning in cw. When I switch the meter to hv, I am seeing 800 volts in
> cw which sounds normal. However, in tune, I am seeing 950 volts.
> This sounds very wrong. Should I start by looking at the resistors on
> the hv board?
>
> Thanks,
>
> Steve - N9SB

7082. Re: [TS-520_820_530_830] Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 09:47:12 UTC
From: Walt Breining
Topic: 7070 Message: 7082

As stated below, if you idle current on SSB with the mike gain fully down and the rig keyed is not 60 ma. you should set it for that. Gord has a good point. Walt N9WB

----- Original Message -----
From: "Gord Sturos" <radiow8idb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 28, 2006 7:01 PM
Subject: Re: [TS-520_820_530_830] Little to no power output in tune mode on TS-830S

> Try adjusting the bias to 60ma, and see if that makes a difference.
>
> steveb84us <steveb84@...> wrote: I have one last problem that I am trying to figure out on my 830S. In
> tune mode, I am getting very little to no power out. With the meter
> switched to IP, I am seeing 10ma at best. Makes it very difficult to
> peak and dip. I am able to get full power out on all bands after
> tuning in cw. When I switch the meter to hv, I am seeing 800 volts in
> cw which sounds normal. However, in tune, I am seeing 950 volts.
> This sounds very wrong. Should I start by looking at the resistors on
> the hv board?
>
> Thanks,
>
> Steve - N9SB
>
>
>
>
>
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> ---------------------------------

>
>
>
>
>
> Character is doing the right thing even when no one is watching.
>
> ---------------------------------
> New Yahoo! Messenger with Voice. Call regular phones from your PC and save
big.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7083. Re: [TS-520_820_530_830] Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 09:55:40 UTC
From: Walt Breining
Topic: 7070 Message: 7083

Change the resistors as in my earlier post. Your HV meter is not looking at the screen voltage, it is looking at the plate voltage. With the lower screen voltage, the tubes are not drawing as much current from the HV supply and the plate voltage will go up. It will swamp as you draw more power.

Think about what would happen if you plugged both a lamp and an electric heater into the end of a long extension cord. When the heater turned on, the bulb would dim do to lower voltage when the load increased.

Vy 73, Walt N9WB

----- Original Message -----
From: "steveb84us" <steveb84@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, March 28, 2006 8:06 PM
Subject: [TS-520_820_530_830] Re: Little to no power output in tune mode on TS-830S

> Checked the bias. It was set to 60mA. Still don't understand why
> the screen voltage in tune is higher. According to the manual, in
> tune, screen voltage is cut 50%. Very confused at the moment.
> Thanks for the input.
>
> Steve - N9SB
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Gord Sturos
> <radiow8idb@...> wrote:
> >
> > Try adjusting the bias to 60ma, and see if that makes a difference.
> >
> > steveb84us <steveb84@...> wrote: I have one last problem that I
> am trying to figure out on my 830S. In
> > tune mode, I am getting very little to no power out. With the
> meter
> > switched to IP, I am seeing 10ma at best. Makes it very difficult
> to
> > peak and dip. I am able to get full power out on all bands after
> > tuning in cw. When I switch the meter to hv, I am seeing 800
> volts in
> > cw which sounds normal. However, in tune, I am seeing 950 volts.
> > This sounds very wrong. Should I start by looking at the
> resistors on
> > the hv board?
> >

> > Thanks,
> >
> > Steve - N9SB
> >
> >
> >
> >
> >
> >
> > ---
> > YAHOO! GROUPS LINKS
> >
> >
> > Visit your group "TS-520_820_530_830" on the web.
> >
> > To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> > ---
> >
> >
> >
> >
> >
> > Character is doing the right thing even when no one is watching.
> >
> > ---
> > New Yahoo! Messenger with Voice. Call regular phones from your PC
> and save big.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>

7084. Tuning Up TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 10:51:38 UTC
From: unifiedcourt
Topic: 7084 Message: 7084

Would someone run me through the procedure they use for tuning up before transmitting. I do not have a dummy load yet but would also entertain any suggestions for what kind to purchase.
When the TS-520 is turned to the "tune" position I noticed the output is very low, about 10 watts. And when I turn to CW the output is 100 Watts. Transmitting using a tuner does not show anything more than 10 watts output. Ron KB2SQY

7085. Digital modes on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 12:20:07 UTC
From: Ken McGowan
Topic: 7085 Message: 7085

I have a quick question. Using my 830 for digital modes, good or bad for the radio.

Thanks, Ken
w1nyg

7086. Re: [TS-520_820_530_830] Digital modes on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 12:40:12 UTC
From: G Bay
Topic: 7085 Message: 7086

Depends on which mode and
how u set the rig, my 530s:
feldhell - full power, psk31- keep output under 25w, rtty under 25w
Duty cycle is everything
73
WB3DSJ

Ken McGowan <w.one.nyg@...> wrote:
I have a quick question. Using my 830 for digital modes, good or bad
for the radio.

Thanks, Ken
w1nyg

Yahoo! Groups Links

Blab-away for as little as 1¢/min. Make PC-to-Phone Calls using Yahoo! Messenger with Voice.

[Non-text portions of this message have been removed]

7087. Re: Little to no power output in tune mode on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 13:31:16 UTC
From: steveb84us
Topic: 7070 Message: 7087

Thanks Walt. This is the information that I was looking for. Now it makes sense. Been out of the hobby for a while and trying to get re-educated. When I get a chance, I will check those resistors and report back. Thanks to everyone for the replies to my original post.

Steve - N9SB

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Change the resistors as in my earlier post. Your HV meter is not looking at
> the screen voltage, it is looking at the plate voltage. With the lower
> screen voltage, the tubes are not drawing as much current from the HV supply
> and the plate voltage will go up. It will swamp as you draw more power.
>
> Think about what would happen if you plugged both a lamp and an electric
> heater into the end of a long extension cord. When the heater turned on, the
> bulb would dim do to lower voltage when the load increased.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "steveb84us" <steveb84@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, March 28, 2006 8:06 PM
> Subject: [TS-520_820_530_830] Re: Little to no power output in tune mode on
> TS-830S
>
>
> > Checked the bias. It was set to 60mA. Still don't understand why
> > the screen voltage in tune is higher. According to the manual, in
> > tune, screen voltage is cut 50%. Very confused at the moment.
> > Thanks for the input.
> >
> > Steve - N9SB
> >
> >

> > --- In TS-520_820_530_830@yahoogroups.com, Gord Sturos
> > <radiow8idb@> wrote:
> > >
> > > Try adjusting the bias to 60ma, and see if that makes a
difference.
> > >
> > > steveb84us <steveb84@> wrote: I have one last problem that I
> > am trying to figure out on my 830S. In
> > > tune mode, I am getting very little to no power out. With the
> > meter
> > > switched to IP, I am seeing 10ma at best. Makes it very
difficult
> > to
> > > peak and dip. I am able to get full power out on all bands
after
> > > tuning in cw. When I switch the meter to hv, I am seeing 800
> > volts in
> > > cw which sounds normal. However, in tune, I am seeing 950
volts.
> > > This sounds very wrong. Should I start by looking at the
> > resistors on
> > > the hv board?
> > >
> > > Thanks,
> > >
> > > Steve - N9SB
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > YAHOO! GROUPS LINKS
> > >
> > >
> > > Visit your group "TS-520_820_530_830" on the web.
> > >
> > > To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service.
> > >
> > >
> > > ---------------------------------
> > >
> > >
> > >
> > >

> > >
> > > Character is doing the right thing even when no one is
watching.
> > >
> > > ---------------------------------
> > > New Yahoo! Messenger with Voice. Call regular phones from your
PC
> > and save big.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

7088. Re: Digital modes on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 13:37:25 UTC
From: Ken McGowan
Topic: 7085 Message: 7088

How do I change the wattage? Decrease the drive or load?

73, Ken

--- In TS-520_820_530_830@yahoogroups.com, G Bay <botr8@...> wrote:
>
> Depends on which mode and
> how u set the rig, my 530s:
> feldhell - full power, psk31- keep output under 25w, rtty under 25w
> Duty cycle is everything
> 73
> WB3DSJ
>
> Ken McGowan <w.one.nyg@...> wrote:
> I have a quick question. Using my 830 for digital modes, good or bad
> for the radio.
>
>
> Thanks, Ken
> w1nyg
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> ---------------------------------
> Blab-away for as little as 1¢/min. Make PC-to-Phone Calls using
Yahoo! Messenger with Voice.
>
> [Non-text portions of this message have been removed]
>

7089. Re: [TS-520_820_530_830] Tuning Up TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 14:47:15 UTC
From: Stephen Goldberg
Topic: 7084 Message: 7089

I've found the fastest and easiest way to tune up is to start by setting
drive control for max ALC in the tune mode. Then with the meter
set to IP and the load control at minimum, dip the plate current with
the plate knob. Then switch to CW mode and RF output on the meter.
Key the rig and increase the output with load knob (clockwise) then
increase it with plate knob (usually counter-clockwise). Alternate
between load and plate until you have maximum output.
Keep key down time short.
Hope this helps.
Steve W4IMF

----- Original Message -----
From: "unifiedcourt" <hrhoule@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 29, 2006 5:51 AM
Subject: [TS-520_820_530_830] Tuning Up TS-520

> Would someone run me through the procedure they use for tuning up
before
> transmitting. I do not have a dummy load yet but would also entertain any
suggestions
> for what kind to purchase.
> When the TS-520 is turned to the "tune" position I noticed the output
is very low, about
> 10 watts. And when I turn to CW the output is 100 Watts. Transmitting
using a tuner does
> not show anything more than 10 watts output. Ron KB2SQY
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

--
Certified Virus Free.

Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.2/294 - Release Date: 3/27/06

7090. Test Please Ignore

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 14:52:11 UTC
From: Bert Morton
Topic: 7090 Message: 7090

Test

[Non-text portions of this message have been removed]

7091. Re: [TS-520_820_530_830] Tuning Up TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 13:36:17 UTC
From: Bert Morton
Topic: 7084 Message: 7091

Here is a link for a copy of the opertating manual. Tune up procedure is included.

http://www.kg6haf.com/downloads/520_Manual.pdf

----- Original Message -----
From: unifiedcourt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, March 29, 2006 5:51 AM
Subject: [TS-520_820_530_830] Tuning Up TS-520

Would someone run me through the procedure they use for tuning up before transmitting. I do not have a dummy load yet but would also entertain any suggestions

[Non-text portions of this message have been removed]

7092. Re: [TS-520_820_530_830] Tuning Up TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 17:51:12 UTC
From: Ronald Houle
Topic: 7084 Message: 7092

Thanks Steve,

This is what I was looking for. Does a dummy load work better or is this procedure sufficient for this radio? Ron KB2SQY

On 3/29/06 9:47 AM, "Stephen Goldberg" <w2imf@...> wrote:

> I've found the fastest and easiest way to tune up is to start by setting
> drive control for max ALC in the tune mode. Then with the meter
> set to IP and the load control at minimum, dip the plate current with
> the plate knob. Then switch to CW mode and RF output on the meter.
> Key the rig and increase the output with load knob (clockwise) then
> increase it with plate knob (usually counter-clockwise). Alternate
> between load and plate until you have maximum output.
> Keep key down time short.
> Hope this helps.
> Steve W4IMF
>
> ----- Original Message -----
> From: "unifiedcourt" <hrhoule@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, March 29, 2006 5:51 AM
> Subject: [TS-520_820_530_830] Tuning Up TS-520
>
>
>> > Would someone run me through the procedure they use for tuning up
> before
>> > transmitting. I do not have a dummy load yet but would also entertain any
> suggestions
>> > for what kind to purchase.
>> > When the TS-520 is turned to the "tune" position I noticed the output
> is very low, about
>> > 10 watts. And when I turn to CW the output is 100 Watts. Transmitting
> using a tuner does
>> > not show anything more than 10 watts output. Ron KB2SQY
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >

>> >
>> >
>> >
>> >
>> >
>
>

[Non-text portions of this message have been removed]

7093. Tune-Up procedure and explanation for tube amps in general

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 23:05:43 UTC
From: ke9zm
Topic: 7093 Message: 7093

For all the tune-up folks. For the hybrids, follow the basic cookbook instructions in the Kenwood manuals.

Here is a bit more detail of what you are doing and why you are doing it. This applies to tube amps in general. Plus links on how to care for your tubes and other relevant info.

http://www.kk5dr.com/Tuneup.htm

Gary / ke9zm

PS I have read some folks doing tune-up with no load at all. Seems to me that essential equipment for any ham is a tuner and a dummy load. If you have neither, MFJ has a tuner with a built-in 300W dummy load for about $100. It is something you will use all the time and worth the investment over a 100W light bulb.

7094. Re: [TS-520_820_530_830] Re: Digital modes on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 23:32:45 UTC
From: G Bay
Topic: 7085 Message: 7094

Ken,
The mike gain controls your output as your soundcard
output goes to the mike input.
I take it u havn't actually
begun running digital modes. Best to do some reading
(back issues of qst, web sites etc.) digital modes are not
a big deal to interface or use some r.s. hardware and a few
resisters are all u need to give it a try. Download multipsk
freeware and away u go. The old rigs may require some
warmup to prevent drift but I use a 530s all the time and
have used a 520 and a tentec scout as well.
good luck
WB3DSJ

Ken McGowan <w.one.nyg@...> wrote:
How do I change the wattage? Decrease the drive or load?

73, Ken

--- In TS-520_820_530_830@yahoogroups.com, G Bay wrote:
>
> Depends on which mode and
> how u set the rig, my 530s:
> feldhell - full power, psk31- keep output under 25w, rtty under 25w
> Duty cycle is everything
> 73
> WB3DSJ
>
> Ken McGowan wrote:
> I have a quick question. Using my 830 for digital modes, good or bad
> for the radio.
>
>
> Thanks, Ken
> w1nyg
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>
>
>
>
> ---------------------------------
> Blab-away for as little as 1¢/min. Make PC-to-Phone Calls using
Yahoo! Messenger with Voice.
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1¢/min.

[Non-text portions of this message have been removed]

7095. Re: Digital modes on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 23:39:57 UTC
From: james27613
Topic: 7085 Message: 7095

hi ken,

the best way to reduce the power out when using
digital modes in SSB is to use the ALC circuit.

in the file section of the group, look in MODS,
there is a schematic for the ts-520 that can
be used for the ts-530 and 830 series, just
get the DIN connector.

You pass -9v dc to the alc and it will reduce
power out in ssb

using mic gain is not the best way to reduce power out,
it can cause you to have a distorted signal.

73 james ke4drn

7096. Re: Digital modes on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-30 00:23:19 UTC
From: lajes67
Topic: 7085 Message: 7096

I used my 530S for a few years now on PSK, first QSO I had the other station advised me to turn the power way, way down. If you haven't seen it already, PSK looks like "rail road tracks" and the program I was using all you had to do was put the cursor in the middle and away you went. You can tell who is really running "power", everything is wide and in some cases you can see the signal in other parts of the "waterfall display".
I am in no way affiliated with nor do I or will I receive compensation in any form, with that said, I suggest you take a look at the "West Mountain Radio" equipment, the interface is called a "Rigblaster". Everything you need comes in one package and they even throw in a cd with different types of program software and directions on where to find it on the internet, their support is excellent. Should take you about an hour to get on the air and like I said before, all the cables come with whatever you buy and the instructions are easy to follow. It's a good mode, you really don't need more than 10 watts to get out.
73...John K2IZ
--- In TS-520_820_530_830@yahoogroups.com, "Ken McGowan" <w.one.nyg@...> wrote:
>
> I have a quick question. Using my 830 for digital modes, good or bad
> for the radio.
>
>
> Thanks, Ken
> w1nyg
>

7097. Re: [TS-520_820_530_830] Tune-Up procedure and explanation for tube amps in general

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-30 02:17:58 UTC
From: peter a markavage
Topic: 7093 Message: 7097

For a typical set of 6146 final output tubes, with a pi-network, a 100 watt light bulb will work fine as a power output indicator. It's a nice accessory to have in the shack along with a non-inductive dummy load.

Pete, wa2cwa

On Wed, 29 Mar 2006 23:05:43 -0000 "ke9zm" <ke9zm@...> writes:
For all the tune-up folks. For the hybrids, follow the basic cookbook instructions in the Kenwood manuals.

Here is a bit more detail of what you are doing and why you are doing it. This applies to tube amps in general. Plus links on how to care for your tubes and other relevant info.

http://www.kk5dr.com/Tuneup.htm

Gary / ke9zm

PS I have read some folks doing tune-up with no load at all. Seems to me that essential equipment for any ham is a tuner and a dummy load. If you have neither, MFJ has a tuner with a built-in 300W dummy load for about $100. It is something you will use all the time and worth the investment over a 100W light bulb.

[Non-text portions of this message have been removed]

7098. Re: [TS-520_820_530_830] Tuning Up TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-29 22:19:31 UTC
From: Stephen Goldberg
Topic: 7084 Message: 7098

Should work with a dummy load or an antenna. Best to start with the dummy load to prevent interference on the air and then switch to your antenna and touch up the tuning.

Steve W4IMF

----- Original Message -----
From: "Ronald Houle" <hrhoule@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, March 29, 2006 12:51 PM
Subject: Re: [TS-520_820_530_830] Tuning Up TS-520

> Thanks Steve,
>
>
> This is what I was looking for. Does a dummy load work better or is this
> procedure sufficient for this radio? Ron KB2SQY
>
> On 3/29/06 9:47 AM, "Stephen Goldberg" <w2imf@...> wrote:
>
> > I've found the fastest and easiest way to tune up is to start by setting
> > drive control for max ALC in the tune mode. Then with the meter
> > set to IP and the load control at minimum, dip the plate current with
> > the plate knob. Then switch to CW mode and RF output on the meter.
> > Key the rig and increase the output with load knob (clockwise) then
> > increase it with plate knob (usually counter-clockwise). Alternate
> > between load and plate until you have maximum output.
> > Keep key down time short.
> > Hope this helps.
> > Steve W4IMF

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.3/296 - Release Date: 3/29/06

7099. TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 01:53:19 UTC
From: rick
Topic: 7099 Message: 7099

Hi all,
Does anyone know where I can get a copy of the WARC band mods for the
TS 820?Has anyone here actually done the mods?

Thanks
Rick KA2PBO

7100. Re: [TS-520_820_530_830] TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 10:11:02 UTC
From: agoodridge
Topic: 7099 Message: 7100

G'day all

I similarly would love a copy of this mod, please help!

Thanks
Anthony
VK2
----- Original Message -----
From: rick
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, March 31, 2006 11:53 AM
Subject: [TS-520_820_530_830] TS 820 WARC mods

Hi all,
Does anyone know where I can get a copy of the WARC band mods for the
TS 820?Has anyone here actually done the mods?

Thanks
Rick KA2PBO

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.3/298 - Release Date: 30/03/2006

[Non-text portions of this message have been removed]

7101. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 18:28:33 UTC
From: ve3fh
Topic: 7099 Message: 7101

I think you can get them from RUBE at ftp.emeraldrose.us, I have seen
a couple of folders there with those mods.

73,
Julio VE3FH

--- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
<agoodridge@...> wrote:
>
> G'day all
>
> I similarly would love a copy of this mod, please help!
>
> Thanks
> Anthony
> VK2
> ----- Original Message -----
> From: rick
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, March 31, 2006 11:53 AM
> Subject: [TS-520_820_530_830] TS 820 WARC mods
>
>
> Hi all,
> Does anyone know where I can get a copy of the WARC band mods
for the
> TS 820?Has anyone here actually done the mods?
>
> Thanks
> Rick KA2PBO
>

7102. Looking for TS-830S part

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 20:18:21 UTC
From: Daniel
Topic: 7102 Message: 7102

Hell ALL

I'm looking for the following TS-830S-part:

http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/view/4607?b=2

universal coupling band load, D22-0402-05

Does anybody has 1 or more to sell?? I cant't find it at: http://www.kenwoodparts.com

Please let me know.

Daniel, HB9DDS

7103. Re: [TS-520_820_530_830] Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 20:30:22 UTC
From: agoodridge
Topic: 7099 Message: 7103

Hello Julio

Thank you for the tips
73's

Regards
ANTHONY
----- Original Message -----
From: ve3fh
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, April 01, 2006 4:28 AM
Subject: [TS-520_820_530_830] Re: TS 820 WARC mods

I think you can get them from RUBE at ftp.emeraldrose.us, I have seen
a couple of folders there with those mods.

73,
Julio VE3FH

--- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
<agoodridge@...> wrote:
>
> G'day all
>
> I similarly would love a copy of this mod, please help!
>
> Thanks
> Anthony
> VK2
> ----- Original Message -----
> From: rick
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, March 31, 2006 11:53 AM
> Subject: [TS-520_820_530_830] TS 820 WARC mods
>
>
> Hi all,
> Does anyone know where I can get a copy of the WARC band mods
for the
> TS 820?Has anyone here actually done the mods?
>
> Thanks
> Rick KA2PBO
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.3/298 - Release Date: 30/03/2006

[Non-text portions of this message have been removed]

7104. Re: ftp.emeraldrose.us VE3FH

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 20:57:31 UTC
From: Ravenswood
Topic: 7099 Message: 7104

--- In TS-520_820_530_830@yahoogroups.com, "ve3fh" <cx9ct@...> wrote:
>
>
> I think you can get them from RUBE at ftp.emeraldrose.us, I have seen
> a couple of folders there with those mods.
>
> 73,
> Julio VE3FH

Julio, this site is asking for a username/pass. Anonymous access not
allowed.

7105. Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 21:10:35 UTC
From: Ravenswood
Topic: 7105 Message: 7105

Greetings all, and thanks for looking.

My name is Frank, K2NCC, in Hillsboro, Oregon.

I have a Kenwood TS-520. I'm hoping to find someone around my QTH to check out my setup to see what I can do better. For instance, I'd like to verify the rig is tuned right and maybe review my antenna setup.

I bought the 520 in order to get my feet wet, but it seems like I'm barely getting a sweat on them! Some of my QSOs seem fine, but.. well, anyway, I figure we can go over those details later. I have tons of questions and am eager to learn. I do have a radio background from the Army (98H), but to show you how much training we received, I never once heard anything about the danger of RF!

I'm minus the antenna meter (another 200 bucks I'm not quite ready to spend!), so if you have one, please consider bringing it. I think I have everything else. I have a 'scope, multimeter, freq counter, antenna tuner and a dummy load. No CW key, but that too is on my list. (Been eagerly eyeballin' that Schurr Profi 2. Gotta get the antenna meter first tho'.)

Can't offer you any $$$ worthy of your time, but I will offer some good company and some beer and pizza (or a substitute if you prefer).

There's got to be someone willing to hang out some afternoon and play radio with me. I've asked a few others, but no one has stuck to any commitments.

So, if you're in the area, know your way around the Kenwood TS-520 boat anchor, and have a couple of hours to whittle away some afternoon, drop me a line! If you prefer voice, I'll send you my 'phone number and we can co-ordinate.

Even if you don't have the time, maybe you'll know someone who does.

Thanks again to all, and 73.

Frank, K2NCC

(CROSS-POSTED OTVARC Chat & myelmer)

7106. Re: [TS-520_820_530_830] Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 22:02:06 UTC
From: Stephen Goldberg
Topic: 7105 Message: 7106

Frank,
Sorry, I'm in the beautiful Blue Ridge Mountains of western North Carolina
and can't help out personally. But, if you're looking for an antenna
SWR/power meter, check out eBay. There are usually a bunch available for
very few bucks. I've been using a Radio Shack job for many years that cost
$30 new. Click on the following:
http://cgi.ebay.com/RADIO-SHACK-SWR-POWER-METER-CB-HAM-HF-TUNER_W0QQitemZ9706136842QQcateg
oryZ48701QQssPageNameZWDVWQQrdZ1QQcmdZViewItem
to see what I am using. Right now it is listed at $8.00 with a $5.50
shipping charge.
Hope this helps.
Steve W4IMF

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 31, 2006 4:10 PM
Subject: [TS-520_820_530_830] Is your QTH in the Portland, Oregon area?

> Greetings all, and thanks for looking.
>
> My name is Frank, K2NCC, in Hillsboro, Oregon.
>
> I have a Kenwood TS-520. I'm hoping to find someone around my QTH to
> check out my setup to see what I can do better. For instance, I'd
> like to verify the rig is tuned right and maybe review my antenna setup.
>
> I bought the 520 in order to get my feet wet, but it seems like I'm
> barely getting a sweat on them! Some of my QSOs seem fine, but..
> well, anyway, I figure we can go over those details later. I have
> tons of questions and am eager to learn. I do have a radio background
> from the Army (98H), but to show you how much training we received, I
> never once heard anything about the danger of RF!
>
> I'm minus the antenna meter (another 200 bucks I'm not quite ready to
> spend!), so if you have one, please consider bringing it. I think I
> have everything else. I have a 'scope, multimeter, freq counter,
> antenna tuner and a dummy load. No CW key, but that too is on my
> list. (Been eagerly eyeballin' that Schurr Profi 2. Gotta get the
> antenna meter first tho'.)
>
> Can't offer you any $$$ worthy of your time, but I will offer some
> good company and some beer and pizza (or a substitute if you prefer).
>
> There's got to be someone willing to hang out some afternoon and play

> radio with me. I've asked a few others, but no one has stuck to any
> commitments.
>
> So, if you're in the area, know your way around the Kenwood TS-520
> boat anchor, and have a couple of hours to whittle away some
> afternoon, drop me a line! If you prefer voice, I'll send you my
> 'phone number and we can co-ordinate.
>
> Even if you don't have the time, maybe you'll know someone who does.
>
> Thanks again to all, and 73.
>
> Frank, K2NCC
>
>
>
> (CROSS-POSTED OTVARC Chat & myelmer)
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.4/299 - Release Date: 3/31/06

7107. Re: Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 22:47:55 UTC
From: Ravenswood
Topic: 7105 Message: 7107

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
<w2imf@...> wrote:
> SWR/power meter, check out eBay. There are usually a bunch
available for
> very few bucks. I've been using a Radio Shack job for many years

Well, I have a tuner that has power/swr (AT-230). What I'd like to
have and from what I understand, an invaluable tool, is the antenna
analyzer. Something like what's found here: http://tinyurl.com/l25vp

Thanks for the info!

Frank, K2NCC

7108. Re: [TS-520_820_530_830] Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 23:22:04 UTC
From: Bob Baxter
Topic: 7105 Message: 7108

Frank,
I forwarded your post to Ron AC7AC in Hillsboro. He is one of the best.
Bob Baxter AA7EQ
Walnut Ridge, Ar.

On 3/31/06, Ravenswood <evokefrank@...> wrote:
>
> Greetings all, and thanks for looking.
>
> My name is Frank, K2NCC, in Hillsboro, Oregon.
>
> I have a Kenwood TS-520. I'm hoping to find someone around my QTH to
> check out my setup to see what I can do better. For instance, I'd
> like to verify the rig is tuned right and maybe review my antenna setup.
>
> I bought the 520 in order to get my feet wet, but it seems like I'm
> barely getting a sweat on them! Some of my QSOs seem fine, but..
> well, anyway, I figure we can go over those details later. I have
> tons of questions and am eager to learn. I do have a radio background
> from the Army (98H), but to show you how much training we received, I
> never once heard anything about the danger of RF!
>
> I'm minus the antenna meter (another 200 bucks I'm not quite ready to
> spend!), so if you have one, please consider bringing it. I think I
> have everything else. I have a 'scope, multimeter, freq counter,
> antenna tuner and a dummy load. No CW key, but that too is on my
> list. (Been eagerly eyeballin' that Schurr Profi 2. Gotta get the
> antenna meter first tho'.)
>
> Can't offer you any $$$ worthy of your time, but I will offer some
> good company and some beer and pizza (or a substitute if you prefer).
>
> There's got to be someone willing to hang out some afternoon and play
> radio with me. I've asked a few others, but no one has stuck to any
> commitments.
>
> So, if you're in the area, know your way around the Kenwood TS-520
> boat anchor, and have a couple of hours to whittle away some
> afternoon, drop me a line! If you prefer voice, I'll send you my
> 'phone number and we can co-ordinate.
>
> Even if you don't have the time, maybe you'll know someone who does.
>
> Thanks again to all, and 73.
>

> Frank, K2NCC
>
>
>
> (CROSS-POSTED OTVARC Chat & myelmer)
>
>
>
>
>
> SPONSORED LINKS
> Ham radio<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=H
obby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft
> hobby<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hob
by+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby
> and craft supply<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> ------------------------------
> YAHOO! GROUPS LINKS
>
>
> - Visit your group
"TS-520_820_530_830<http://groups.yahoo.com/group/TS-520_820_530_830>"
> on the web.
>
> - To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe@yahoogroup
s.com?subject=Unsubscribe>
>
> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ------------------------------
>

--
Bob Baxter AA7EQ
Walnut Ridge, Ar.

[Non-text portions of this message have been removed]

7109. Re: [TS-520_820_530_830] Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 23:25:13 UTC
From: Bob Baxter
Topic: 7105 Message: 7109

Correction---make that Forest Grove, not Hillsboro

On 3/31/06, Bob Baxter <aa7eq.ham@...> wrote:
>
> Frank,
> I forwarded your post to Ron AC7AC in Hillsboro. He is one of the best.
>
> Bob Baxter AA7EQ
> Walnut Ridge, Ar.
>
> On 3/31/06, Ravenswood < evokefrank@...> wrote:
> >
> > Greetings all, and thanks for looking.
> >
> > My name is Frank, K2NCC, in Hillsboro, Oregon.
> >
> > I have a Kenwood TS-520. I'm hoping to find someone around my QTH to
> > check out my setup to see what I can do better. For instance, I'd
> > like to verify the rig is tuned right and maybe review my antenna setup.
> >
> > I bought the 520 in order to get my feet wet, but it seems like I'm
> > barely getting a sweat on them! Some of my QSOs seem fine, but..
> > well, anyway, I figure we can go over those details later. I have
> > tons of questions and am eager to learn. I do have a radio background
> > from the Army (98H), but to show you how much training we received, I
> > never once heard anything about the danger of RF!
> >
> > I'm minus the antenna meter (another 200 bucks I'm not quite ready to
> > spend!), so if you have one, please consider bringing it. I think I
> > have everything else. I have a 'scope, multimeter, freq counter,
> > antenna tuner and a dummy load. No CW key, but that too is on my
> > list. (Been eagerly eyeballin' that Schurr Profi 2. Gotta get the
> > antenna meter first tho'.)
> >
> > Can't offer you any $$$ worthy of your time, but I will offer some
> > good company and some beer and pizza (or a substitute if you prefer).
> >
> > There's got to be someone willing to hang out some afternoon and play
> > radio with me. I've asked a few others, but no one has stuck to any
> > commitments.
> >
> > So, if you're in the area, know your way around the Kenwood TS-520
> > boat anchor, and have a couple of hours to whittle away some
> > afternoon, drop me a line! If you prefer voice, I'll send you my
> > 'phone number and we can co-ordinate.

> >
> > Even if you don't have the time, maybe you'll know someone who does.
> >
> > Thanks again to all, and 73.
> >
> > Frank, K2NCC
> >
> >
> >
> > (CROSS-POSTED OTVARC Chat & myelmer)
> >
> >
> >
> >
> >
> > SPONSORED LINKS
> > Ham radio<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3
=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft
> > hobby<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=H
obby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby
> > and craft supply<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+rad
io&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > ------------------------------
> > YAHOO! GROUPS LINKS
> >
> >
> > - Visit your group
"TS-520_820_530_830<http://groups.yahoo.com/group/TS-520_820_530_830>"
> > on the web.
> >
> > - To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe@yahoogro
ups.com?subject=Unsubscribe>
> >
> > - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/> .
> >
> >
> > ------------------------------
> >
>
>
>
> --
> Bob Baxter AA7EQ
> Walnut Ridge, Ar.
>

--
Bob Baxter AA7EQ

Walnut Ridge, Ar.

[Non-text portions of this message have been removed]

7110. Re: ftp.emeraldrose.us VE3FH

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 23:40:31 UTC
From: james27613
Topic: 7099 Message: 7110

hi,

you need to join the yahoo group before
you can gain acces to the hamftp server

http://groups.yahoo.com/group/HAMFTP/

73 james ke4drn

7111. Re: Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 23:46:19 UTC
From: james27613
Topic: 7105 Message: 7111

hi,

http://www.wb0w.com/specials.html

WB0W has the mfj analyzer on special
all the time, just call and tell him
you found his special on his website.

73 james

7112. Re: Is your QTH in the Portland, Oregon area?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-03-31 23:48:51 UTC
From: james27613
Topic: 7105 Message: 7112

hi frank,

tell us about the setup you have,
antenna types and how many,
what bands are you working.

sometimes band conditions are
not very good at this time,
that may explain things.

while I am no expert, I'm also
in north carolina, raleigh/durham

73 james

7113. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 00:08:39 UTC
From: Ellen R
Topic: 7099 Message: 7113

I agree,

I wouldn't mind adding the WARC bands (even just 1 band would be nice). I tried the RUBE site, but you need to be a member to access the site. Also, does anybody know if these Warc band mods are doable, without sacrificing, any of the bands this fine radio already has?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "rick" <xbrnr@...> wrote:
>
> Hi all,
> Does anyone know where I can get a copy of the WARC band mods for the
> TS 820?Has anyone here actually done the mods?
>
> Thanks
> Rick KA2PBO
>

7114. An intro, and another question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 01:15:37 UTC
From: Ellen R
Topic: 7114 Message: 7114

Hi everybody,

I'm sort of an old timer. I've been licensed since Feb. 1978., and have been an extra class since Jan. 1994. Up unitl the early 90s, I used mainly tube & hybrid rigs, because it was all I couuld afford.

Just this last Wednesday, my TS-820 (I didn't want to deal with the display issues the 820S has) I bought from Associated Radio arrived. In the mid 80s, when I was in college I briefly owned a TS-520s, and used to use a TS-830S, at the Univ. of WI club stattion, W9YT.

That 830S was a great rig. Once you got used to tuning up, it only took you about a minute to do it, and you were ready to go. I had a lot of fun with that rig. It was the incentive for me to finally upgrade to General in 1986 (I'd been a Novice since 1978), so I could work 160m. I used it on 15m QRP CW, the WARC bands, and even worked KH6CC (via grayline in mid april 1986) on 160m with it. Recently, I decided that I wouldn't mind having another hybrid rig, to sort of take me back to those days. The TS-830S is starting to get noticed by collectors, which is driving prices for good ones up to more than I really want to spend. But its predecessor, the 820/820S is still a pretty reasonable buy. So I bought one. When I took a look at mine on Wednesday, the front panel was similar enough to the TS-830S I used to use, that I knew I'd be able to operate my 820 in my sleep.

Now my question - I've read that there was a version made for the european market (the TS-820M), that had AM capability (whihc is kind of cool). Is it possible to modify the US spec 820 to have AM capbility, without having to literally tear apart the rig, and installing 820m boards (assuming you can even find them anymore)?

73,
Ellen - AF9J

7115. Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 01:34:01 UTC
From: Ravenswood
Topic: 7105 Message: 7115

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi frank,
>
> tell us about the setup you have,
> antenna types and how many,
> what bands are you working.

I tend to work mostly in the 40 meter and some 20 meter. I prefer
`evening' or `late night' bands. Too bad this rig doesn't do 160.

Recently, I've been getting better RX and TX. It seems like a small
spike of 10-15 points on the SF propagation is making a huge
difference. Or, it could be something else. Last night, around
midnight, was my greatest distance covered; KH6FKG in Hawaii, about
2500 miles. I regularly get West Coast stations and some
Arizona/Nevada. Not much else so far. The antenna system is
described a little further down the posting.

Now the setup, I am still green, so correct me anywhere it sounds wrong:

It's a TS-520. With this rig, as I read it on the antenna tuner
(AT-230), on a dummy load, I can output 82 watts on 14.235 and 98
watts on 7.235. To get a steady meter measure, I keyed a constant
tone (from a cw oscillator) into the open mic (Astatic D104).

(I tell ya, it takes four hands to do this or weigh down something.
If there's a better way to do this, let me know!)

Meanwhile, I tweaked the plate current and sometimes the load, until
the meter read the maximum power output I could get. This is assuming
everything else is in place and tuned properly.

I peak at 150 watts in normal use.

The SWR is less than 1.5:1 on everything I've worked so far. Even for
an "automatic antenna tuner" I find myself still constantly tweaking
the R-Tune, X-Tune. Kind of a pain if you have to constantly speak on
the air to tune. If there's an easier way for this too, I'd like to
have it!

Now, the antenna. It's an MFJ 1779B, 80-40 meter SSB Dipole. I have
it cut to 34' feet each side. That seemed to be best for 40 meter and
seems to work for 20. Isn't about 65' the full-wavelength for 40
meters?

Anyway, the antenna is stretched along the property fence, held in place with plastic cable pins, and only about FIVE feet above ground.

I'm told this essentially makes it NVIS. The antenna is straight, horizontal, pointing N/S.

That's the entire antenna system I have. It might be okay for some applications (like skip zone), and I'm not expecting any DX with it. My next antenna `upgrade', which I'm sure could be another forum, is a wire loop around the house eaves. My third, methinks is the Gap Titan DX. Your opinions on any of these?

So, in summary; What's wrong with my picture?

Well, I'm sure everyone's in tears, either from the long email or my humorous antenna, but I do appreciate the help in my call-to-action.

Frank, K2NCC

PS In my nine months as an amateur radio operator, I've quickly learned that the ham radio community tends to attract good people.

Thank you.

7116. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 01:47:39 UTC
From: Ravenswood
Topic: 7099 Message: 7116

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I agree,
>
> I wouldn't mind adding the WARC bands (even just 1 band would be
> nice). I tried the RUBE site, but you need to be a member to access
> the site. Also, does anybody know if these Warc band mods are
> doable, without sacrificing, any of the bands this fine radio
> already has?

Some of this is covered some in message number 5473. Let us know if
you come up with anything solid!

7117. Re: MFJ 259

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 02:24:33 UTC
From: Ravenswood
Topic: 1964 Message: 7117

Seems like, for a bit more money, the PALSTAR ZM30 Antenna Analyzer is a MUCH better investment. With all the complaints I see about most of MFJ's equipment, I'd rather not even start down that road. Check out the eham reviews for the ZM30 here:
http://www.eham.net/reviews/detail/4782

The manual is here:
http://www.palstar.com/manual_zm30.pdf

If anyone owns one, let us know what you think?

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, Bill K0ZL <coorsbill@...> wrote:
> thanks!
>
> --- james27613@... wrote:
> > hi,
> >
> > WB0W has the MFJ analyzer 259B on his special price
> > $ 207.95
> >
> > http://www.wb0w.com/
> >
> > When you phone in the order just tell him you found
> > the
> > speical on his site.
> >
> > I have purchased my mfj from him, he is good to deal
> > with.
> >
> > 73 and good FD
> >
> > james ke4drn

7118. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 02:31:09 UTC
From: Ellen R
Topic: 7099 Message: 7118

Like I said, the TS-820, not the 830. I did exactly what message 5473 recommends - for a TS-830S, to the 830S we had at W9YT (at the Univ. of WI), back in 1987, so I could get the rig on 12m. The 820 has no band switch positions for the WARC bands. I also don't feel like just about gutting the radio to give it WARC band capability. Nor do I feel like losing any of the traditional 6 ham bands, just to add WARC bands. I was wondering if it was possible to use the AUX switch position for this, or will it only receive WWV in the AUX position. If none of this is possible then, I'll just leave the radio alone.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
> >
> > I agree,
> >
> > I wouldn't mind adding the WARC bands (even just 1 band would be
> > nice). I tried the RUBE site, but you need to be a member to access
> > the site. Also, does anybody know if these Warc band mods are
> > doable, without sacrificing, any of the bands this fine radio
> > already has?
>
> Some of this is covered some in message number 5473. Let us know if
> you come up with anything solid!
>

7119. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 02:35:22 UTC
From: Ravenswood
Topic: 7099 Message: 7119

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Like I said, the TS-820, not the 830.

Oops, I'm sorry. I thought they were close enough in design to work.

Good luck,

Frank

7120. Re: [TS-520_820_530_830] Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 03:30:57 UTC
From: G Bay
Topic: 7105 Message: 7120

first inprovement would be to make ur ant. into
an inverted v, find someway to get the center up 15 or 20 ft.
and pull the legs off at a 45 deg. or whatever angle u can get, this will
give u a better takeoff angle for "dx", always a relative term.
Second don't sweat a few or even 20-30w in power. it makes
almost no difference.
Third a 20m dipole made from any copper wire u can find cut
to a 1/4 wave on each end will work better than what u have.
The bigest farce in ham radio in the last 20 years is store bought wire ants.
if u have the space a 1/2 wave dipole will out do any shorted ant.
period. Any of the books on wire ants. will be the best investment u can
make in ham radio.
fourth: get a cheap key or even two wires wired to a plug for the key
input to the rig and closing that will key the xmitter(in the cw mode) and allow u to
tune up, but keep it at abt 10 seconds at a time to save the output
tubes.
fifth, try a little cw in the old novice subbands, lots of guys that send
slow and u can work the world on 20m cw. later.
73
WB3DSJ

Ravenswood <evokefrank@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "james27613"
wrote:
>
> hi frank,
>
> tell us about the setup you have,
> antenna types and how many,
> what bands are you working.

I tend to work mostly in the 40 meter and some 20 meter. I prefer
`evening' or `late night' bands. Too bad this rig doesn't do 160.

Recently, I've been getting better RX and TX. It seems like a small
spike of 10-15 points on the SF propagation is making a huge
difference. Or, it could be something else. Last night, around
midnight, was my greatest distance covered; KH6FKG in Hawaii, about
2500 miles. I regularly get West Coast stations and some
Arizona/Nevada. Not much else so far. The antenna system is
described a little further down the posting.

Now the setup, I am still green, so correct me anywhere it sounds wrong:

It's a TS-520. With this rig, as I read it on the antenna tuner
(AT-230), on a dummy load, I can output 82 watts on 14.235 and 98

watts on 7.235. To get a steady meter measure, I keyed a constant tone (from a cw oscillator) into the open mic (Astatic D104).

(I tell ya, it takes four hands to do this or weigh down something. If there's a better way to do this, let me know!)

Meanwhile, I tweaked the plate current and sometimes the load, until the meter read the maximum power output I could get. This is assuming everything else is in place and tuned properly.

I peak at 150 watts in normal use.

The SWR is less than 1.5:1 on everything I've worked so far. Even for an "automatic antenna tuner" I find myself still constantly tweaking the R-Tune, X-Tune. Kind of a pain if you have to constantly speak on the air to tune. If there's an easier way for this too, I'd like to have it!

Now, the antenna. It's an MFJ 1779B, 80-40 meter SSB Dipole. I have it cut to 34' feet each side. That seemed to be best for 40 meter and seems to work for 20. Isn't about 65' the full-wavelength for 40 meters?

Anyway, the antenna is stretched along the property fence, held in place with plastic cable pins, and only about FIVE feet above ground.

I'm told this essentially makes it NVIS. The antenna is straight, horizontal, pointing N/S.

That's the entire antenna system I have. It might be okay for some applications (like skip zone), and I'm not expecting any DX with it. My next antenna `upgrade', which I'm sure could be another forum, is a wire loop around the house eaves. My third, methinks is the Gap Titan DX. Your opinions on any of these?

So, in summary; What's wrong with my picture?

Well, I'm sure everyone's in tears, either from the long email or my humorous antenna, but I do appreciate the help in my call-to-action.

Frank, K2NCC

PS In my nine months as an amateur radio operator, I've quickly learned that the ham radio community tends to attract good people.

Thank you.

Yahoo! Groups Links

New Yahoo! Messenger with Voice. Call regular phones from your PC for low, low rates.

[Non-text portions of this message have been removed]

7121. Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 04:43:35 UTC
From: Ravenswood
Topic: 7105 Message: 7121

--- In TS-520_820_530_830@yahoogroups.com, G Bay <botr8@...> wrote:

> first inprovement would be to make ur ant. into
> an inverted v, find someway to get the center up 15 or 20 ft.
> and pull the legs off at a 45 deg. or whatever angle u can get

Well, my limitation is that my house is small, on a small lot. I can put up an inverted V, but it would have to be on the side of the house as I have nothing in which to tether it. I'm concerned about RF with the few options I have. That's why I've been considering a 200' loop around the roof.

> Third a 20m dipole made from any copper wire u can find cut
> to a 1/4 wave on each end will work better than what u have.

Doesn't the 40 meter dipole I have 20 meters? Isn't 20 meter about 33 feet? Don't I have 2 wavelengths on 20 meter?

Granted, I still need height. But even if I get another antenna up, I'll probably keep this one in place for reaching skip zone.

> fourth: get a cheap key or even two wires wired to a plug for
the key
> input to the rig and closing that will key the xmitter(in the cw mode)

I have the practice oscillator/cw from MFJ. In a pinch, the key can be connected to the rig. Can I turn the Mode to CW and key up the mic for similar results?

> fifth, try a little cw in the old novice subbands, lots of guys
that send
> slow and u can work the world on 20m cw.

Granted, I do need CW practice, but my cruising speed was around 16. Passed in the military at 22.

> 73
> WB3DSJ

Thank you sir for your comments and I always look forward to others!

Frank, K2NCC

7122. Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 10:39:18 UTC
From: unifiedcourt
Topic: 7122 Message: 7122

Can someone tell me where to buy a desk mic (even a hand held mic) that I can purchase for my TS-520. Thanks....Ron KB2SQY

7123. Re: [TS-520_820_530_830] Watt Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 11:41:14 UTC
From: Walt Breining
Topic: 7123 Message: 7123

A watt meter that works well, is very accurate and not in the $200.00 range is a Drake W-4. If you keep looking, you should be able to find one in good condition for $75.00 or less.

Vy 73, Walt N9WB

7124. Re: Watt Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 11:57:25 UTC
From: lajes67
Topic: 7123 Message: 7124

Good Morning Walt;
I just read your posting about the watt meter, interesting that
at our club meeting the other night we had the TC for NLI (K2LJH)
give a very informative talk about installing radios in cars. One
of the things he mentioned was that on a lot of meters the accuracy
is sometimes on the order of plus or minus all the way up to 10%!
He gave a very good talk, basically a lot of radios on the
market now are very happy with a 2/1 SWR, he did end up by saying
that if you wanted accuracy you had to pay for it, he did mention
using a Bird and there were a lot of blank stares from a lot of the
people in the club, he had to explain what a Bird meter was. Please
keep up the very informative articles.
73 John K2IZ--- In TS-520_820_530_830@yahoogroups.com, "Walt
Breining" <n9wb@...> wrote:
>
> A watt meter that works well, is very accurate and not in the
$200.00 range
> is a Drake W-4. If you keep looking, you should be able to find
one in good
> condition for $75.00 or less.
>
> Vy 73, Walt N9WB
>

7125. Re: [TS-520_820_530_830] Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 12:22:43 UTC
From: Bob Baxter
Topic: 7122 Message: 7125

Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to $60.
Ken's Electronics at
http://www.kenselectronics.com/lists/mics.htm#Amateur
sells a hand mike for $29.

Bob Baxter aa7eq

On 4/1/06, unifiedcourt <hrhoule@earthlink.net> wrote:
> Can someone tell me where to buy a desk mic (even a hand held mic) that I
> can purchase
> for my TS-520. Thanks....Ron KB2SQY
>
>
>
>
>
> _____
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> _____
>

--
Bob Baxter AA7EQ
Walnut Ridge, Ar.

7126. Re: [TS-520_820_530_830] Re: Watt Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 12:38:18 UTC
From: Dave and Loraine
Topic: 7123 Message: 7126

Hi John,
You asked 'Watt meter should be used?'
I tried a bird but it's feathers caught fire. (It wasn't a drake...)
Next time I'll try a mallard (mullard for our English friends...)
If your neighbour has TVI, you should meter.

Happy April 1st.

7127. Re: [TS-520_820_530_830] Re: Watt Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 12:57:27 UTC
From: Walt Breining
Topic: 7123 Message: 7127

Thank You. 10% is good. a lot of cheap meters are off by 25% on watts.

I have a Bird 43 that I use for my two way work. I use a Drake W-4 in my shack.

Vy 73, Walt N9WB

----- Original Message -----
From: "lajes67" <k2iz@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, April 01, 2006 6:57 AM
Subject: [TS-520_820_530_830] Re: Watt Meter

> Good Morning Walt;
> I just read your posting about the watt meter, interesting that
> at our club meeting the other night we had the TC for NLI (K2LJH)
> give a very informative talk about installing radios in cars. One
> of the things he mentioned was that on a lot of meters the accuracy
> is sometimes on the order of plus or minus all the way up to 10%!
> He gave a very good talk, basically a lot of radios on the
> market now are very happy with a 2/1 SWR, he did end up by saying
> that if you wanted accuracy you had to pay for it, he did mention
> using a Bird and there were a lot of blank stares from a lot of the
> people in the club, he had to explain what a Bird meter was. Please
> keep up the very informative articles.
> 73 John K2IZ--- In TS-520_820_530_830@yahoogroups.com, "Walt
> Breining" <n9wb@...> wrote:
> >
> > A watt meter that works well, is very accurate and not in the
> $200.00 range
> > is a Drake W-4. If you keep looking, you should be able to find
> one in good
> > condition for $75.00 or less.
> >
> > Vy 73, Walt N9WB
> >
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>
>

7128. Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 20:43:16 UTC
From: Ravenswood
Topic: 7122 Message: 7128

--- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt"
<hrhoule@...> wrote:
>
> Can someone tell me where to buy a desk mic (even a hand held mic)
that I can purchase
> for my TS-520. Thanks....Ron KB2SQY

I use the Astatic D104 and it seems to work better than the MC-50 did,
for about the same price. Even the hams I've spoken with regarding
mics prefer the Astatic over the Kenwood mic. I bought mine on eBay,
withe the amplifier stand (UG8), cabled and ready for my boat anchor
for about 50 bucks.

7129. ts 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 20:47:49 UTC
From: budgiebob2005
Topic: 7129 Message: 7129

Can anyone advise the watts output availiable at the rear transverter socket on this transeiver. regards BOB G8ACQ

7130. Re: [TS-520_820_530_830] Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 21:43:14 UTC
From: Stephen Goldberg
Topic: 7105 Message: 7130

Frank,
Moved to a home 6 years ago where I can't erect a beam. I've been using a large horizontal wire loop fed with ladder line and a manual antenna tuner ever since. It works very well on all HF bands, even for DX. This is now my only antenna. I'm able to work into Europe, Asia, South America and the Pacific with my TS-530s. I even broke through the pile-up and worked Peter 1 island, 3Y?X on 17 meters.
Steve W4IMF

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, March 31, 2006 11:43 PM
Subject: [TS-520_820_530_830] Re: tell us about the setup you have

> --- In TS-520_820_530_830@yahoogroups.com, G Bay <botr8@...> wrote:
>
> > first inprovement would be to make ur ant. into
> > an inverted v, find someway to get the center up 15 or 20 ft.
> > and pull the legs off at a 45 deg. or whatever angle u can get
>
> Well, my limitation is that my house is small, on a small lot. I can
> put up an inverted V, but it would have to be on the side of the house
> as I have nothing in which to tether it. I'm concerned about RF with
> the few options I have. That's why I've been considering a 200' loop
> around the roof.

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.4/299 - Release Date: 3/31/06

7131. Why didn't the Kenwood Hybrids do AM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 22:19:04 UTC
From: ke9zm
Topic: 7131 Message: 7131

Was wondering why none of the Kenwood Hybrids do AM.

Looking through the circuit description, to get USB/LSB they first generate double sideband (DSB/AM) and then filter out the USB/LSB that they don't want.

If they generated DSB/AM then why didn't Kenwood offer that mode on the Hybrids?

ke9zm

7132. Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-01 22:54:13 UTC
From: Ravenswood
Topic: 7105 Message: 7132

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
<w2imf@...> wrote:

> ...I've been using a large horizontal wire loop fed with ladder line

I like the idea of a horizonal loop, but I have no place to tether it.
My tallest point on the entire lot is about 22'!

Well, someone gave me the idea, which in hindsight should have been
obvious, was to check my SWR with the antenna tuner in THROUGH to see
what my 'real' SWR is.

Oh my. I'm banging 10:1 and over on every band! Horrible. So, even
w/the tuner doing what seems to be a good job, it worries me that the
untuned resonance (?) is so far off ideals.

What should be the first thing I look at to fix this, if it's a problem?

Summary of my antenna: It's a dipole, cut 34' on each end (total 68'
length). It's connected to the tuner via a RG8 50 ohm cable, 50 feet
long. The excess is coiled. I guess it would be called center fed
since the coax connects to make a 'T' on the antenna. It's a single
band dipole. It was originally an 80-40 meter length. I cut it to
what comes out to about half it's orginial length. The online dipole
calculators say that the legnth I cut is is appropriate for 40 meter,
and I would assume, fine for 20 or 15 meter too. Please correct me if
I'm wrong in any of my assumptions!

I've also been told to make it a inverted 'V', but again, my lot
layout doesn't allow me to tether to anything. I'm also concerned
about RF if I put it on the house.

Thanks for the input Steve. Let me know what you guys think so far.

Frank, K2NCC

7133. Re: [TS-520_820_530_830] Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 00:02:53 UTC
From: Stephen Goldberg
Topic: 7105 Message: 7133

Frank,
If your dipole is cut for 40 meters you should have a low SWR on that band and it should work OK on 15 meters also, but not 20 unless you use an antenna tuner. If you want to use it on all bands you should use your antenna tuner and feed the antenna with open wire line or ladder line. Using the antenna tuner just makes your transceiver see 50 ohms even though the SWR on the feed line is high. With coax you will have quite a bit of loss in the feed line with a high SWR. Open wire line or ladder line has much, much lower loss even with a high SWR. If you are getting a 10:1 SWR on 40 without the tuner and your antenna is cut for 40 meters, then there is a problem with your antenna or coax or the connector.
Steve W4IMF

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, April 01, 2006 5:54 PM
Subject: [TS-520_820_530_830] Re: tell us about the setup you have

> --- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
> <w2imf@...> wrote:
>
> > ...I've been using a large horizontal wire loop fed with ladder line
>
> I like the idea of a horizonal loop, but I have no place to tether it.
> My tallest point on the entire lot is about 22'!
>
> Well, someone gave me the idea, which in hindsight should have been
> obvious, was to check my SWR with the antenna tuner in THROUGH to see
> what my 'real' SWR is.
>
> Oh my. I'm banging 10:1 and over on every band! Horrible. So, even
> w/the tuner doing what seems to be a good job, it worries me that the
> untuned resonance (?) is so far off ideals.
>
> What should be the first thing I look at to fix this, if it's a problem?
>
> Summary of my antenna: It's a dipole, cut 34' on each end (total 68'
> length). It's connected to the tuner via a RG8 50 ohm cable, 50 feet
> long. The excess is coiled. I guess it would be called center fed
> since the coax connects to make a 'T' on the antenna. It's a single
> band dipole. It was originally an 80-40 meter length. I cut it to
> what comes out to about half it's orginial length. The online dipole
> calculators say that the legnth I cut is is appropriate for 40 meter,
> and I would assume, fine for 20 or 15 meter too. Please correct me if

> I'm wrong in any of my assumptions!
>
> I've also been told to make it a inverted 'V', but again, my lot
> layout doesn't allow me to tether to anything. I'm also concerned
> about RF if I put it on the house.
>
> Thanks for the input Steve. Let me know what you guys think so far.
>
> Frank, K2NCC
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.4/299 - Release Date: 3/31/06

7134. Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 00:40:00 UTC
From: John Holden
Topic: 7122 Message: 7134

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
<evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt"
> <hrhoule@> wrote:
> >
> > Can someone tell me where to buy a desk mic (even a hand held mic)
> that I can purchase
> > for my TS-520. Thanks....Ron KB2SQY
>
>
> I use the Astatic D104 and it seems to work better than the MC-50 did,
> for about the same price. Even the hams I've spoken with regarding
> mics prefer the Astatic over the Kenwood mic. I bought mine on eBay,
> withe the amplifier stand (UG8), cabled and ready for my boat anchor
> for about 50 bucks.
>
I'll echo the above comments..using the amplified D104 here. That
mike, added to the already good sound of the TS520, ALWAYS sparks
comments on the audio quality when I am on the air. Just wish I was on
more often than my schedule allows. Check around the web..and any
local swap'n'shop sessions. Well worth the time investment!

John/N7IQV

7135. SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 01:17:40 UTC
From: Bill Barron
Topic: 7105 Message: 7135

With SWR over 10:1 something is basically wrong -- cold solder joint, bad Pl-259 connector, break in feedline, connected to wrong antenna jack in tuner, bad jumper cables to tuner, no ground, etc. You fence isn't metal is it?

I'd check the feedline and then the antenna out with an ohmmter to make sure it's solid.

You can check your antenna lengths here.
http://k4far.home.att.net/calc.html

Good luck!

73,
Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> Well, someone gave me the idea, which in hindsight should have been
> obvious, was to check my SWR with the antenna tuner in THROUGH to see
> what my 'real' SWR is.
>
> Oh my. I'm banging 10:1 and over on every band! Horrible. So, even
> w/the tuner doing what seems to be a good job, it worries me that the
> untuned resonance (?) is so far off ideals.
>
> What should be the first thing I look at to fix this, if it's a problem?

7136. Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 01:24:03 UTC
From: Ravenswood
Topic: 7105 Message: 7136

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg" <w2imf@...> wrote:

> If your dipole is cut for 40 meters you should have a low SWR on that band

Okay, I've rechecked all connections, and verified continuity/ground on the connections w/a multimeter.

I re-calibrated the antenna tuner, which I'm still uncertain if it's right, and I still get 10:1 or worse. That's with it in THROUGH. On 40 meters. What might be failing is my adjustment of the tuner. The manual says "With a minimum of transmit power, adjust the CAL control so the meter pointer deflects to the CAL mark." I just key up on

I've reconnected all grounds, which goes into the ground bar in the garage, where I have everything.

So, I'm still stumped as to why my SWR is so high.

> If you want to use it on all bands you should use your antenna tuner and feed the antenna with open wire line or ladder line.

Replace the coax with a ladder line or open wire? While leaving the dipole in it's place? If I understand correctly, I'll do that soon.

> on 40 without the tuner and your antenna is cut for 40 meters, then there is a problem with your antenna or coax or the connector.

I've changed cables and double-checked everything I know how. Which is limited.

Sorry if this email seems a broken sentence after another. As I did things, I typed them in.

Frank, K2NCC

7137. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 01:33:46 UTC
From: Ravenswood
Topic: 7105 Message: 7137

--- In TS-520_820_530_830@yahoogroups.com, "Bill Barron" <W1WAB@...>
wrote:
> With SWR over 10:1 something is basically wrong -- cold solder
joint, bad Pl-259 connector, break in feedline, connected to wrong antenna

I changed cables, even though they're new. Everything shows
continuity and the ground seems okay. I just reconnected the ground
line, one from the radio and one from the tuner to the ground stake.
I had it daisy-chained, from radio to the tuner to the ground, but was
told not to, in spite of what the manual says.

> You fence isn't metal is it?

OMG that made me laugh out loud! No, it's wooden, but I can see how a
metal fence might affect it. Good question.

> I'd check the feedline and then the antenna out with an ohmmter to
make sure it's solid.

Well, I checked continuity. What other things can I test with the
multimeter? What results will I be looking for?

> You can check your antenna lengths here.
> http://k4far.home.att.net/calc.html

Done. Shows that I need a dipole between 64 and 67 feet to work the
40 meter. As a 1/2 wave length dipole. My 68 feet dipole too long
maybe? Would trimming the antenna back six inches on each side make
that much of a difference?

Frank, K2NCC

7138. TUNE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 01:38:23 UTC
From: Ravenswood
Topic: 7138 Message: 7138

Oh, do I key up the mic with the 520 in TUNE to test my SWR?

7139. SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 01:51:21 UTC
From: Ravenswood
Topic: 7105 Message: 7139

Okay, it seems like I have the antenna tuner calibrated correctly now.

I switched the 520 to TUNE, and key'd the mic and now get 1:1 on 40 meters with the antenna tuner enabled.

With the antenna tuner in bypass (THROUGH) mode, I get a 5:1 on 40 meters. Still seems high.

7140. Re: [TS-520_820_530_830] Why didn't the Kenwood Hybrids do AM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 02:57:12 UTC
From: Peter A Markavage
Topic: 7131 Message: 7140

Kenwood Twins 599 series are "hybrids" and can do AM/SSB/CW. Actually they do AM very well and sound great on AM. With the addition of an interconnecting cable, they function as a transceiver.

Pete, wa2cwa

On Sat, 01 Apr 2006 22:19:04 -0000 "ke9zm" <ke9zm@...> writes:
Was wondering why none of the Kenwood Hybrids do AM.

Looking through the circuit description, to get USB/LSB they first generate double sideband (DSB/AM) and then filter out the USB/LSB that they don't want.

If they generated DSB/AM then why didn't Kenwood offer that mode on the Hybrids?

ke9zm

[Non-text portions of this message have been removed]

7141. HF net every night - 7.235 at 700 UTC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 04:26:18 UTC
From: Ravenswood
Topic: 7141 Message: 7141

Check in with your call sign, then wait to be called upon then attempt
to make two contacts with anyone you hear check in.

Good way to get your worked-all-states!

http://www.hhhnet.net/

UTC 700 is 11pm PST until tomorrow. Don't forget to set you clocks.

Frank, K2NCC

7142. Re: HF net every night - 7.235 at 700 UTC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 04:32:57 UTC
From: Ravenswood
Topic: 7141 Message: 7142

Oh, and maybe some of us can meet in the chat room here to share what contacts we've made, etc.

7143. Re: [TS-520_820_530_830] Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 05:19:02 UTC
From: Bill Scurlock
Topic: 7122 Message: 7143

HI Ron. I use the MC-50 and D-104 on several rigs, and I agree with those recommendations you have received. In addition, I also use the Shure 444 mic with my Kenwoods and Collins radios. My personal preferences would be the high impedance (original) D-104 or the Shure 444. Both these are regularly found at hamfests, on ebay, and on many other ham radio listings. The Shure 444 is a little hot for the Kenwoods, so I added a 10dB attenuator in the base - which is simply 3 resistors. Have fun.

73, Bill, K5GCW
----- Original Message -----
From: Bob Baxter
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, April 01, 2006 6:22 AM
Subject: Re: [TS-520_820_530_830] Desk Mics

Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to $60.
Ken's Electronics at
http://www.kenselectronics.com/lists/mics.htm#Amateur
sells a hand mike for $29.

Bob Baxter aa7eq

On 4/1/06, unifiedcourt <hrhoule@...> wrote:
> Can someone tell me where to buy a desk mic (even a hand held mic) that I
> can purchase
> for my TS-520. Thanks....Ron KB2SQY
>
>
>
>
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>

--
Bob Baxter AA7EQ

Walnut Ridge, Ar.

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7144. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 06:13:04 UTC
From: ke9zm
Topic: 7105 Message: 7144

The calculation of diplole length from a formula is just an approximation. Depending on your enviroment it may to be too long or too short.

Find the actual resonant point (or low swr) to determine if the resonant point is high or low from what you want. If the measured resonant point is lower than you want then you need to shorten the antenna. If the measured resonant point is higher than you want then you need to lenghen the antenna.

Best thing from the start is to cut it longer than you need and then work your way to the resonant point in steps. You can start at a longer length, measure the resonant freq, and then cut 1 inch from each end and measure again. What you are doing is calculating KHz per inch. Once you have this, you can calculate (approximate) what the actual (close to the actual) length should be and you can approach that in a couple/three steps.

Bottom line, calculated dipole lengths are approximate and you will have to refine that lengh by experiment, trial, and error.

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> Okay, it seems like I have the antenna tuner calibrated correctly now.
>
> I switched the 520 to TUNE, and key'd the mic and now get 1:1 on 40
> meters with the antenna tuner enabled.
>
> With the antenna tuner in bypass (THROUGH) mode, I get a 5:1 on 40
> meters. Still seems high.
>

7145. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 06:48:09 UTC
From: Ravenswood
Topic: 7105 Message: 7145

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
> Find the actual resonant point (or low swr) to determine if the
> resonant point is high or low from what you want.

Don't I need an antenna analyzer for this measurement? If not, what are my steps?

Seems like I just need to get another antenna up, but before I do that, I wanted to be sure that it would make enough difference w/the equipment I have.

Frank

7146. Re: [TS-520_820_530_830] Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 08:53:26 UTC
From: Kevin der Kinderen
Topic: 7105 Message: 7146

I've been reading through these notes and I wonder if there's really a problem - or at least a problem that anyone needs to be concerned about.

I run a doublet - 125 foot center fed with 600 ohm ladder line. You'd be horrified to see the SWR when I bypass my tuner. This antenna works well on all bands from 80 through 10 meters except 17... always on the tuner.

I believe that high SWR is more an issue with coax fed antennas as the coax has significantly more loss than ladder line. If you are running coax, I'd suggest trying something like the widow line (450 ohm?) to feed your antenna. You'll need a balanced input on your tuner or a balun to get it back to 50 ohm unbalanced. Keep any coax lengths short. With a setup like that, I'd forget about the antenna SWR and just use the tuner to make the rig happy.

Many people swear by resonant antennas. I'll take my all-band doublet over single-band, trap or fan antennas any day.

73,
Kevin - K4VD

[Non-text portions of this message have been removed]

7147. Re: tell us about the setup you have

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 10:20:37 UTC
From: Daniel
Topic: 7105 Message: 7147

Hi Frank

I think your antenna (Dipol) is to low off ground. I think, you will never get a good result that
way. Get them up up up up up up!!

Or make the diopl as a inverted ^ . Feed point as high as possible.

Daniel, HB9DDS

7148. Re: [TS-520_820_530_830] Why didn't the Kenwood Hybrids do AM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 11:55:16 UTC
From: Walt Breining
Topic: 7131 Message: 7148

During the late 70's, there was not much interest in H.F. AM with Radio Amateurs. The method of using filtered DSB with a carrier was not popular with those who were using AM. They preferred to use their olde plate modulated rigs for good reason.

Kenwood was not interested in their Amateur Radio gear being used illegally in other radio services. The cost of adding the additional switching and receive detector circuitry for AM was not economically feasible and it avoided misuse of their Amateur Radio equipment by non Amateurs, which was an issue with some of their Amateur Radio customers in those days.

The revival of AM in Amateur Radio came later as some of the olde gear became of nostalgic interest. While it can be made to sound good, DSB pseudo AM has some disadvantages over screen and plate modulation. The warm full sound that the olde AM rigs had can not be easily be accomplished with pseudo modulation because of the filter slopes. The filter rolls the low frequencies off. With screen and plate modulation, there is no filter.

As a point of interest, some of us have discussed the possibility of bringing the screen voltage out of the back of an FT-101 Yaesu, modulating it with a transformer or a series modulator and sending it back into the rig. The FT-101 does have AM receive capability and sounds pretty good if a 6 or 10 kHz AM filter is installed.

Now I am starting to drift off topic here and away from the original question. We probably should take any further discussion of AM other than that directly related to the Kenwoods to AMinternational or one of the Fox Tango groups.

And please do not start a thread on the non amateur use of Amateur gear pro or con. I just wanted to answer the question fully.

Vy 73, Walt N9WB

----- Original Message -----
From: "ke9zm" <ke9zm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, April 01, 2006 5:19 PM
Subject: [TS-520_820_530_830] Why didn't the Kenwood Hybrids do AM

> Was wondering why none of the Kenwood Hybrids do AM.
>
> Looking through the circuit description, to get USB/LSB they first
> generate double sideband (DSB/AM) and then filter out the USB/LSB that
> they don't want.
>
> If they generated DSB/AM then why didn't Kenwood offer that mode on

> the Hybrids?
>
> ke9zm

7149. Re: Why didn't the Kenwood Hybrids do AM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 11:41:04 UTC
From: budgiebob2005
Topic: 7131 Message: 7149

-Ts820M
THis model with AM was apparently released for the european market. I have one off these which I aquired for a swop and I am slowly working through it. In doing so I can tell you all that there are some signifiant differances to the basic 820 ie completly new if panel [This caused me some grief untill I found a 820m manual on internet ,sorry cant remember source]. but this also shows that this model was ready for warc bands [although disabled]untill bands were released manual gives unlock mods . Hope this helps regards BOB G8ACQ

-- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> During the late 70's, there was not much interest in H.F. AM with Radio
> Amateurs. The method of using filtered DSB with a carrier was not popular
> with those who were using AM. They preferred to use their olde plate
> modulated rigs for good reason.
>
> Kenwood was not interested in their Amateur Radio gear being used illegally
> in other radio services. The cost of adding the additional switching and
> receive detector circuitry for AM was not economically feasible and it
> avoided misuse of their Amateur Radio equipment by non Amateurs, which was
> an issue with some of their Amateur Radio customers in those days.
>
> The revival of AM in Amateur Radio came later as some of the olde gear
> became of nostalgic interest. While it can be made to sound good, DSB pseudo
> AM has some disadvantages over screen and plate modulation. The warm full
> sound that the olde AM rigs had can not be easily be accomplished with
> pseudo modulation because of the filter slopes. The filter rolls the low
> frequencies off. With screen and plate modulation, there is no filter.
>

> As a point of interest, some of us have discussed the possibility
of
> bringing the screen voltage out of the back of an FT-101 Yaesu,
modulating
> it with a transformer or a series modulator and sending it back
into the
> rig. The FT-101 does have AM receive capability and sounds pretty
good if a
> 6 or 10 kHz AM filter is installed.
>
> Now I am starting to drift off topic here and away from the
original
> question. We probably should take any further discussion of AM
other than
> that directly related to the Kenwoods to AMinternational or one
of the Fox
> Tango groups.
>
> And please do not start a thread on the non amateur use of Amateur
gear pro
> or con. I just wanted to answer the question fully.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "ke9zm" <ke9zm@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, April 01, 2006 5:19 PM
> Subject: [TS-520_820_530_830] Why didn't the Kenwood Hybrids do AM
>
>
> > Was wondering why none of the Kenwood Hybrids do AM.
> >
> > Looking through the circuit description, to get USB/LSB they
first
> > generate double sideband (DSB/AM) and then filter out the
USB/LSB that
> > they don't want.
> >
> > If they generated DSB/AM then why didn't Kenwood offer that mode
on
> > the Hybrids?
> >
> > ke9zm
>

7150. Re: [TS-520_820_530_830] Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 13:00:37 UTC
From: Ronald Houle
Topic: 7122 Message: 7150

Thanks for the info.....you guys have been great help....ron

On 4/2/06 12:19 AM, "Bill Scurlock" <k5gcw@...> wrote:

> HI Ron. I use the MC-50 and D-104 on several rigs, and I agree with those
> recommendations you have received. In addition, I also use the Shure 444 mic
> with my Kenwoods and Collins radios. My personal preferences would be the
> high impedance (original) D-104 or the Shure 444. Both these are regularly
> found at hamfests, on ebay, and on many other ham radio listings. The Shure
> 444 is a little hot for the Kenwoods, so I added a 10dB attenuator in the base
> - which is simply 3 resistors. Have fun.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Bob Baxter
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, April 01, 2006 6:22 AM
> Subject: Re: [TS-520_820_530_830] Desk Mics
>
>
> Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to $60.
> Ken's Electronics at
> http://www.kenselectronics.com/lists/mics.htm#Amateur
> sells a hand mike for $29.
>
> Bob Baxter aa7eq
>
> On 4/1/06, unifiedcourt <hrhoule@...> wrote:
>> > Can someone tell me where to buy a desk mic (even a hand held mic)
>> that I
>> > can purchase
>> > for my TS-520. Thanks....Ron KB2SQY
>> >
>> >
>> >
>> >
>> >
>> > _________________________________
>> > YAHOO! GROUPS LINKS
>> >
>> >
>> > Visit your group "TS-520_820_530_830" on the web.
>> >
>> > To unsubscribe from this group, send an email to:
>> > TS-520_820_530_830-unsubscribe@yahoogroups.com

>> >
>> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>> >
>> > _____________________________
>> >
>
>
> --
> Bob Baxter AA7EQ
> Walnut Ridge, Ar.
>
>
> --
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
> --
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> SPONSORED LINKS
>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=
> Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby and
> craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Cr
> aft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *

> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7151. Re: [TS-520_820_530_830] Re: Why didn't the Kenwood Hybrids do AM

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 18:13:57 UTC
From: Peter A Markavage
Topic: 7131 Message: 7151

The TS-830M, with AM capability, was also in the market along with the TS-830S, but was not sold in the U. S. They both used the same IF board, included a 6 KHz filter for AM, and a small additional board with some components, relays, etc. to provide the AM functionality. Output was generally around 25 watts in the AM mode. The "CW Wide" on the function switch of the 830S became the AM position on the 830M. As soon as Kenwood introduced their all solid-state HF rigs, AM was part of the functionality. The service manual for the 830S also includes the AM board addition for the 830M. There was some misguided attempt by a number of people during the late 70's to "kill" AM once and for all. Fortunately, many AM operators held their position and resisted the attempt. Now the majority of all HF rigs include the AM mode and with DSP functionality and state of the art phasing type AM modulation, most today should just as good, if not better, then the plate modulated rigs of the 50's.

Pete, wa2cwa

On Sun, 02 Apr 2006 11:41:04 -0000 "budgiebob2005"
<budgiebob@...> writes:
-Ts820M
THis model with AM was apparently released for the european market. I have one off these which I aquired for a swop and I am slowly working through it. In doing so I can tell you all that there are some signifiant differances to the basic 820 ie completly new if panel [This caused me some grief untill I found a 820m manual on internet ,sorry cant remember source]. but this also shows that this model was ready for warc bands [although disabled]untill bands were released manual gives unlock mods . Hope this helps regards BOB G8ACQ

-- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@...> wrote:
>
> During the late 70's, there was not much interest in H.F. AM with Radio
> Amateurs. The method of using filtered DSB with a carrier was not popular
> with those who were using AM. They preferred to use their olde plate
> modulated rigs for good reason.
>
> Kenwood was not interested in their Amateur Radio gear being used illegally
> in other radio services. The cost of adding the additional switching and
> receive detector circuitry for AM was not economically feasible

and it
> avoided misuse of their Amateur Radio equipment by non Amateurs,
which was
> an issue with some of their Amateur Radio customers in those days.
>
> The revival of AM in Amateur Radio came later as some of the olde
gear
> became of nostalgic interest. While it can be made to sound good,
DSB pseudo
> AM has some disadvantages over screen and plate modulation. The
warm full
> sound that the olde AM rigs had can not be easily be accomplished
with
> pseudo modulation because of the filter slopes. The filter rolls
the low
> frequencies off. With screen and plate modulation, there is no
filter.
>
> As a point of interest, some of us have discussed the possibility
of
> bringing the screen voltage out of the back of an FT-101 Yaesu,
modulating
> it with a transformer or a series modulator and sending it back
into the
> rig. The FT-101 does have AM receive capability and sounds pretty
good if a
> 6 or 10 kHz AM filter is installed.
>
> Now I am starting to drift off topic here and away from the
original
> question. We probably should take any further discussion of AM
other than
> that directly related to the Kenwoods to AMinternational or one
of the Fox
> Tango groups.
>
> And please do not start a thread on the non amateur use of Amateur
gear pro
> or con. I just wanted to answer the question fully.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "ke9zm" <ke9zm@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, April 01, 2006 5:19 PM
> Subject: [TS-520_820_530_830] Why didn't the Kenwood Hybrids do AM
>
>
> > Was wondering why none of the Kenwood Hybrids do AM.

> >
> > Looking through the circuit description, to get USB/LSB they
first
> > generate double sideband (DSB/AM) and then filter out the
USB/LSB that
> > they don't want.
> >
> > If they generated DSB/AM then why didn't Kenwood offer that mode
on
> > the Hybrids?
> >
> > ke9zm
>

[Non-text portions of this message have been removed]

7152. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 18:35:21 UTC
From: ke9zm
Topic: 7105 Message: 7152

You don't need an antenna analyzer. Just make SWR measurements at the low end and at the high end of the part of the band you are licensed for. The goal is to find out if a lower SWR is found at the low end or high end of the band and from that determine if you anttenna is too long or too short. If the high SWR is constant across the band then the antenna is way off or there is some other problem not related to the length of the antenna.

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@> wrote:
> > Find the actual resonant point (or low swr) to determine if the
> > resonant point is high or low from what you want.
>
> Don't I need an antenna analyzer for this measurement? If not, what
> are my steps?
>
> Seems like I just need to get another antenna up, but before I do
> that, I wanted to be sure that it would make enough difference w/the
> equipment I have.
>
> Frank
>

7153. Desk Mic: MC-50 PTT Switch Noise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 18:55:38 UTC
From: Mike Lewis
Topic: 7122 Message: 7153

Hello everyone,

This is my first post to the group. I'm assembling a TS-530S station as I study for my General. I am enjoying reading the comments here about these find Kenwood transceivers.

I bought a very good condition Kenwood MC-50 mic last week and noticed one thing about it. The plastic PTT switch on the base really squeaks when you depress it. I'm going to take it apart to see if I can eliminate this noise. It is so loud that
I'm afraid it would come over the air (through the mic) when keyed. Anyway else notice this with their MC-50's?

I have an Astatic D-104 from my "CB days" 20 years back and its PTT (side mounted) switch is all metal and very quiet. I may wind up using that mic with the TS-530S.
73's,

Mike
KA4JGP

7154. Re: [TS-520_820_530_830] Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 20:00:54 UTC
From: Kevin der Kinderen
Topic: 7105 Message: 7154

I mis-stated something:

"You'll need a balanced input on your tuner or a balun to get it back to 50 ohm unbalanced."

Change that to ...to get back to unbalanced. The goal of the ladder line fed doublet is not to present 50 ohms but to reduce the SWR losses with the use of open wire line. The actual impedance presented to the tuner doesn't make much difference as long as the tuner can handle it. There are online references that can explain this a lot better than I can.

73,
Kev - K4VD

On 4/2/06, Kevin der Kinderen <kkinderen@...> wrote:
>
> I've been reading through these notes and I wonder if there's really a
> problem - or at least a problem that anyone needs to be concerned about.
>
> I run a doublet - 125 foot center fed with 600 ohm ladder line. You'd be
> horrified to see the SWR when I bypass my tuner. This antenna works well on
> all bands from 80 through 10 meters except 17... always on the tuner.
>
> I believe that high SWR is more an issue with coax fed antennas as the
> coax has significantly more loss than ladder line. If you are running coax,
> I'd suggest trying something like the widow line (450 ohm?) to feed your
> antenna. You'll need a balanced input on your tuner or a balun to get it
> back to 50 ohm unbalanced. Keep any coax lengths short. With a setup like
> that, I'd forget about the antenna SWR and just use the tuner to make the
> rig happy.
>
> Many people swear by resonant antennas. I'll take my all-band doublet over
> single-band, trap or fan antennas any day.
>
> 73,
> Kevin - K4VD
>

[Non-text portions of this message have been removed]

7155. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 21:11:27 UTC
From: lajes67
Topic: 7105 Message: 7155

I realize I am probably joining in this a bit late but I noticed one thing - you said you connected the radio and the tuner to the ground stake- what is the electric feeding your house grounded to? My reason for asking is over the years I have to come to find that all grounds are not equal - example: when I first moved into my house I had 2 choices on where to hook the ground, the water pipe coming in off the "street" or an old well pipe sticking out of my basement floor. The A/C feed was grounded to the water pipe off the street but for reasons I no longer remember I hooked the reaio to the well pipe. Among other problems I managed to raise a nice blister on one on my fingers when I touched something while I was keying. My neighbor, K2TV, who was working for CBS-TV - senior video engineer - very patiently reviewed with me the subject of proper grounding and how everything must be bonded to the same ground. In my many years working for the phone company, that fact has help solve some rather interesting problems, both in data, voice and video, everything must be bonded to the same ground.
On the subject of antennas themselves, my first antenna was a piece of wire, about 135' long, strung through trees, no more than 15' off the ground and I used an LC network to "tune" it, end fed style. The coil was tapped and I used it for 80 and 40, I didn't know if it would work on anything else but work it did. In this group you have access to a lot of sources, at the time I first became active I kept getting referred to the ARRL books, I learned a lot from them, now it is interesting to see so many people willing to help.
73 John K2IZ --- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Barron" <W1WAB@>
> wrote:
> > With SWR over 10:1 something is basically wrong -- cold solder
> joint, bad Pl-259 connector, break in feedline, connected to wrong antenna
>
> I changed cables, even though they're new. Everything shows
> continuity and the ground seems okay. I just reconnected the ground
> line, one from the radio and one from the tuner to the ground stake.
> I had it daisy-chained, from radio to the tuner to the ground, but was
> told not to, in spite of what the manual says.
>
> > You fence isn't metal is it?

>
> OMG that made me laugh out loud! No, it's wooden, but I can see
how a
> metal fence might affect it. Good question.
>
> > I'd check the feedline and then the antenna out with an ohmmter
to
> make sure it's solid.
>
> Well, I checked continuity. What other things can I test with the
> multimeter? What results will I be looking for?
>
> > You can check your antenna lengths here.
> > http://k4far.home.att.net/calc.html
>
> Done. Shows that I need a dipole between 64 and 67 feet to work
the
> 40 meter. As a 1/2 wave length dipole. My 68 feet dipole too long
> maybe? Would trimming the antenna back six inches on each side
make
> that much of a difference?
>
> Frank, K2NCC
>

7156. Antenna info at this site / SWR, Grounds, Dipoles, Verticals, etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 21:19:29 UTC
From: ke9zm
Topic: 7156 Message: 7156

For those of you messing with antennas... , this is one of the best reference sites I have found..

http://www.cebik.com/radio.html

ke9zm

7157. what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 22:46:50 UTC
From: Ravenswood
Topic: 7157 Message: 7157

I hate to ask in fear of seeming dense, but I'm not finding that word anywhere in the manual. Thank you!

7158. Re: Desk Mic: MC-50 PTT Switch Noise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 23:25:36 UTC
From: ve3prb
Topic: 7122 Message: 7158

Hi Mike
I too have a squeaky MC-50, I have tried all kinds of different light grease's on the PTT pivots but the squeak always comes back after a spell.
Good Luck

Peter, VA3XH

7159. Re: what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-02 23:45:02 UTC
From: Bill Barron
Topic: 7157 Message: 7159

Hmm. Didn't think the TS-520 had a preselector knob; though I do have one on my older TS-599. A preselector is a circuit that tunes a receiver's signal amplifying circuitry for maximum sensitivity on a desired frequency range.

73,
Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> I hate to ask in fear of seeming dense, but I'm not finding that word
> anywhere in the manual. Thank you!
>

7160. Re: [TS-520_820_530_830] what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 00:03:09 UTC
From: Peter A Markavage
Topic: 7157 Message: 7160

Cause there is no preselector in the TS-520. If you really mean adjusting the "drive" control for maximum receiver sensitivity, all that it is doing is tuning the antenna and mixer coils.

Pete, wa2cwa

On Sun, 02 Apr 2006 22:46:50 -0000 "Ravenswood" <evokefrank@...> writes:
I hate to ask in fear of seeming dense, but I'm not finding that word anywhere in the manual. Thank you!

[Non-text portions of this message have been removed]

7161. Re: [TS-520_820_530_830] Re: what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 00:13:40 UTC
From: bob54quam@cs.com
Topic: 7157 Message: 7161

The "drive" control is what functions as a preselector in receive.
Bob
KI0KM

[Non-text portions of this message have been removed]

7162. Re: Desk Mic: MC-50 PTT Switch Noise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 00:31:04 UTC
From: Ravenswood
Topic: 7122 Message: 7162

--- In TS-520_820_530_830@yahoogroups.com, "ve3prb" <ve3prb@...> wrote:
>
> Hi Mike
> I too have a squeaky MC-50, I have tried all kinds of different light
> grease's on the PTT pivots but the squeak always comes back after a
spell.
> Good Luck
>
> Peter, VA3XH
>

I too have a problem w/the MC-50, the LOCK option doesn't stay in the locked position. I took it apart to see what was obvious, but didn't find anything. If I take the pressure of the PTT key off of the lock, the lock stays in place. Otherwise, it pops right out when I try to lock it.

It's my backup mic, so it's not a big problem, but any ideas?

Frank, K2NCC

7163. Re: [TS-520_820_530_830] what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 00:36:05 UTC
From: amfone@sbcglobal.net
Topic: 7157 Message: 7163

Try the Driver control. This tunes for both xmit and receive.
73
tim
wb8uhz
----- Original Message -----
From: Ravenswood
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, April 02, 2006 6:46 PM
Subject: [TS-520_820_530_830] what is the 'preselector' on the TS-520?

I hate to ask in fear of seeming dense, but I'm not finding that word
anywhere in the manual. Thank you!

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7164. Re: [TS-520_820_530_830] Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 03:32:49 UTC
From: Brent W. Baum
Topic: 7105 Message: 7164

Is it raining and is your fence wet? I had a wire antenna up in some cotton wood trees in New Mexico (very dry climate) when it got damp outside my SWR went wild. Try better insulation between the wire and the fence, see if that helps.
Brent, K7MEI

Brent W. Baum
Assistant Director - PWI

Career Services & Student Employment
Utah Valley State College
800 West University Parkway
Orem, UT 84058-5999
(801) 863-8711
(801) 863-8051 fax
baumbr@...
>>> evokefrank@... 04/01/06 6:33 PM >>>
--- In TS-520_820_530_830@yahoogroups.com, "Bill Barron" <W1WAB@...>
wrote:
> With SWR over 10:1 something is basically wrong -- cold solder
joint, bad Pl-259 connector, break in feedline, connected to wrong antenna

I changed cables, even though they're new. Everything shows
continuity and the ground seems okay. I just reconnected the ground
line, one from the radio and one from the tuner to the ground stake.
I had it daisy-chained, from radio to the tuner to the ground, but was
told not to, in spite of what the manual says.

> You fence isn't metal is it?

OMG that made me laugh out loud! No, it's wooden, but I can see how a
metal fence might affect it. Good question.

> I'd check the feedline and then the antenna out with an ohmmter to
make sure it's solid.

Well, I checked continuity. What other things can I test with the
multimeter? What results will I be looking for?

> You can check your antenna lengths here.
> http://k4far.home.att.net/calc.html

Done. Shows that I need a dipole between 64 and 67 feet to work the
40 meter. As a 1/2 wave length dipole. My 68 feet dipole too long
maybe? Would trimming the antenna back six inches on each side make
that much of a difference?

Frank, K2NCC

Yahoo! Groups Links

7165. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 03:41:08 UTC
From: Ravenswood
Topic: 7105 Message: 7165

--- In TS-520_820_530_830@yahoogroups.com, "Brent W. Baum" <baumbr@...> wrote:
> Is it raining and is your fence wet? I had a wire antenna up in some cotton wood trees in New Mexico (very dry climate) when it got damp outside my SWR went wild. Try better insulation between the wire and the fence, see if that helps.

Yup, just became aware of the wet fence issue today! Your feedback doubles that. I was told to get some wire standoffs, but I can't seem to find what I need. If anyone has a link, plz post it.

Thanks Brent!

73 Frank, K2NCC

7166. 6146w max plate voltage ... Exceeded in Kenwood Hybrids ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 05:55:23 UTC
From: ke9zm
Topic: 7166 Message: 7166

Was talking to an "old timer" who had a lot of radios. He owned a few Kenwood Hybrids in the 1980's.

Told me that Kenwood exceeds the Max Plate voltage for a 6146x tube.

I checked some tube data and sure enough the max plate voltage is about 750V depending on application.

http://www.nj7p.org/Tube1.php?tube=6146w

My meter on all three of my kenwoods read HV 800+ volts. If this is the voltage on the plate then that's +50v over max for the tube. If this is not what is on the plate then what is this HV reading and how much would be on the plate?

ke9zm

7167. what is this sound?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 08:15:05 UTC
From: Ravenswood
Topic: 7167 Message: 7167

I hear this on my rig, maybe you do too, but I've been unable to identify it. I've listened through all my ham radio sound samples and can't match it. 7.200 is the only freq I hear it on.

I recorded a small sample of it (168Kb) and posted it here:
http://videos.eagleeyecomputer.com/7.200_USB.mp3

Anyone know?

7168. Re: [TS-520_820_530_830] what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 09:23:03 UTC
From: Walt Breining
Topic: 7157 Message: 7168

My Mess up! I told you Preselector. With Kenwoods, it is the Drive control.
I have been over on the Fox Tango (Yaesu) forum too much lately.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 02, 2006 5:46 PM
Subject: [TS-520_820_530_830] what is the 'preselector' on the TS-520?

> I hate to ask in fear of seeming dense, but I'm not finding that word
> anywhere in the manual. Thank you!
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

7169. Re: what is this sound?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 08:21:53 UTC
From: ke9zm
Topic: 7167 Message: 7169

> can't match it. 7.200 is the only freq I hear it on.

Check the 40m band plan - 7.171 is SSTV

ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
<evokefrank@...> wrote:
>
> I hear this on my rig, maybe you do too, but I've been unable to
> identify it. I've listened through all my ham radio sound samples
and
> can't match it. 7.200 is the only freq I hear it on.
>
> I recorded a small sample of it (168Kb) and posted it here:
> http://videos.eagleeyecomputer.com/7.200_USB.mp3
>
> Anyone know?
>

7170. Re: what is the 'preselector' on the TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 08:26:24 UTC
From: Ravenswood
Topic: 7157 Message: 7170

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
> My Mess up! I told you Preselector. With Kenwoods, it is the Drive
control.

Thank you for that and your email Walt. I sent a reply, let me know
if you didn't RX.

73 Frank, K2NCC

7171. Re: what is this sound?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 08:28:22 UTC
From: Ravenswood
Topic: 7167 Message: 7171

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:

> Check the 40m band plan - 7.171 is SSTV
>
> ke9zm

That's what I thought, but it's a constant sound without the
variations I normally hear with SSTV and doesn't display on my SSTV
program as anything other than noise.

7172. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 11:04:39 UTC
From: Ravenswood
Topic: 7099 Message: 7172

I've uploaded the aticle for enabling WARC bands for the TS-820 here:

http://videos.eagleeyecomputer.com/TS820_WARC_mod.pdf

My server space is limited, but I'll leave it there as long as I can.

File size is about 5 1/2 megs. It's a little bit easier to read than
the RUBE copy, but it's the same info.

Hope that helps.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I agree,
>
> I wouldn't mind adding the WARC bands (even just 1 band would be
> nice). I tried the RUBE site, but you need to be a member to access
> the site. Also, does anybody know if these Warc band mods are
> doable, without sacrificing, any of the bands this fine radio
> already has?
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "rick" <xbrnr@> wrote:
> >
> > Hi all,
> > Does anyone know where I can get a copy of the WARC band mods for
> the
> > TS 820?Has anyone here actually done the mods?
> >
> > Thanks
> > Rick KA2PBO

7173. RE: [TS-520_820_530_830] Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 15:31:28 UTC
From: Hauser, Ron M.
Topic: 7105 Message: 7173

Hi Frank. Like Kevin, I've been reading along, and I don't think you should spend too much effort trying to modify this antenna. I am a pretty new ham, got licensed about a year ago, and I have gone through nearly the exact same antenna excersize that you are going through right now. I don't have any trees, I don't have much space on my lot, and my house is single story providing maybe at the highest point 20' of elevation (at my chimney). I spent a lot of time manipulating and analyzing a wire antenna that runs from the fence, up to the chimney, and back down to the fence. I've analyzed coax and twinlead, but the feedpoint is only about 60 feet from the radio. After spending a lot of time experimenting and thinking about this antenna, I've determined that it is a good radiator for 40m high angle radiation, and that is a good thing. Various tweaks and adjustments have not yielded noticeable improvement on the air.

Your low, 68' dipole is a good antenna for short range, NVIS contacts on 40m. It is a half wave on 40m, more or less, and you can use your tuner to make it match your rig. You should have a pretty low SWR, but don't get too excited about it -- because -- with only 50 feet of coax, your actual losses are not going to be extraordinary. It is true that on some bands the antenna will have high impedance. On 20m your antenna is close to 1 wavelength, so it will probably be showing your coax a very high SWR, and yes, your coax will be operating in a lossy condition. But you still only have 50 feet of coax, so the attenuation of your signal isn't going to be that big of a deal compared to the propagation situation. If you can conveniently switch your feedline to balanced twinlead, the antenna will be as good as it is going to be for a low to ground radiator. You could really optimize this antenna for other bands, making it a really efficient radiator with minimal losses on 20m or 15m. But since it is low to the ground, it is still going to be a high angle radiator, so would still only make short range contacts, and only when the higher band propagation is "in." I think that this propagation issue is going to be more important to your operating enjoyment than the antenna efficiency.

A low 40m low dipole, with high angle radiation, is a good antenna for making contacts, because 40m propagation is good for high angle paths quite often. All day most days, and much of the night many days of the year. High angle paths on 40m will yield surprising DX contacts at night in the dead of winter when the band is very quiet. Contrarily, a 20m or 15m high angle radiation antenna is much more frustrating to use because there are fewer hours of the day, and fewer days of the year, when propagation supports a contact. Operating a low dipole on 40m will be much more enjoyable than trying to make contacts on a low 20m dipole. So I'd leave it alone, or if it is convenient just replace the coax with

twinlead -- then move on to a different antenna experiment! If you can't get a 40m dipole up 60 feet to make it into a "good" antenna, perhaps you can figure out how to get a 20m dipole up 30 feet to make a "good" antenna. (That is what I'm working on now).

73
--Ron
KC0TLN

7174. RE: [TS-520_820_530_830] Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 17:54:54 UTC
From: dave@zievid.com
Topic: 7105 Message: 7174

> <Snipped good advice> ... You should have a pretty low SWR, but don't
> get too excited about it -- because -- with only 50 feet of coax, your
> actual losses are not going to be extraordinary. It is true that on
> some bands the antenna will have high impedance. On 20m your antenna is
> close to 1 wavelength, so it will probably be showing your coax a very
> high SWR, and yes, your coax will be operating in a lossy condition.
> <more stuff snipped>

... if you do enjoy calculating all this, and can model or measure the SWR
on various bands, it's easy to calculate feedline loss with some of the
online calculators. Enter the coax type and conditions and they'll tell
you how much power you're losing. This is one I use:

http://www.ocarc.ca/coax.htm

While the power lost can sometimes seem large, remember how it all works
with db and if the other station can actually hear the difference or not.
It can help determine if switching feedlines is worth the effort.

Hope this helps,

- Dave
W6OT

7175. Re: what is this sound? / Digital SSVideo

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 20:30:01 UTC
From: ke9zm
Topic: 7167 Message: 7175

OK

Let me try again, 7.173 is Digital SSVideo

http://www.baldeaglejournal.com/digSSV.htm

What do you think of Digital SSVideo -- now heard daily on 14.233 KHz, 7.228 KHz and 7.173 KHz? Digital is a different ballgame and a bit more complex to understand. Whereas Analogue SSTV sends information a line at a time (like Facsimile) and color information is sent sequentially, the Digital system sends blocks or segments of information.....

ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>
> > can't match it. 7.200 is the only freq I hear it on.
>
> Check the 40m band plan - 7.171 is SSTV
>
> ke9zm
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
> <evokefrank@> wrote:
> >
> > I hear this on my rig, maybe you do too, but I've been unable to
> > identify it. I've listened through all my ham radio sound
samples
> and
> > > can't match it. 7.200 is the only freq I hear it on.
> >
> > I recorded a small sample of it (168Kb) and posted it here:
> > http://videos.eagleeyecomputer.com/7.200_USB.mp3
> >
> > Anyone know?
> >
>

7176. Whats with these RF Parts guys .... Upselling via technical spin? GE 6146W

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-03 22:14:12 UTC
From: ke9zm
Topic: 7176 Message: 7176

Last week I ordered a couple of GE 6146W tubes from RF Parts.. On the phone the sales guy said that brand (GE) "not recommended" for Kenwood Hybrids.

The sales guy tried to upsell me on on the Sylvania 6146W and told me that those were recommended for the Kenwood...

The GE 6 146W are $40/pair
The Syl 6146W are $60/pair
or ... 50% more $$

So, based on my research and info here on this newsgroup I bought the 2 x GE 6146W.

They arrived today and I even got it in writing on the Invoice..

"CUSTOMER WAS ADVISED THE ABOVE TUBES NOT RECOMMENDED FOR USE IN KENWOOD RADIOS"

So, what is going on here? Has RF Parts technical folks surrendered to the marketing folks spinng their technical advice just to upsell you on a brand tube that cost 50% more when you don't need it? If so, thats too bad... If they are "not recommended" then why not? The sales guy cited only "experince" but no technical reason.

On top of that, one of the tubes JAN 6146W arrived with the glass envelope loose from the base.

So, what's the straight dope... ?

ke9zm

7177. Re: [TS-520_820_530_830] Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 00:52:45 UTC
From: rick kirby
Topic: 7099 Message: 7177

Thanks Frank!!!
Thats exactly what I was looking for!

Rick KA2PBO

Ravenswood <evokefrank@...> wrote:
I've uploaded the aticle for enabling WARC bands for the TS-820 here:

http://videos.eagleeyecomputer.com/TS820_WARC_mod.pdf

My server space is limited, but I'll leave it there as long as I can.

File size is about 5 1/2 megs. It's a little bit easier to read than
the RUBE copy, but it's the same info.

Hope that helps.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I agree,
>
> I wouldn't mind adding the WARC bands (even just 1 band would be
> nice). I tried the RUBE site, but you need to be a member to access
> the site. Also, does anybody know if these Warc band mods are
> doable, without sacrificing, any of the bands this fine radio
> already has?
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "rick" <xbrnr@> wrote:
> >
> > Hi all,
> > Does anyone know where I can get a copy of the WARC band mods for
> the
> > TS 820?Has anyone here actually done the mods?
> >
> > Thanks
> > Rick KA2PBO

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Yahoo! Messenger with Voice. PC-to-Phone calls for ridiculously low rates.

[Non-text portions of this message have been removed]

7178. oscilliscope use with rigs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 01:54:07 UTC
From: Ravenswood
Topic: 7178 Message: 7178

I have an oscilliscope (20mhz analog w/function gen) that's sitting around doing nothing. Can I get some pretty pictures if I attach it to the TS-520 or something? Any ideas?

7179. 530S 800v supply filter capacitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 01:56:28 UTC
From: alicein49
Topic: 7179 Message: 7179

Hi everyone. The name is Geoff and this is my first message to the group, though I've been enjoying the contributions and discussions over the last couple of months. The level and maturity of advice and discussion in this group is most impressive - perhaps a reflection of the types of folk that buy and treasure old Kenwoods.

To business. I have a 530S with reduced (50%) power out and low HV = about 450 volts with heaters running. The problem (a common one, I believe)is a shorted filter capacitor C22/C24. I have sourced a local supplier in Sydney Australia - RS Components - who have 120uf, 500v caps at A$17.40 each. Physical compatibility is yet to be confirmed, but looks OK from the website description.

Could anyone advise whether there is anything to be wary of in selecting a replacement apart from the obvious: voltage rating etc. Also, are there any Aussies who may be aware of other possible replacements for these components available locally? Thanks and regards to everyone, Geoff Hegarty.

7180. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 04:22:59 UTC
From: Ellen R
Topic: 7099 Message: 7180

No Problem :),

Sorry I took so long to reply. I've been sick for the last few days.
By the way, thanks for putting the RUBE website TS-820 WARC mods, in an easily accessable .pdf file. I really apperciate that! :) I downloaded it, and added it to my TS-820 reference files.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
> >
> > Like I said, the TS-820, not the 830.
>
>
> Oops, I'm sorry. I thought they were close enough in design to work.
>
> Good luck,
>
> Frank
>

7181. Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 04:29:36 UTC
From: Ellen R
Topic: 7122 Message: 7181

Ummm, if you don't mind a hand mic, try Ken's Electronics. He sells high impedance mics (both hand, and I think desk) for the Kenwood hybrids. Here's the URL for his mic webpage:

http://www.kenselectronics.com/lists/mics.htm#Amateur

Remember, nominal impedance for the TS-520s (and 820S) is 50k ohms.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt" <hrhoule@...> wrote:
>
> Can someone tell me where to buy a desk mic (even a hand held mic) that I can purchase
> for my TS-520. Thanks....Ron KB2SQY
>

7182. 6146w max plate voltage ... Exceeded in Kenwood Hybrids ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 04:56:14 UTC
From: Bruce Wright
Topic: 7166 Message: 7182

Dear Fellow Group Members...

While it's true that the HV is above max for this tube, 6146B's have demonstrated the ability to run at near 1000 volts as long as the total plate dissipation is not exceeded in accordance with intended service and duty cycle demands...Indeed, the 1966 ARRL Handbook has a construction article for a grid driven, bandswitching amplifier for 80 thru 10 meters with 2 parallel 6146B's running with 1kv on the plates.

However, having said that, I prefer to stay within the operating voltage, current and plate dissipation ratings as recommended by the tube manufacturer...Tubes, such as the 6146/A/B/W are not getting any cheaper.

FWIW

Bruce
WC5CW

Was talking to an "old timer" who had a lot of radios. He owned a few Kenwood Hybrids in the 1980's.

Told me that Kenwood exceeds the Max Plate voltage for a 6146x tube.

I checked some tube data and sure enough the max plate voltage is about 750V depending on application.

http://www.nj7p.org/Tube1.php?tube=6146w

My meter on all three of my kenwoods read HV 800+ volts. If this is the voltage on the plate then that's +50v over max for the tube. If this is not what is on the plate then what is this HV reading and how much would be on the plate?

ke9zm

7183. Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 07:17:41 UTC
From: ke9zm
Topic: 7183 Message: 7183

I saw Ellens posting about Desk Mics and for those of you new to the Hybrids and buy a MC-50 without the Manual... be aware that this is a dual impedance mic and its not at all obvious how to change from High to Low Z. At least when I got mine, it was a mystery without the manual.

The MC-50 has a barrel with red and black dots and depending on how you attach one of the cords its going to have a different impedance.

Low Z is 600 Ohms for Moden rigs
High Z is 50,000 Ohms for Kenwood Hybrids.

The 520 and 820 want the High Z
The manual for the 830 says it will work with both - but I use Hi Z on all of my Hybrids

If you dont have a MC-50 Manual - take it from here.
http://frrl.dyndns.org/frrlnetannex/ClassicRadios_Manuals/

Take it, I am not promising to maintain this site.

ke9zm

7184. RE: [TS-520_820_530_830] Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 10:52:48 UTC
From: Jack Rubin
Topic: 7183 Message: 7184

tnx!!

> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ke9zm
> Sent: Tuesday, April 04, 2006 2:18 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Watch Dual Impedance MC-50 on
> Hybrids - TS520/820
>
>
> I saw Ellens posting about Desk Mics and for those of you new to the
> Hybrids and buy a MC-50 without the Manual... be aware that this is
> a dual impedance mic and its not at all obvious how to change from
> High to Low Z. At least when I got mine, it was a mystery without
> the manual.
>
> The MC-50 has a barrel with red and black dots and depending on how
> you attach one of the cords its going to have a different impedance.
>
> Low Z is 600 Ohms for Moden rigs
> High Z is 50,000 Ohms for Kenwood Hybrids.
>
> The 520 and 820 want the High Z
> The manual for the 830 says it will work with both - but I use Hi Z
> on all of my Hybrids
>
> If you dont have a MC-50 Manual - take it from here.
> http://frrl.dyndns.org/frrlnetannex/ClassicRad> ios_Manuals/
>
>
> Take it, I am not promising to maintain this
> site.
>
> ke9zm
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.385 / Virus Database: 268.3.5/300 - Release
> Date: 4/3/2006
>
>

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.3.5/300 - Release Date: 4/3/2006

7185. Re: [TS-520_820_530_830] Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 13:10:38 UTC
From: KD5SFA
Topic: 7122 Message: 7185

Seems to me the impedance range for the audio input
(mic) was about 500 Ohms to 50k Ohms. So anything
in that range should work...some better than others. You
may have to try several to get the best audio. I know on my
former 520s the mics that gave the best audio were about
600 Ohms. They work just as well on my 830s and my 700sp.

Heck even an old Radioshack replacement CB mic works well
and has gotten good audio reports although not as good as the Astatic.

73,
Jon
KD5SFA

-----Original Message-----
>From: Ellen R <ellenjoanne2003@...>
>Sent: Apr 3, 2006 11:29 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Desk Mics
>
>Ummm, if you don't mind a hand mic, try Ken's Electronics. He sells
>high impedance mics (both hand, and I think desk) for the Kenwood
>hybrids. Here's the URL for his mic webpage:
>
>http://www.kenselectronics.com/lists/mics.htm#Amateur
>
>Remember, nominal impedance for the TS-520s (and 820S) is 50k ohms.
>
>Ellen - AF9J
>
>--- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt" <hrhoule@...>
>wrote:
>>
>> Can someone tell me where to buy a desk mic (even a hand held mic)
>that I can purchase
>> for my TS-520. Thanks....Ron KB2SQY
>>
>
>
>
>
>
>
>
>Yahoo! Groups Links
>

>
>
>
>
>

7186. Help!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 15:28:35 UTC
From: Ellen R
Topic: 7186 Message: 7186

My recently acquired TS-820 is giving me problems. From the get-go, I could get drive out of the 12BY7A, but have had problems with the finals. Up until last night, I could at least set biase/plate idle current on the 6146Bs, but could not get plate current (much less dip it on tune-up), or RF output. That all changed last night, when I put in a new set of tubes. I bought them on Saturday, from AES in Milwaukee (I only live 10-12 miles from the place), hoping that maybe the problem, was just a burned out set of finals, only to find out when I opened the boxes last night, that they're Chinese 6146Bs. Of course we all know how nasty those can be. Ugh!

Figuring nothing ventured, nothing gained, I installed these "tubes" (and I use that word loosely to describe them). Well they flashed over, and blew. But, in the process they caused even more problems. Whereas before I could at least get, and/or set plate idle current before, I can't even do that. My idle current is ZERO. Even (what I assume is) plate high voltage is zero. This is true, even with the Phillips tubes that came with the rig. It looks like I have some troubleshooting ahead of me. A friend of mine who lives several hundred miles away from me, and used to be an RF tech. (before worsening eyesight [coused by glaucoma] forced her to quit doing that type of work), suggested a good starting point, would be to check pin voltages on the finals. The problem is, that I don't have a service manual, so I don't know what these voltages are supposed to be. Would anybody know? Also, what are the group's suggestions as to how I should troubleshoot/attack my problems? Any information would be appreciated.

73 & thanks
Ellen - AF9J

7187. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 15:56:24 UTC
From: Ellen R
Topic: 7183 Message: 7187

Ummmm, actually I did not post about desk mics. But I did reply to
the query for a desk mic, stating that there was a place that has a
supply of hand mics (and possibly desk mics) for Kenwood hybrids,
that will match their high impedance of 50,000 ohms. If you don't
decently match impedance, not only will you have low audio input, but
you audio usually sounds lousy (as in pretty tinny).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>
> I saw Ellens posting about Desk Mics and for those of you new to
the
> Hybrids and buy a MC-50 without the Manual... be aware that this is
> a dual impedance mic and its not at all obvious how to change from
> High to Low Z. At least when I got mine, it was a mystery without
> the manual.
>
> The MC-50 has a barrel with red and black dots and depending on how
> you attach one of the cords its going to have a different impedance.
>
> Low Z is 600 Ohms for Moden rigs
> High Z is 50,000 Ohms for Kenwood Hybrids.
>
> The 520 and 820 want the High Z
> The manual for the 830 says it will work with both - but I use Hi Z
> on all of my Hybrids
>
> If you dont have a MC-50 Manual - take it from here.
> http://frrl.dyndns.org/frrlnetannex/ClassicRadios_Manuals/
>
> Take it, I am not promising to maintain this site.
>
> ke9zm
>

7188. Re: Help!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 17:58:25 UTC
From: Ravenswood
Topic: 7186 Message: 7188

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> ...The problem is, that I don't have a service
> manual, so I don't know what these voltages are supposed to be.
> Would anybody know?

I have posted the service manual for the TS-820(S). Methinks the (S)
indicates 820 OR 820S. It was at RUBE and mods.dk. I found a free
and easy file hosting site, so I posted it there. Let me know if
anyone can't get to it and I'll try something else.

Kenwood TS-820(S) Service Manual PDF
http://www.savefile.com/files3.php?fid=7280451

(Click the orange download button or 'download file now' at the bottom
of the page.)

73, Frank K2NCC

7189. Re: [TS-520_820_530_830] Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 19:58:49 UTC
From: Ronald Houle
Topic: 7122 Message: 7189

Thanks, looks like I will find something at Ken¹s
Electronics.....73...ron

On 4/3/06 11:29 PM, "Ellen R" <ellenjoanne2003@sbcglobal.net> wrote:

> Ummm, if you don't mind a hand mic, try Ken's Electronics. He sells
> high impedance mics (both hand, and I think desk) for the Kenwood
> hybrids. Here's the URL for his mic webpage:
>
> http://www.kenselectronics.com/lists/mics.htm#Amateur
>
> Remember, nominal impedance for the TS-520s (and 820S) is 50k ohms.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt" <hrhoule@...>
> wrote:
>> >
>> > Can someone tell me where to buy a desk mic (even a hand held mic)
> that I can purchase
>> > for my TS-520. Thanks....Ron KB2SQY
>> >
>
>
>
>
>
>
>
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7190. Disk Space is just FULL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-04 21:28:04 UTC
From: Daniel
Topic: 7190 Message: 7190

To the moderator

I woul upload a file (Manaul MC-50) but the disk space is just full. Can you manage that??

Daniel, HB9DDS

7191. Re: Help!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 02:21:18 UTC
From: Ellen R
Topic: 7186 Message: 7191

Thanks again Frank,

I found what I thought was a source for a service manual, during a break at work, but it was in a goofy zip format (I had to download a german freeware program to unzip it), and for some reason it had multiple parts to the manual. I only got the first (of supposedly 8 parts) to unzip. All of the other parts seemed to be corrupted files. Here is the URL I used:

http://www.eserviceinfo.com/downloadsm/6808/kenwood_TS-820S.html

I bought my TS-820 (non-gigital display version) from Associated Radio. It was suppesed to be in working order. Considering how much of a hassle it will be to send a 40lb. radio back to them, I would just as soon try to get it going myself.

Thanks again & 73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
> >
> > ...The problem is, that I don't have a service
> > manual, so I don't know what these voltages are supposed to be.
> > Would anybody know?
>
> I have posted the service manual for the TS-820(S). Methinks the (S) indicates 820 OR 820S. It was at RUBE and mods.dk. I found a free and easy file hosting site, so I posted it there. Let me know if anyone can't get to it and I'll try something else.
>
> Kenwood TS-820(S) Service Manual PDF
> http://www.savefile.com/files3.php?fid=7280451
>
> (Click the orange download button or 'download file now' at the bottom
> of the page.)
>
> 73, Frank K2NCC
>

7193. Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 02:26:01 UTC
From: Ellen R
Topic: 7122 Message: 7193

No problem Ron,

I'm waiting for one I ordered for my TS-820. Another ham in the SKCC group (a CW Club believe it or not), told me about Ken's because that's where he got the mic for his TS-520S.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Ronald Houle <hrhoule@...> wrote:
>
> Thanks, looks like I will find something at Ken¹s
> Electronics...........73...ron
>
>
> On 4/3/06 11:29 PM, "Ellen R" <ellenjoanne2003@...> wrote:
>
> > Ummm, if you don't mind a hand mic, try Ken's Electronics. He sells
> > high impedance mics (both hand, and I think desk) for the Kenwood
> > hybrids. Here's the URL for his mic webpage:
> >
> > http://www.kenselectronics.com/lists/mics.htm#Amateur
> >
> > Remember, nominal impedance for the TS-520s (and 820S) is 50k ohms.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt" <hrhoule@>
> > wrote:
> >> >
> >> > Can someone tell me where to buy a desk mic (even a hand held mic)
> > that I can purchase
> >> > for my TS-520. Thanks....Ron KB2SQY
> >> >
> >
> >
> >
> >
> >
> >
> >
> >

> >
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > * TS-520_820_530_830-unsubscribe@yahoogroups.com
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
> > *
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service
> > <http://docs.yahoo.com/info/terms/> .
> >
> >
> >
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

7194. Re: [TS-520_820_530_830] Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 03:21:54 UTC
From: Brent W. Baum
Topic: 7105 Message: 7194

I encased my antenna wire in some old pieces of garden hose where it came in contact with the trees. Problem solved.

Brent, K7MEI

Brent W. Baum
Assistant Director - PWI

Career Services & Student Employment
Utah Valley State College
800 West University Parkway
Orem, UT 84058-5999
(801) 863-8711
(801) 863-8051 fax
baumbr@...
>>> evokefrank@... 04/02/06 9:41 PM >>>
--- In TS-520_820_530_830@yahoogroups.com, "Brent W. Baum"
<baumbr@...> wrote:
> Is it raining and is your fence wet? I had a wire antenna up in some
cotton wood trees in New Mexico (very dry climate) when it got damp
outside my SWR went wild. Try better insulation between the wire and
the fence, see if that helps.

Yup, just became aware of the wet fence issue today! Your feedback
doubles that. I was told to get some wire standoffs, but I can't seem
to find what I need. If anyone has a link, plz post it.

Thanks Brent!

73 Frank, K2NCC

Yahoo! Groups Links

7195. My TS-520SE alignment experience. :)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 04:34:29 UTC
From: dslund817
Topic: 7195 Message: 7195

Well - I took the plunge this evening and aligned my radio - at least I think I did. :)

Ended up having some issues. First thing I discovered two cracked slugs the 160M mix and ant slugs. My guess is that since these are the first two slugs in the procedure - the last guy used the wrong tool. ?? Anyways - doesn't seem to be any good way to turn a broken slug so I left them the way that they were and went on with the procedure. Had to read the instructions several times to figure the stuff out, but things seems to peak where they should. In the mixer section everything peaked just a little bit better.

The frequency dial is off a little bit and the instructions said to adjust TC1 in the vfo section - can't find that - so I guessed - the hole in the top of the vfo case? Well that adjustment would adjust the frequency - but not far enough to get the dial calibrated. ??

The other thing that I could not locate was the noise blanker board.

Have no 50db signal source for adjusting the S-Meter - so guess again - tuned up on the calibrator and set the meter to about +20 on the meter - now the meter moves - is there another way to set it right?

Overall I think it went well since at least the drive setting is the peak ALC and peak receiver so I can now use 20 meters.

Any idea where to get replacement coil slugs to replace the broken ones or does it really matter if they are broken - I don't use 160M anyways.

I learned a lot from doing this and I think I managed to not destroy the radio. :)

David
KB5DRJ

7196. Re: [TS-520_820_530_830] My TS-520SE alignment experience. :)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 04:48:29 UTC
From: agoodridge
Topic: 7195 Message: 7196

G'day david

I just had a similar experience here in Sydney with an old TS520, the ferrite tuning "slugs" are fairly hard to get as far as I know.

I ended up using some slugs out of an old colour Television Tuning board, and yes they worked and yes, even the thread was the same.

The Television was a sony, about a 1980 vintage,

have a look at an old TV, you may be suprised!

Hope this helps!

Anthony
VK2
---- dslund817 <kb5drj@...> wrote:

7197. Re: [TS-520_820_530_830] Help!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 09:51:27 UTC
From: Walt Breining
Topic: 7186 Message: 7197

Ellen:

TS-820
Go to page 32 of your operating manual. On the final board find R-2 and R-3. These are 10 ohm at 1 watt. Replace them with 10 ohm 1 watt resistors. Do not use larger wattage resistors as they double as a meter shunt and a fuse.

On the same board replace R-5 and R-6. These are 100 ohm 1/2 watt resistors. This should resolve the problems caused by the flash over. Do not reinstall the new tubes.

The following is worth checking and may help resolve some of your power issues.

You will next need to locate a board labeled HV unit. This is a small board on the bottom of the rig near the rectifier board. It is not pictured in your owners manual but is shown in the main schematic on Page 43.

Locate R-5 and R-6 on this board . There are 5.6K at 1/2 watt. Replace them. Find R-7. It is a 12K 1/2 watt resistor. Replace it.

If R-7 has been replaced with a resistor of a different value or jumpered with another resistor or wire, remove these modifications and restore it to the original value of 12K 1/2 watt.

Most of these parts can be located at Radio Shack in the drawers in the back or at Fry's electronics. They also should be available at other parts suppliers as they are common parts. The 12 K resistor may be more difficult to find. If you have a good ohm meter, you can measure it and reinstall it if it looks and measures good. The other resistors can be checked and reused but in view of their age, I would recommend replacement. To measure them you will have to unsolder at least one end from the board.

After doing this, be sure that you SG switch is on and that the Carrier control is fully up. Let us know how it does and what the power is. Power should be measured into a dummy load or a antenna with a very good SWR on every frequency that you measure the power.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 04, 2006 10:28 AM
Subject: [TS-520_820_530_830] Help!

> My recently acquired TS-820 is giving me problems. From the get-go,
> I could get drive out of the 12BY7A, but have had problems with the

> finals. Up until last night, I could at least set biase/plate idle
> current on the 6146Bs, but could not get plate current (much less dip
> it on tune-up), or RF output. That all changed last night, when I
> put in a new set of tubes. I bought them on Saturday, from AES in
> Milwaukee (I only live 10-12 miles from the place), hoping that maybe
> the problem, was just a burned out set of finals, only to find out
> when I opened the boxes last night, that they're Chinese 6146Bs. Of
> course we all know how nasty those can be. Ugh!
>
> Figuring nothing ventured, nothing gained, I installed these "tubes"
> (and I use that word loosely to describe them). Well they flashed
> over, and blew. But, in the process they caused even more problems.
> Whereas before I could at least get, and/or set plate idle current
> before, I can't even do that. My idle current is ZERO. Even (what I
> assume is) plate high voltage is zero. This is true, even with the
> Phillips tubes that came with the rig. It looks like I have some
> troubleshooting ahead of me. A friend of mine who lives several
> hundred miles away from me, and used to be an RF tech. (before
> worsening eyesight [coused by glaucoma] forced her to quit doing that
> type of work), suggested a good starting point, would be to check pin
> voltages on the finals. The problem is, that I don't have a service
> manual, so I don't know what these voltages are supposed to be.
> Would anybody know? Also, what are the group's suggestions as to how
> I should troubleshoot/attack my problems? Any information would be
> appreciated.
>
> 73 & thanks
> Ellen - AF9J
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7198. Re: [TS-520_820_530_830] Disk Space is just FULL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 11:32:22 UTC
From: Walt Breining
Topic: 7190 Message: 7198

We have a sister Yahoo group site called KenwoodMics.

The MC-50 manual is posted there.

I would suggest that everybody on this group also sign up for the
KenwoodMics
group.
It is a very low traffic group.
If you are worried about too much e-mail, click on the "no email"
preference when joining. You will not receive the posts automatically but
will have access to the group when you wish.
Of course, you are invited to receive the e-mails if you wish.

This site has information about the MC-50, the production error that causes
MC-60s to have so many problems, and information about D-104s among other
helpful information. Check the files section.

KenwoodMics http://groups.yahoo.com/group/KenwoodMics/

Vy 73, Walt N9WB

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 04, 2006 4:28 PM
Subject: [TS-520_820_530_830] Disk Space is just FULL

> To the moderator
>
> I would upload a file (Manual MC-50) but the disk space is just full. Can
you manage that??
>
> Daniel, HB9DDS
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

>

7199. Re: Help!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 12:10:35 UTC
From: Ellen R
Topic: 7186 Message: 7199

That is so cool!! Thanks a lot Walt! This info (along with the service manual) will save me a ton of time in getting my rig going again! :) I'll keep everybody informed about how things go.

73 & many thanks!
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Ellen:
>
> TS-820
> Go to page 32 of your operating manual. On the final board find R-2 and R-3.
> These are 10 ohm at 1 watt. Replace them with 10 ohm 1 watt resistors. Do
> not use larger wattage resistors as they double as a meter shunt and a fuse.
>
> On the same board replace R-5 and R-6. These are 100 ohm 1/2 watt resistors.
> This should resolve the problems caused by the flash over. Do not reinstall
> the new tubes.
>
> The following is worth checking and may help resolve some of your power
> issues.
>
> You will next need to locate a board labeled HV unit. This is a small board
> on the bottom of the rig near the rectifier board. It is not pictured in
> your owners manual but is shown in the main schematic on Page 43.
>
> Locate R-5 and R-6 on this board . There are 5.6K at 1/2 watt. Replace them.
> Find R-7. It is a 12K 1/2 watt resistor. Replace it.
>
> If R-7 has been replaced with a resistor of a different value or jumpered
> with another resistor or wire, remove these modifications and restore it to
> the original value of 12K 1/2 watt.

>
> Most of these parts can be located at Radio Shack in the drawers in
the back
> or at Fry's electronics. They also should be available at other
parts
> suppliers as they are common parts. The 12 K resistor may be more
difficult
> to find. If you have a good ohm meter, you can measure it and
reinstall it
> if it looks and measures good. The other resistors can be checked
and
> reused but in view of their age, I would recommend replacement. To
measure
> them you will have to unsolder at least one end from the board.
>
> After doing this, be sure that you SG switch is on and that the
Carrier
> control is fully up. Let us know how it does and what the power is.
Power
> should be measured into a dummy load or a antenna with a very good
SWR on
> every frequency that you measure the power.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: "Ellen R" <ellenjoanne2003@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, April 04, 2006 10:28 AM
> Subject: [TS-520_820_530_830] Help!
>
>
> > My recently acquired TS-820 is giving me problems. From the get-
go,
> > I could get drive out of the 12BY7A, but have had problems with
the
> > finals. Up until last night, I could at least set biase/plate idle
> > current on the 6146Bs, but could not get plate current (much less
dip
> > it on tune-up), or RF output. That all changed last night, when I
> > put in a new set of tubes. I bought them on Saturday, from AES in
> > Milwaukee (I only live 10-12 miles from the place), hoping that
maybe
> > the problem, was just a burned out set of finals, only to find out
> > when I opened the boxes last night, that they're Chinese 6146Bs.
Of
> > course we all know how nasty those can be. Ugh!
> >

> > Figuring nothing ventured, nothing gained, I installed
these "tubes"
> > (and I use that word loosely to describe them). Well they flashed
> > over, and blew. But, in the process they caused even more
problems.
> > Whereas before I could at least get, and/or set plate idle current
> > before, I can't even do that. My idle current is ZERO. Even
(what I
> > assume is) plate high voltage is zero. This is true, even with
the
> > Phillips tubes that came with the rig. It looks like I have some
> > troubleshooting ahead of me. A friend of mine who lives several
> > hundred miles away from me, and used to be an RF tech. (before
> > worsening eyesight [coused by glaucoma] forced her to quit doing
that
> > type of work), suggested a good starting point, would be to check
pin
> > voltages on the finals. The problem is, that I don't have a
service
> > manual, so I don't know what these voltages are supposed to be.
> > Would anybody know? Also, what are the group's suggestions as to
how
> > I should troubleshoot/attack my problems? Any information would
be
> > appreciated.
> >
> > 73 & thanks
> > Ellen - AF9J
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

7200. TS830S-main rig fuse blew

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 17:06:04 UTC
From: stevehurstg8lik2003
Topic: 7200 Message: 7200

Another rig from eBay which arrived today in very good condition and apparently all OK at first. After tune up and 20 seconds into calling CQ on 20 metres the rig went dead and the 4A rear fuse blew with a bit of a smell of overheating. Checked the internals including the final board especially the cathode resistors (the schematic shows these as being 20 ohms rather than 10 ohms in earlier rigs) and nothing untoward seen.If these had been stressed they did not show it and I had no spares anyway to replace them with.
Fitted a new pair of GE6146B as this being a prime cause for concern after reading you guys most helpful articles,and touch wood all seems OK for the moment though time will tell. The finals removed were the Japanese ones that had been in since day 1 so I guess the shipping finished them off though they measure OK cold with a multimeter.
Best regards to all, Steve G8LIK

7201. For Sale: TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 17:14:26 UTC
From: Tony Parker
Topic: 7201 Message: 7201

I have a tired old TS-820S that needs a good home.
Due to family and career I have not been active for
the past 20+ years. I would like to
offer this radio to someone that appreciates the
TS-820S before it goes
to that great garage sale in the sky, eBay.

Contact me off list for details.

Tony
ke6g

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7202. Re: [TS-520_820_530_830] For Sale: TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 19:58:31 UTC
From: Bill Scurlock
Topic: 7201 Message: 7202

Tony, send me your email so we can talk. Thanks.

73, Bill, K5GCW
k5gcw@...

----- Original Message -----
From: Tony Parker
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, April 05, 2006 12:14 PM
Subject: [TS-520_820_530_830] For Sale: TS-820S

I have a tired old TS-820S that needs a good home.
Due to family and career I have not been active for
the past 20+ years. I would like to
offer this radio to someone that appreciates the
TS-820S before it goes
to that great garage sale in the sky, eBay.

Contact me off list for details.

Tony
ke6g

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7203. Re: [TS-520_820_530_830] TS830S-main rig fuse blew

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 21:54:38 UTC
From: pmertens
Topic: 7200 Message: 7203

Did you properly tune your rig before transmitting ?
This fuse blow happens also if you have a high swr !

Patrick - ON4NY

Le Wed, 05 Apr 2006 19:06:04 +0200, stevehurstg8lik2003
<stevehurstg8lik2003@...> a ?crit:

> Another rig from eBay which arrived today in very good condition and
> apparently all OK at first. After tune up and 20 seconds into calling
> CQ on 20 metres the rig went dead and the 4A rear fuse blew with a bit
> of a smell of overheating. Checked the internals including the final
> board especially the cathode resistors (the schematic shows these as
> being 20 ohms rather than 10 ohms in earlier rigs) and nothing
> untoward seen.If these had been stressed they did not show it and I
> had no spares anyway to replace them with.
> Fitted a new pair of GE6146B as this being a prime cause for concern
> after reading you guys most helpful articles,and touch wood all seems
> OK for the moment though time will tell. The finals removed were the
> Japanese ones that had been in since day 1 so I guess the shipping
> finished them off though they measure OK cold with a multimeter.
> Best regards to all, Steve G8LIK
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

--

_____
Patrick MERTENS
Licenci? en Sciences - Master in Sciences
T?l.: 010 65 76 86 - pmertens@...

7204. Re: [TS-520_820_530_830] For Sale: TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-05 23:19:13 UTC
From: Ronald Houle
Topic: 7201 Message: 7204

How much are you asking and what is included with the radio. Ron KB2SQY

On 4/5/06 12:14 PM, "Tony Parker" <ke6g@...> wrote:

> I have a tired old TS-820S that needs a good home.
> Due to family and career I have not been active for
> the past 20+ years. I would like to
> offer this radio to someone that appreciates the
> TS-820S before it goes
> to that great garage sale in the sky, eBay.
>
> Contact me off list for details.
>
> Tony
> ke6g
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> SPONSORED LINKS
>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=
> Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby and
> craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Cr
> aft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *

> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7205. TS-520 for Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 00:24:37 UTC
From: Ronald Real
Topic: 7205 Message: 7205

Hello all! I have too many radios, never thouhgt I would say that. I have added a TS850 to my operating desk, and the TS-520 needs to go. I hate to sell it, but if it sets in a box in the garage for a long time between uses, well you know. I have the DG-5, TS-520 speaker. I have pix if anyone is interested. The only thing I am unsure of is the 10 meter band. It works fine on the 28 to 28.5 section, but the top two 10 meter sections displays the 3.75 mhz freq, like the crystals are n ot working. I will look at it, and see if it's a easy fix. I have the operating manual, and the service manual.

Ron Real
WD5CIG

7206. Re: My TS-520SE alignment experience. :)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 01:45:33 UTC
From: wohtex
Topic: 7195 Message: 7206

I also need to do this to my TS-520, where did you get the alignment
tool from? The ones I got from Radio Shack don't seem to fit the slugs.

thanks
Bill, N5CCQ

7207. Attn: Graham M5AAV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 02:30:50 UTC
From: Bruce Wright
Topic: 7207 Message: 7207

Graham...

I've tried to send the information you requested with reference to the 6146
but I get a failed delivery notice for the e-mail address you
furnished...Please check it as to accuracy and let me know.

Thanks (and thanks to the group for the time/space/energy/indulgence).

Bruce
WC5CW

7208. Re: TS830S-main rig fuse blew

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 09:18:59 UTC
From: stevehurstg8lik2003
Topic: 7200 Message: 7208

Hi Patrick, yes it was not operator error for sure (I had a TS530SP since 1984 so know the ropes on tuneup). I think if you send any rig even well packed in its original box by 'parcelforce' aka the British Post Office mailing service for heavy/bulky items its going to have some shakes along the way and those original Japanese finals dating back to the early 80s with fragile filaments/grids after lots of use are at risk. Anyway no more problems since fitting the new GE6146B but still crossing fingers.

73's Steve

7209. Re: TS830S-main rig fuse blew

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 09:19:02 UTC
From: stevehurstg8lik2003
Topic: 7200 Message: 7209

Hi Patrick, yes it was not operator error for sure (I had a TS530SP since 1984 so know the ropes on tuneup). I think if you send any rig even well packed in its original box by 'parcelforce' aka the British Post Office mailing service for heavy/bulky items its going to have some shakes along the way and those original Japanese finals dating back to the early 80s with fragile filaments/grids after lots of use are at risk. Anyway no more problems since fitting the new GE6146B but still crossing fingers.

73's Steve

7210. Re: TS830S-main rig fuse blew

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 09:19:38 UTC
From: stevehurstg8lik2003
Topic: 7200 Message: 7210

Hi Patrick, yes it was not operator error for sure (I had a TS530SP since 1984 so know the ropes on tuneup). I think if you send any rig even well packed in its original box by 'parcelforce' aka the British Post Office mailing service for heavy/bulky items its going to have some shakes along the way and those original Japanese finals dating back to the early 80s with fragile filaments/grids after lots of use are at risk. Anyway no more problems since fitting the new GE6146B but still crossing fingers.

73's Steve

7211. Re: [TS-520_820_530_830] Re: My TS-520SE alignment experience. :)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-06 14:05:23 UTC
From: David S Lund
Topic: 7195 Message: 7211

It is the size just below the big one itaht comes with the radio shack kit. I'm not sure where I got mine - I got a set back in high school for work on TVs. You might check here:

http://www.minute-man.com/acatalog/TV_and_Radio_Alignment_Tools.html

The have a big variety of sizes.

On Apr 5, 2006, at 8:45 PM, wohtex wrote:

> I also need to do this to my TS-520, where did you get the alignment
> tool from? The ones I got from Radio Shack don't seem to fit the
> slugs.
>
> thanks
> Bill, N5CCQ
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7212. Re: My TS-520SE alignment experience. :)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-07 17:34:04 UTC
From: wohtex
Topic: 7195 Message: 7212

Thanks David I'll check them again, maybe mines missing and will have to get another set.
73
Bill N5CCQ

7213. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-07 19:58:32 UTC
From: vk2icj
Topic: 7183 Message: 7213

Is there any other problems from having this switch in the wrong position or using a mic with the wrong impedence? Is there any possibility of damage to your rig or mic?

Tnx

Chris VK2ICJ

If you don't
> decently match impedance, not only will you have low audio input, but
> you audio usually sounds lousy (as in pretty tinny).
>
> 73,
> Ellen - AF9J
>

7214. Re: [TS-520_820_530_830] Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-07 20:13:02 UTC
From: Pierre Wells
Topic: 7183 Message: 7214

No problem.......no permanent dammage caused.
Peter VE2FAR

--- vk2icj <vk2icj@...> wrote:

> Is there any other problems from having this switch
> in the wrong position or using a mic
> with the wrong impedence? Is there any possibility
> of damage to your rig or mic?
>
> Tnx
>
> Chris VK2ICJ
>
>
>
>
>
> If you don't
> > decently match impedance, not only will you have
> low audio input, but
> > you audio usually sounds lousy (as in pretty
> tinny).
> >
> > 73,
> > Ellen - AF9J
> >
>
>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7215. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-08 00:43:42 UTC
From: ke9zm
Topic: 7183 Message: 7215

I bought my MC-50 and did not have the manual. I hooked it up to my hyrids and it just didn't work. I thought it was broken but I knew it was dual Z and Kenwood needed high Z. HB9DDS, Daniel was nice enough to send me the manual. It is NOT at all obvious, without the manual, how to change the Z. After reading the manual, I changed the Z and all is well.

I'm no electroics guy, but from HS and college electronic I remember that the max power transfer happens when impedences match between 2 circuits.

From the Kenwood TS-520 manual "The microphone input is designed for high impedance (50K ohms) microphones only."

So, if you have 50K then use it. Low Z mics may work but the max power transfer from the Mic to the radio will be diminished. I have a 830 and that supposedly works 600-50K. I use 50K

The MC-50 works great with the Kenwoods and delivers far more power than is needed to peak the ALC on transmit with only moderate Mic gain and compressor off. My experience.

Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, Pierre Wells <lool5552002@...> wrote:
>
> No problem.......no permanent dammage caused.
> Peter VE2FAR
>
> --- vk2icj <vk2icj@...> wrote:
>
> > Is there any other problems from having this switch
> > in the wrong position or using a mic
> > with the wrong impedence? Is there any possibility
> > of damage to your rig or mic?
> >
> > Tnx
> >
> > Chris VK2ICJ
> >
> >
> >
> >
> >
> > If you don't

> > > decently match impedance, not only will you have
> > low audio input, but
> > > you audio usually sounds lousy (as in pretty
> > tinny).
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> >
> >
> >
> >
> >
> >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7216. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-08 00:46:37 UTC
From: Ellen R
Topic: 7183 Message: 7216

Hi Chris,

Unless you really have an extreme case of audio distortion (distortion is always hard on components - take this from a metal head guitarist, who has played distorted guitar in rock bands) from having to crank the mic gain to the max , and then shout into the mic to get enough modulation (a pretty rare set of conditions), it really shouldn't hurt the rig. It just gives you two negatives you have to deal with:

1. Low audio drive to the mic amplifier (and hence low modulation).
2. Lousy sounding audio (it's usually pretty thin sounding).

Ellen - AF9J

P.S. - my mic from Ken's Electronics arrived today. I'm still kind of burned out from having a cold or flu for the past week. I'll try to work on the TS-820 tonight, but I can tell I'm starting to fade. I have a feeling, I'm going to have another marathon sleep session tonight. Well, suuper is ready.

--- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@...> wrote:
>
> Is there any other problems from having this switch in the wrong position or using a mic
> with the wrong impedence? Is there any possibility of damage to your rig or mic?
>
> Tnx
>
> Chris VK2ICJ
>
>
>
>
>
>
> If you don't
> > decently match impedance, not only will you have low audio input, but
> > you audio usually sounds lousy (as in pretty tinny).
> >
> > 73,
> > Ellen - AF9J
> >
>

7217. Re: oscilliscope use with rigs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-08 08:53:57 UTC
From: Ravenswood
Topic: 7178 Message: 7217

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
<evokefrank@...> wrote:
> I have an oscilliscope (20mhz analog w/function gen) that's sitting
> around doing nothing. Can I get some pretty pictures if I attach it
> to the TS-520 or something? Any ideas?
>

I found something of an answer to this question on my own, but in case
anyone else was interested:

http://www.icycolors.com/nu9n/scope_your_audio.html

Looks like one needs a rf demodulator and rf sampler.

Any other ideas?

7218. TS520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-09 01:03:01 UTC
From: The Bandit
Topic: 7218 Message: 7218

Looking for someone that owns a TS-520s in the S. Fla area. I have a DG-5 that I just had fixed that still isn't working. I need to determine if there is a TS-520s problem or a DG-5 problem. If you have one in the area, please let me know!!!!

Thanks!!!!

Love cheap thrills? Enjoy PC-to-Phone calls to 30+ countries for just 2¢/min with Yahoo! Messenger with Voice.

[Non-text portions of this message have been removed]

7219. My TS-820 is fixed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-09 06:16:35 UTC
From: Ellen R
Topic: 7219 Message: 7219

Hi Everybody,

I finished working on my TS-820 a couple of hours ago, and it's working again. I'd like to thank everybody, who offered me help with obtaining a service manual for the radio (I used it to double check the areas I was working in). I would especially like to thank Walt, N9WB for his suggestions to check certain key resistors on the finals, and high voltage boards. That did the trick.

In a nutshell - R2 & R3 - were within spec on the finals board, but as long as I had them off the board, I replaced them anyway with newer ones (besides, the ones I bought were better - they were metal film resistors, instead of carbon comps). R5 on the finals board was also OK, but R6 was out of tolerance (it was 115 ohms, and was supposed to be no more than 105 ohms). I replaced not only R6, but R5 (since I had a new one on hand).

On the high voltage board, R5 & R6 (both 5.6K ohm), and R7 (12K ohm) were shot. Two of them (R5 & R7) actually fell apart as I was desoldering them from the board. Of course all 3 of these resistors were replaced.

I buttoned up the rig, powered it up, and tested it. I was able to set bias/plate idle current. I was also able to tune the finals (I had plate current, and was also able to dip it), and had RF output. I can't wait to try it out. I also received the mic I ordered for it, in the mail on Friday. Once again, thanks people.

73,
Ellen - AF9J

7220. Re: [TS-520_820_530_830] My TS-820 is fixed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-09 08:20:52 UTC
From: Dave and Loraine
Topic: 7219 Message: 7220

Well done Ellen!

7221. Re: My TS-820 is fixed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-09 16:44:01 UTC
From: Ellen R
Topic: 7219 Message: 7221

Thanks. :)

Next on the agenda is to add the WARC Bands to it (many thanks to Frank, K2NCC for providing access to the WARC Mods article). I'm not sure if I'll add 30m (my Small Wonder Labs DSW-II I'm waiting for is going to be for 30m, and my IC-703 plus is going to be my 30m digital radio). But, I wouldn't mind 17 & 12m.

I haven't done much 17, but what little I've done, I've liked. I've also heard a lot of good things about this band. The last time I really did much 12m, was in college (when I cut the jumper on the club's TS-830S to enable operation on this band). I enjoyed operating on it then (had some really enjoyable ragchews, eventhough I'm more of a contester than a ragchewer), and I'd like to get on it again, because it is such an overlooked, and underused band. The thing that's nice about the WARC bands, is that they seem to be a bit friendlier operatorwise, and operatingwise than the traditional HF bands.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine" <dave.crooks@...> wrote:
>
> Well done Ellen!
>

7222. TS-830 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-09 17:02:34 UTC
From: w3iz
Topic: 7222 Message: 7222

If anyone is interested I have a TS-830 for sale with the following accessories.
VFO-230
SP-230
AT-230
SM-220 scope (no pan)
MC-50 mic
Spare set of 6146 finals

All in excellent condition.
If interested please contact me off the reflector at w3iz@...

73,
Norm, W3IZ

7223. Re: [TS-520_820_530_830] TS-830 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-09 18:09:48 UTC
From: Art
Topic: 7222 Message: 7223

Hi Norm, Wonder if you will sell individual items or just all as a package. I would like to know the price and also explain the condition a little more in depth.

73
Art
WB4MNK

w3iz wrote:
> If anyone is interested I have a TS-830 for sale with the following
> accessories.
> VFO-230
> SP-230
> AT-230
> SM-220 scope (no pan)
> MC-50 mic
> Spare set of 6146 finals
>
> All in excellent condition.
> If interested please contact me off the reflector at w3iz@...
>
>
> 73,
> Norm, W3IZ
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
>

7224. TS-520 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-10 18:13:06 UTC
From: wa2hlv
Topic: 7224 Message: 7224

My TS-520 will not load up on 40 or 80 meters. It loads up well on 10, 15, and 20 meters.It indicates gr1d tune current but it will not load up on bands indicated. Plate current can not be dipped. If any one has experienced a similiar problem plase advice. Mike-WA2HLV

7225. Re: [TS-520_820_530_830] TS-520 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-10 18:30:10 UTC
From: joe sloss
Topic: 7224 Message: 7225

Mike: Have you tried to load it into a 50 ohm dummy load?

Joe k7mks
----- Original Message -----
From: "wa2hlv" <wa2hlv@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 10, 2006 11:13 AM
Subject: [TS-520_820_530_830] TS-520 Problem

> My TS-520 will not load up on 40 or 80 meters. It loads up well on 10,
> 15, and 20 meters.It indicates gr1d tune current but it will not load
> up on bands indicated. Plate current can not be dipped. If any one has
> experienced a similiar problem plase advice. Mike-WA2HLV
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7226. Re: [TS-520_820_530_830] TS-520 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-10 20:44:53 UTC
From: miguel quijano
Topic: 7224 Message: 7226

Yes, Test was performed using a 100 Watt. dry dummy load. Thanks

wa2hlv <wa2hlv@...> wrote: My TS-520 will not load up on 40 or 80 meters. It loads up well on 10,
15, and 20 meters.It indicates gr1d tune current but it will not load
up on bands indicated. Plate current can not be dipped. If any one has
experienced a similiar problem plase advice. Mike-WA2HLV

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

7227. TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-11 21:54:34 UTC
From: budgiebob2005
Topic: 7227 Message: 7227

I am restoring this transeiver and would like help on the following To confirm i have fitted new 6146 and replaced the cathode /screen and screen divider resistors for tune position. All now ok 100watt out . However the Tuneposition is not working correctly . following instructions the IA is set at 60ma on ssb but when returning to tune thereis virtualy zero current . consequently i am unable to DIP on this safe setting .the screen voltage is halved on tune as measured.Consequently i tuned on max power quickly!

ALC Following the instruction manual on tune the drive does not peak the ALC reading Nb I am able by readjustment off bias pot to have reading on tune but on returning to ssb stannding current is 150ma. all voltoges appear ok

The Notch knob control is seized it will not move is this a dual pot?

The display is now working on all bands after clearing a bad pin/skt on pcb . But one segment is out on all figures so 0 looks 9 any thoughts on this one Views and ideas Please BOB G8ACQ

7228. Re: [TS-520_820_530_830] TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 07:17:15 UTC
From: Richard Harris
Topic: 7227 Message: 7228

Bob,

I have a couple of 530s, which as I am sure you know is the slightly down market version of the 830, so I will assume that much of what applies to the 530 also applies to the 830.

The screen grid voltage is reduced in the TUNE position the standing anode current is zero, or very close to zero. On the 530, in TUNE, I can drive the plate current up to about 100mA. With an anode voltage of, say 850V, this gives a dissipation of 85W. The plate dissipation for the 6146B in ICAS operation is 35W, so assuming that the power is shared equally, the dissipation is just a bit above the rating of the tubes, so it is a fairly safe way of tuning up. If you have a problem dipping, then you could switch the meter to the RF voltage position and peak that. My (uncalibrated) AT-230 ATU shows about 12W maximum output in the TUNE position.

When tuning up, I select TUNE and peak the ALC reading using the DRIVE control. I then peak the output whilst looking at the meter on the AT-230 and then adjust the ATU for zero reflected power. I then switch to CW and quickly peak the output of the 530 - I find the 530 PI-output settings are not quite the optimum if set in the TUNE position. I do not monitor the plate current at any time.

I can understand the attractions of modern transceivers with auto-ATUs! Less fun though......

The display is multiplexed and if you have one segment out on all digits then this may well be a counter/driver fault although it could still be a display fault. Do you have a scope available? The 530/830 use an LSI counter chip (TC5070P and the data sheet can be found at www.alldatasheet.co.kr/), unlike the 820 that uses 74-series logic. This chip does the counting, storage and multiplexing and drives two level shifting ICs.

Richard G3OTK

At 21:54 11/04/2006 +0000, you wrote:
>I am restoring this transeiver and would like help on the following
>To confirm i have fitted new 6146 and replaced the cathode /screen and
>screen divider resistors for tune position. All now ok 100watt out .
>However the Tuneposition is not working correctly . following
>instructions the IA is set at 60ma on ssb but when returning to tune
>thereis virtualy zero current . consequently i am unable to DIP on
>this safe setting .the screen voltage is halved on tune as
>measured.Consequently i tuned on max power quickly!
>
>ALC Following the instruction manual on tune the drive does not peak

>the ALC reading Nb I am able by readjustment off bias pot to have
>reading on tune but on returning to ssb stannding current is 150ma.
>all voltoges appear ok
>
>The Notch knob control is seized it will not move is this a dual pot?
>
>The display is now working on all bands after clearing a bad pin/skt
>on pcb . But one segment is out on all figures so 0 looks 9 any
>thoughts on this one Views and ideas Please BOB G8ACQ
>
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7229. I am new to the list

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 07:47:29 UTC
From: OneG @ The Taj Mahal
Topic: 7229 Message: 7229

Hi I am new to the list..

I am working on my General ticket & purchased a ts-530s.

My Dg5 is screwing up & I lose 1 quadrant of the display, also I think
the last digit..
I am fairly good with 12 V electrics but this is surely beyond me.
Any advise on getting it repaired or fixing it myself......
The Quadrants will come on eventually but not the last digit...

Also I have just been given a cushcraft AV5.
1 of the (coils ??) looks smoked..
Would anyone know is this from Lightning or could it of failed because
of power...

Is it repairable? or shall I make it a huge Scanner Antenna??

Thanks in advance..

Gno

K7GNO

Middleton Idaho

7230. Re: [TS-520_820_530_830] I am new to the list

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 11:07:13 UTC
From: Richard Harris
Topic: 7229 Message: 7230

Do you mean that you are losing a segment common to all digits - I'm not sure what you mean by "quadrant"? The display is multiplexed and so a bad joint/contact between the segment driver and the display could give this result. Which segment is missing?

A second bad joint/contact on the digit driver might also explain the missing digit (I assume you mean the right-hand most digit)

You mention you have a TS-530S. Do you mean the TS-520S? The DG-5 display is an external display for the TS-520.

Richard G3OTK

At 01:47 12/04/2006 -0600, you wrote:
>Hi I am new to the list..
>
>I am working on my General ticket & purchased a ts-530s.
>
>My Dg5 is screwing up & I lose 1 quadrant of the display, also I think
>the last digit..
>I am fairly good with 12 V electrics but this is surely beyond me.
>Any advise on getting it repaired or fixing it myself......
>The Quadrants will come on eventually but not the last digit...
>
>
>Also I have just been given a cushcraft AV5.
>1 of the (coils ??) looks smoked..
>Would anyone know is this from Lightning or could it of failed because
>of power...
>
>Is it repairable? or shall I make it a huge Scanner Antenna??
>
>Thanks in advance..
>
>Gno
>
>K7GNO
>
>Middleton Idaho
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on

> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7231. Low power TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 13:05:07 UTC
From: srdente
Topic: 7231 Message: 7231

I have a 530s and I have full power for cw but for SSB I'm only putting out about 25-35 watts on all bands. Finals and driver are new. Where would be a good place to start looking and what tests. I have the service manual and schems for it. Thanks for any help.Dennis N8YK

7232. Re: [TS-520_820_530_830] Low power TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 14:37:41 UTC
From: Walt Breining
Topic: 7231 Message: 7232

If this is the voice peaks when you are talking into the mike, this is normal. You are still putting the full peak power, but your meter cannot begin to move fast enough to follow your voice peaks. With your meter switch in ALC do you get deflection to the end of the ALC mark on the ALC scale when you speak some of the time? (not full meter scale). If you give a long steady whistle into the mike, it will probably read higher.

I'm betting that everything is OK.
Vy 73, Walt N9WB

----- Original Message -----
From: "srdente" <srdente@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 12, 2006 8:05 AM
Subject: [TS-520_820_530_830] Low power TS530s

> I have a 530s and I have full power for cw but for SSB I'm only
> putting out about 25-35 watts on all bands. Finals and driver are new.
> Where would be a good place to start looking and what tests. I have
> the service manual and schems for it. Thanks for any help.Dennis N8YK
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7233. Re: [TS-520_820_530_830] TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 15:15:30 UTC
From: Walt Breining
Topic: 7227 Message: 7233

Have you measured the screen grid voltage while on tune? A failure of R 15
on the rectifier board usually causes the Tune position not to work, but
when this happens, you have no screen voltage in Tune.

Vy 73, Walt N9WB

----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 11, 2006 4:54 PM
Subject: [TS-520_820_530_830] TS 830 m

> I am restoring this transeiver and would like help on the following
> To confirm i have fitted new 6146 and replaced the cathode /screen and
> screen divider resistors for tune position. All now ok 100watt out .
> However the Tuneposition is not working correctly . following
> instructions the IA is set at 60ma on ssb but when returning to tune
> thereis virtualy zero current . consequently i am unable to DIP on
> this safe setting .the screen voltage is halved on tune as
> measured.Consequently i tuned on max power quickly!
>
> ALC Following the instruction manual on tune the drive does not peak
> the ALC reading Nb I am able by readjustment off bias pot to have
> reading on tune but on returning to ssb stannding current is 150ma.
> all voltoges appear ok
>
> The Notch knob control is seized it will not move is this a dual pot?
>
> The display is now working on all bands after clearing a bad pin/skt
> on pcb . But one segment is out on all figures so 0 looks 9 any
> thoughts on this one Views and ideas Please BOB G8ACQ
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

>

7234. TS-820 Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 14:20:10 UTC
From: Hauser, Ron M.
Topic: 7234 Message: 7234

Ok, I have the pdf file of the TS-820 service manual that is on a few different sites. File name is TS-820S_Service_manual.pdf, I got one copy off of HAMFTP, and another off the mods.dk site. I can read it ok on my computer using the pdf reader, but when I try to print it, there seems to be a problem. It seems to print one page at a time, very very slowly, and I'm wondering if anyone else has had any problems with printing this PDF. When I look at it on the computer using the pdf reader, I see that some pages are of a different size. I wonder if the pdf is corrupted in some way. Additionally, does anyone have a different copy of this manual in a cleaner file?

Thanks!
--Ron
KC0TLN

7235. Re: Low power TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 14:34:16 UTC
From: srdente
Topic: 7231 Message: 7235

Walt, When I am talking normal it is peaking right at the top of the ALC scale.I went thru the tunng procedures in the manual and I am getting all the right responses. It must be doing OK. Thanks for the help Dennis N8YK

7236. Re: TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 17:51:45 UTC
From: budgiebob2005
Topic: 7227 Message: 7236

--Walt I can confirm that screen voltage is correct and reduces to 130volts on tune . I had originally to replace the r in btm end off divider as screen volts were high on both settings . Today investigating further i find that c w acts just the same as tune other than screen volts rise but standing current very low athough set at 60ma on
ssb
So when i key on cw i get no output yet ssb shows 60ma standing current and talks up to 100 watts It looks as if i have a fault common to tune and cw.? I repeat from my first post that peak only works on receive and does not affect alc display reading which is three quarter scale does this ring any bells thanks for repland any further ideas BOB
G8ACQ
-
In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Have you measured the screen grid voltage while on tune? A failure of R 15
> on the rectifier board usually causes the Tune position not to work, but
> when this happens, you have no screen voltage in Tune.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "budgiebob2005" <budgiebob@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, April 11, 2006 4:54 PM
> Subject: [TS-520_820_530_830] TS 830 m
>
>
> > I am restoring this transeiver and would like help on the following
> > To confirm i have fitted new 6146 and replaced the cathode /screen and
> > screen divider resistors for tune position. All now ok 100watt out .
> > However the Tuneposition is not working correctly . following
> > instructions the IA is set at 60ma on ssb but when returning to tune
> > thereis virtualy zero current . consequently i am unable to DIP on
> > this safe setting .the screen voltage is halved on tune as

> > measured.Consequently i tuned on max power quickly!
> >
> > ALC Following the instruction manual on tune the drive does not
peak
> > the ALC reading Nb I am able by readjustment off bias pot to
have
> > reading on tune but on returning to ssb stannding current is
150ma.
> > all voltoges appear ok
> >
> > The Notch knob control is seized it will not move is this a
dual pot?
> >
> > The display is now working on all bands after clearing a bad
pin/skt
> > on pcb . But one segment is out on all figures so 0 looks 9
any
> > thoughts on this one Views and ideas Please BOB G8ACQ
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
>

7237. Re: [TS-520_820_530_830] I am new to the list

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 17:53:25 UTC
From: OneG @ The Taj Mahal
Topic: 7229 Message: 7237

Richard Harris wrote:
> Do you mean that you are losing a segment common to all digits - I'm not
> sure what you mean by "quadrant"? The display is multiplexed and so a bad
> joint/contact between the segment driver and the display could give this
> result. Which segment is missing?
>
> A second bad joint/contact on the digit driver might also explain the
> missing digit (I assume you mean the right-hand most digit)
>
> You mention you have a TS-530S. Do you mean the TS-520S? The DG-5 display
> is an external display for the TS-520.
>
> Richard G3OTK
>

Hi Richard::

Yes the lower right (segment) on all digits goes on & off depending on
if its cold or not..

The last digit comes on weak sometimes...(rarely)

& yes I did mean TS 520S..

& yes the Dg5 is the Freq counter for it..

I should of been more clear..

Thanks for the reply...

K7gno

Gno

>

7238. Re: TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 18:03:15 UTC
From: budgiebob2005
Topic: 7227 Message: 7238

Richard thanks for your reply First new infomation. Today I
wired a key and found that on CW I get low ie not the 60ma i set
standing current and this does NOT increase when I key so it appears
that tune /cw may have common fault. ssb talks up to 100w ok .
when you say you can drive in tune position what are you driving
with Carrier? As my original post my ALC does not alter or peak
using peak control this works fine on
rx
Yes I have a scope but I am not sure what to expect is there a test
i can do to prove if it is the display itself. please see my other
reply to Walt Regards thanks for your time BOB
G8ACQ

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>
> Bob,
>
> I have a couple of 530s, which as I am sure you know is the
slightly down
> market version of the 830, so I will assume that much of what
applies to
> the 530 also applies to the 830.
>
> The screen grid voltage is reduced in the TUNE position the
standing anode
> current is zero, or very close to zero. On the 530, in TUNE, I can
drive
> the plate current up to about 100mA. With an anode voltage of,
say 850V,
> this gives a dissipation of 85W. The plate dissipation for the
6146B in
> ICAS operation is 35W, so assuming that the power is shared
equally, the
> dissipation is just a bit above the rating of the tubes, so it is
a fairly
> safe way of tuning up. If you have a problem dipping, then you
could
> switch the meter to the RF voltage position and peak that. My
> (uncalibrated) AT-230 ATU shows about 12W maximum output in the
TUNE position.
>
> When tuning up, I select TUNE and peak the ALC reading using the
DRIVE
> control. I then peak the output whilst looking at the meter on

the AT-230
> and then adjust the ATU for zero reflected power. I then switch
to CW and
> quickly peak the output of the 530 - I find the 530 PI-output
settings are
> not quite the optimum if set in the TUNE position. I do not
monitor the
> plate current at any time.
>
> I can understand the attractions of modern transceivers with
> auto-ATUs! Less fun though......
>
> The display is multiplexed and if you have one segment out on all
digits
> then this may well be a counter/driver fault although it could
still be a
> display fault. Do you have a scope available? The 530/830 use an
LSI
> counter chip (TC5070P and the data sheet can be found at
> www.alldatasheet.co.kr/), unlike the 820 that uses 74-series
logic. This
> chip does the counting, storage and multiplexing and drives two
level
> shifting ICs.
>
> Richard G3OTK
>
>
> At 21:54 11/04/2006 +0000, you wrote:
> >I am restoring this transeiver and would like help on the
following
> >To confirm i have fitted new 6146 and replaced the
cathode /screen and
> >screen divider resistors for tune position. All now ok 100watt
out .
> >However the Tuneposition is not working correctly . following
> >instructions the IA is set at 60ma on ssb but when returning to
tune
> >thereis virtualy zero current . consequently i am unable to DIP on
> >this safe setting .the screen voltage is halved on tune as
> >measured.Consequently i tuned on max power quickly!
> >
> >ALC Following the instruction manual on tune the drive does not
peak
> >the ALC reading Nb I am able by readjustment off bias pot to
have
> >reading on tune but on returning to ssb stannding current is
150ma.
> >all voltoges appear ok
> >

> >The Notch knob control is seized it will not move is this a dual
pot?
> >
> >The display is now working on all bands after clearing a bad
pin/skt
> >on pcb . But one segment is out on all figures so 0 looks 9 any
> >thoughts on this one Views and ideas Please BOB G8ACQ
> >
> >
> >
> >
> >
> >
> >----------
> >YAHOO! GROUPS LINKS
> > * Visit your group
> > "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-
520_820_530_830" on
> > the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > *
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > *
> > * Your use of Yahoo! Groups is subject to the
> > <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >
> >
> >----------
>
>
>
> Richard Harris
> PIPS Technology Ltd,
> York House,
> School Lane,
> Chandlers Ford,
> Eastleigh
> SO53 4DG
> United Kingdom
>
> Tel +44 (0) 2380 240250
> Direct +44 (0) 2380 240267
> Mobile +44 (0) 7808 935630
> Fax +44 (0) 2380 240251
>
> Web site www.pipstechnology.com

>
> =====Confidentiality Notice=====
> This electronic mail message and any attachment may contain
information
> that is legally privileged, confidential or exempt from disclosure.
> It is intended only for the use of the individual or organisation
to whom
> it is addressed. If you are not the intended recipient it is
strictly
> prohibited to disclose, use, store or copy this information
>
> ========================
>
>
> [Non-text portions of this message have been removed]
>

7239. TS530SP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 20:31:40 UTC
From: KEN (G3SDW)
Topic: 7239 Message: 7239

HI EVERYBODY HAVE JUST JOINED BUT HAVE BEEN A KENWOOD HYBRID FAN FOR
MANY MANY YEARS.
HAS ANYONE A SERVICE MANUAL FOR THE ABOVE OR KNOWS WERE I CAN DOWNLOAD
ONE FROM.
GREAT SITE
73
KEN UNDERWOOD
G3SDW....

7240. Re: [TS-520_820_530_830] Re: TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-12 21:40:31 UTC
From: Walt Breining
Topic: 7227 Message: 7240

The next thing is to be SURE that the carrier control is fully up. This is behind the Mike gain control.

Next, if a key is installed in the CW jack it must be closed to get output on tune and CW.

After checking the above, please note that there is a set of contacts in the CW jack that closes when no plug is inserted into the CW Jack. Get a mono phone plug to fit the CW jack. short the tip and ring contacts. Plug it into the CW jack. Do you get any carrier now ?

I am not very familiar with the 830 (M) version. Does it have AM ? If so, do you get any carrier output on AM ?

Vy 73, Walt N9WB

----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 12, 2006 12:51 PM
Subject: [TS-520_820_530_830] Re: TS 830 m

> --Walt I can confirm that screen voltage is correct and reduces to
> 130volts on tune . I had originally to replace the r in btm end off
> divider as screen volts were high on both settings . Today
> investigating further i find that c w acts just the same as tune
> other than screen volts rise but standing current very low athough
> set at 60ma on
> ssb
> So when i key on cw i get no output yet ssb shows 60ma
> standing current and talks up to 100 watts It looks as if i have a
> fault common to tune and cw.? I repeat from my first post that
> peak only works on receive and does not affect alc display reading
> which is three quarter scale does this ring any bells thanks for
> repland any further ideas BOB
> G8ACQ
> -
> In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
> wrote:
> >
> > Have you measured the screen grid voltage while on tune? A failure
> of R 15
> > on the rectifier board usually causes the Tune position not to
> work, but
> > when this happens, you have no screen voltage in Tune.
> >

> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Tuesday, April 11, 2006 4:54 PM
> > Subject: [TS-520_820_530_830] TS 830 m
> >
> >
> > > I am restoring this transeiver and would like help on the
> following
> > > To confirm i have fitted new 6146 and replaced the
> cathode /screen and
> > > screen divider resistors for tune position. All now ok 100watt
> out .
> > > However the Tuneposition is not working correctly . following
> > > instructions the IA is set at 60ma on ssb but when returning to
> tune
> > > thereis virtualy zero current . consequently i am unable to DIP
> on
> > > this safe setting .the screen voltage is halved on tune as
> > > measured.Consequently i tuned on max power quickly!
> > >
> > > ALC Following the instruction manual on tune the drive does not
> peak
> > > the ALC reading Nb I am able by readjustment off bias pot to
> have
> > > reading on tune but on returning to ssb stannding current is
> 150ma.
> > > all voltoges appear ok
> > >
> > > The Notch knob control is seized it will not move is this a
> dual pot?
> > >
> > > The display is now working on all bands after clearing a bad
> pin/skt
> > > on pcb . But one segment is out on all figures so 0 looks 9
> any
> > > thoughts on this one Views and ideas Please BOB G8ACQ
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >

> > >
> > >
> > >
> > >
> > >
> >
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7241. Re: [TS-520_820_530_830] I am new to the list

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-13 02:58:21 UTC
From: OneG @ The Taj Mahal
Topic: 7229 Message: 7241

Richard Harris wrote:
> Do you mean that you are losing a segment common to all digits - I'm not
> sure what you mean by "quadrant"? The display is multiplexed and so a bad
> joint/contact between the segment driver and the display could give this
> result. Which segment is missing?
>
> A second bad joint/contact on the digit driver might also explain the
> missing digit (I assume you mean the right-hand most digit)
>
> You mention you have a TS-530S. Do you mean the TS-520S? The DG-5 display
> is an external display for the TS-520.
>
> Richard G3OTK
>

Richard:

How would I find out where on the board that exactly is..

I have had it apart & didn't really see anything that looked like a cold
solder..

It is the bottom right segment that goes out on ALL digits..

Thanks..

gno

7242. Re: Low power TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-13 03:00:56 UTC
From: ke9zm
Topic: 7231 Message: 7242

> I have a 530s and I have full power for cw but for SSB I'm only
> putting out about 25-35 watts on all bands. Finals and driver are new.
> Where would be a good place to start looking and what tests. I have
> the service manual and schems for it. Thanks for any help.Dennis N8YK

This is normal to see on on a physical analog meter. To see the full
power you might try whistling into the mic at a steady pitch. At about
1000Hz you should see a steady power out of maybe 85-100 watts.

On my Yaesu FT-847 with a fast LCD display I can see voice peaks at
100W but my analog meter on my tuner only shows about 25-30W

Gary / ke9zm

7243. Re: [TS-520_820_530_830] Re: TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-13 07:00:58 UTC
From: Richard Harris
Topic: 7227 Message: 7243

Bob,

Walt is doing his usual fine job around the PAs, so I'll concentrate on the display. I assume that you have a copy of the 830 Service Manual - if not I can e-mail a copy to you.

From your first e-mail, I assume that it is the bottom left segment that is no being illuminated. This is the "E" segment by convention. The counter/store/decoder is Q5 and hopefully this is OK. For this IC to drive the display, two level shifters are required, Q10 for the segments and Q11 for the digits. Q10 is a TC5066BP - I don't know what that is, but its output drivers may be as simple as an array of PNP transistors - and the outputs that feed the segments of the display are pulled down to the negative voltage of the display by a resistor array RB-2. The inputs to Q10, from Q5, are pulled down to 0V by another resistor array RB-1.

So I suggest you check out Q5 pin 9 to Q10 pin 5 and Q10 pin 11 to the display, verify at the same time that the appropriate resistors in the resistor arrays (4k7) don't have dry joints or are open circuited.

If you want to discuss this over the weekend give me a call on 07808 935630.

Richard G3OTK

At 18:03 12/04/2006 +0000, you wrote:
> Richard thanks for your reply First new infomation. Today I
>wired a key and found that on CW I get low ie not the 60ma i set
>standing current and this does NOT increase when I key so it appears
>that tune /cw may have common fault. ssb talks up to 100w ok .
>when you say you can drive in tune position what are you driving
>with Carrier? As my original post my ALC does not alter or peak
>using peak control this works fine on
>rx
>Yes I have a scope but I am not sure what to expect is there a test
>i can do to prove if it is the display itself. please see my other
>reply to Walt Regards thanks for your time BOB
>G8ACQ
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
><rjharris@...> wrote:
> >
> > Bob,
> >

> > I have a couple of 530s, which as I am sure you know is the
>slightly down
> > market version of the 830, so I will assume that much of what
>applies to
> > the 530 also applies to the 830.
> >
> > The screen grid voltage is reduced in the TUNE position the
>standing anode
> > current is zero, or very close to zero. On the 530, in TUNE, I can
>drive
> > the plate current up to about 100mA. With an anode voltage of,
>say 850V,
> > this gives a dissipation of 85W. The plate dissipation for the
>6146B in
> > ICAS operation is 35W, so assuming that the power is shared
>equally, the
> > dissipation is just a bit above the rating of the tubes, so it is
>a fairly
> > safe way of tuning up. If you have a problem dipping, then you
>could
> > switch the meter to the RF voltage position and peak that. My
> > (uncalibrated) AT-230 ATU shows about 12W maximum output in the
>TUNE position.
> >
> > When tuning up, I select TUNE and peak the ALC reading using the
>DRIVE
> > control. I then peak the output whilst looking at the meter on
>the AT-230
> > and then adjust the ATU for zero reflected power. I then switch
>to CW and
> > quickly peak the output of the 530 - I find the 530 PI-output
>settings are
> > not quite the optimum if set in the TUNE position. I do not
>monitor the
> > plate current at any time.
> >
> > I can understand the attractions of modern transceivers with
> > auto-ATUs! Less fun though......
> >
> > The display is multiplexed and if you have one segment out on all
>digits
> > then this may well be a counter/driver fault although it could
>still be a
> > display fault. Do you have a scope available? The 530/830 use an
>LSI
> > counter chip (TC5070P and the data sheet can be found at
> > www.alldatasheet.co.kr/), unlike the 820 that uses 74-series
>logic. This
> > chip does the counting, storage and multiplexing and drives two
>level

> > shifting ICs.
> >
> > Richard G3OTK
> >
> >
> > At 21:54 11/04/2006 +0000, you wrote:
> > >I am restoring this transeiver and would like help on the
>following
> > >To confirm i have fitted new 6146 and replaced the
>cathode /screen and
> > >screen divider resistors for tune position. All now ok 100watt
>out .
> > >However the Tuneposition is not working correctly . following
> > >instructions the IA is set at 60ma on ssb but when returning to
>tune
> > >thereis virtualy zero current . consequently i am unable to DIP on
> > >this safe setting .the screen voltage is halved on tune as
> > >measured.Consequently i tuned on max power quickly!
> > >
> > >ALC Following the instruction manual on tune the drive does not
>peak
> > >the ALC reading Nb I am able by readjustment off bias pot to
>have
> > >reading on tune but on returning to ssb stannding current is
>150ma.
> > >all voltoges appear ok
> > >
> > >The Notch knob control is seized it will not move is this a dual
>pot?
> > >
> > >The display is now working on all bands after clearing a bad
>pin/skt
> > >on pcb . But one segment is out on all figures so 0 looks 9 any
> > >thoughts on this one Views and ideas Please BOB G8ACQ
> > >
> > >
> > >
> > >
> > >
> > >
> > >----------
> > >YAHOO! GROUPS LINKS
> > > * Visit your group
> > >
> "<<http://groups.yahoo.com/group/TS-520_820_530_830>http://groups.yahoo.com/group/TS-520
_820_530_830>TS-
>520_820_530_830" on
> > > the web.
> > > *
> > > * To unsubscribe from this group, send an email to:

> > > *
> > > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
>subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > *
> > > * Your use of Yahoo! Groups is subject to the
> > >
> <<http://docs.yahoo.com/info/terms/>http://docs.yahoo.com/info/terms/>Yahoo!
> Terms of Service.
> > >
> > >
> > >
> > >----------
> >
> >
> >
> > Richard Harris
> > PIPS Technology Ltd,
> > York House,
> > School Lane,
> > Chandlers Ford,
> > Eastleigh
> > SO53 4DG
> > United Kingdom
> >
> > Tel +44 (0) 2380 240250
> > Direct +44 (0) 2380 240267
> > Mobile +44 (0) 7808 935630
> > Fax +44 (0) 2380 240251
> >
> > Web site www.pipstechnology.com
> >
> > =====Confidentiality Notice=====
> > This electronic mail message and any attachment may contain
>information
> > that is legally privileged, confidential or exempt from disclosure.
> > It is intended only for the use of the individual or organisation
>to whom
> > it is addressed. If you are not the intended recipient it is
>strictly
> > prohibited to disclose, use, store or copy this information
> >
> > ========================
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7244. Re: [TS-520_820_530_830] I am new to the list

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-13 07:41:15 UTC
From: Richard Harris
Topic: 7229 Message: 7244

Hi Gno,

Sounds like a joint/contact problem or two. The lower right segment is the "C" segment by convention.

The display is multiplexed, that is one digit at a time is illuminated and the sequence of digits is run through sufficiently fast that it looks continuous. Therefore there are two drivers connected to the display, one that drives segments (LED cathodes) and one that drives digits (commoned LED anodes). It seems you may have problems with both.

Incidentally, I had assumed that the DG5 used the same circuitry as the display in the TS820. Fortunately I took a look at the DG-5 information that I have and found that it doesn't, so that's an embarrassment avoided! Do you have a copy of the schematics of the DG-5? If not drop me an e-mail.

The segment decoder is IC39, a SN74247, (try www.alldatasheet.com/datasheet-pdf/pdf/TI/SN74247.html if you want a copy of the data sheet) and segment "C" is driven from pin 11. The current to the "C" segment of the LED is fixed by R105 (56 ohms) and this goes to pin 8 of each of the three dual LED digits, D1 to D3. So I suggest checking out this path. If you don't have a 'scope to check for activity on these pins, then I suggest a good visual inspect/re-soldering of the pins.

Now to the digit driver. The right-hand digit (D3) has all of the anodes of the segments connected to pin 13 and this is driven by Q25 (a PNP 2SA562) This is "on" for one-sixth of the time. Q25 is driven from IC41 pin 4 via R112 (470 ohms) - IC41 decodes the digit counter IC40 so that one LED at a time is driven. So I suggest you check the path IC41 pin 4 to D3 pin 13.

Good luck!. I will be QRT on e-mail from 17:00 UTC today until Tuesday. Let me know how you get on..

73s,

Richard G3OTK

At 11:53 12/04/2006 -0600, you wrote:
>Richard Harris wrote:
> > Do you mean that you are losing a segment common to all digits - I'm not
> > sure what you mean by "quadrant"? The display is multiplexed and so a bad
> > joint/contact between the segment driver and the display could give this
> > result. Which segment is missing?
> >
> > A second bad joint/contact on the digit driver might also explain the

> > missing digit (I assume you mean the right-hand most digit)
> >
> > You mention you have a TS-530S. Do you mean the TS-520S? The DG-5
> display
> > is an external display for the TS-520.
> >
> > Richard G3OTK
> >
>
>Hi Richard::
>
>Yes the lower right (segment) on all digits goes on & off depending on
>if its cold or not..
>
>The last digit comes on weak sometimes...(rarely)
>
>& yes I did mean TS 520S..
>
>& yes the Dg5 is the Freq counter for it..
>
>I should of been more clear..
>
>Thanks for the reply...
>
>K7gno
>
>Gno
>
>
>
>
>
>
> >
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the

> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7245. Re: [TS-520_820_530_830] I am new to the list

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-13 07:46:20 UTC
From: Richard Harris
Topic: 7229 Message: 7245

Gno,

I will e-mail the schematics/layout of the DG-5 to you.

Richard

At 20:58 12/04/2006 -0600, you wrote:
>Richard Harris wrote:
> > Do you mean that you are losing a segment common to all digits - I'm not
> > sure what you mean by "quadrant"? The display is multiplexed and so a bad
> > joint/contact between the segment driver and the display could give this
> > result. Which segment is missing?
> >
> > A second bad joint/contact on the digit driver might also explain the
> > missing digit (I assume you mean the right-hand most digit)
> >
> > You mention you have a TS-530S. Do you mean the TS-520S? The DG-5
> display
> > is an external display for the TS-520.
> >
> > Richard G3OTK
> >
>
>Richard:
>
>How would I find out where on the board that exactly is..
>
>I have had it apart & didn't really see anything that looked like a cold
>solder..
>
>It is the bottom right segment that goes out on ALL digits..
>
>
>Thanks..
>
>gno
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *

> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7246. Re: [TS-520_820_530_830] TS530SP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-13 08:07:43 UTC
From: Richard Harris
Topic: 7239 Message: 7246

Ken,

TS530 Service Manual on its way by direct e-mail!

Richard G3OTK

At 20:31 12/04/2006 +0000, you wrote:
>HI EVERYBODY HAVE JUST JOINED BUT HAVE BEEN A KENWOOD HYBRID FAN FOR
>MANY MANY YEARS.
>HAS ANYONE A SERVICE MANUAL FOR THE ABOVE OR KNOWS WERE I CAN DOWNLOAD
>ONE FROM.
>GREAT SITE
>73
>KEN UNDERWOOD
>G3SDW....
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7247. TS-520 meter pegs right in receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 00:20:50 UTC
From: james27613
Topic: 7247 Message: 7247

hi,

My turn to ask a question for a change !

picked up a very clean ts-520,
with unknown history.

No obvious signs of abuse or modifications,
insides are pristine !

During initial testing

when powered on, (few seconds only !)

the meter pegs full scale and will
remain there, no change if any
switches or controls are used.

AF RF gain controls at minimum,
no speaker output,
with af rf max speaker output very weak

Meter functions in xmt (dummy load)
tune setting to verify hv is ok.

I appreciate any tips for troubleshooting.

73 james ke4drn

7248. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 00:52:38 UTC
From: pchapman9202003
Topic: 7099 Message: 7248

There was a mod which may be the one on rube, which is not for the faint of heart, nor for the non-techie at all that was published in QST, and there are some power trades to be made to accomplish it. There were also flaws in the QST article that were corrected in a follow up article on some of the wiring, by someone who did a web publish on it, some time after the QST article. It can be done, just move with extreme caution.

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Like I said, the TS-820, not the 830. I did exactly what message
> 5473 recommends - for a TS-830S, to the 830S we had at W9YT (at the
> Univ. of WI), back in 1987, so I could get the rig on 12m. The 820
> has no band switch positions for the WARC bands. I also don't feel
> like just about gutting the radio to give it WARC band capability.
> Nor do I feel like losing any of the traditional 6 ham bands, just to
> add WARC bands. I was wondering if it was possible to use the AUX
> switch position for this, or will it only receive WWV in the AUX
> position. If none of this is possible then, I'll just leave the
> radio alone.
>
> Ellen - AF9J
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
> <evokefrank@> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > I agree,
> > >
> > > I wouldn't mind adding the WARC bands (even just 1 band would be
> > > nice). I tried the RUBE site, but you need to be a member to
> access
> > > the site. Also, does anybody know if these Warc band mods are
> > > doable, without sacrificing, any of the bands this fine radio
> > > already has?

> >
> > Some of this is covered some in message number 5473. Let us
know if
> > you come up with anything solid!
> >
>

7249. Re: [TS-520_820_530_830] TS-520 meter pegs right in receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 00:55:37 UTC
From: Gord Sturos
Topic: 7247 Message: 7249

Turn the RF gain all the way clock wise.

james27613 <james27613@...> wrote: hi,

My turn to ask a question for a change !

picked up a very clean ts-520,
with unknown history.

No obvious signs of abuse or modifications,
insides are pristine !

During initial testing

when powered on, (few seconds only !)

the meter pegs full scale and will
remain there, no change if any
switches or controls are used.

AF RF gain controls at minimum,
no speaker output,
with af rf max speaker output very weak

Meter functions in xmt (dummy load)
tune setting to verify hv is ok.

I appreciate any tips for troubleshooting.

73 james ke4drn

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Character is doing the right thing even when no one is watching.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for

2¢/min or less.

[Non-text portions of this message have been removed]

7250. Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 01:08:15 UTC
From: pchapman9202003
Topic: 7122 Message: 7250

Unfortunately, I ruined an old ugly GE mic on my 820s everyone seemed to love as opposed to everything else I plugged in. So what is the deal with Ken's? Anyone have experience with the mic or can comment on comping to the other goodies out there

BOB?

--- In TS-520_820_530_830@yahoogroups.com, "Bob Baxter" <aa7eq.ham@...> wrote:
>
> Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to $60.
> Ken's Electronics at
> http://www.kenselectronics.com/lists/mics.htm#Amateur
> sells a hand mike for $29.
>
> Bob Baxter aa7eq
>
> On 4/1/06, unifiedcourt <hrhoule@...> wrote:
> > Can someone tell me where to buy a desk mic (even a hand held mic) that I
> > can purchase
> > for my TS-520. Thanks....Ron KB2SQY
> >
> >
> >
> >
> >
> > _____
> > YAHOO! GROUPS LINKS
> >
> >
> > Visit your group "TS-520_820_530_830" on the web.
> >
> > To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> >
> > _____
> >
>
>
> --

> Bob Baxter AA7EQ
> Walnut Ridge, Ar.
>

7251. Re: SWR

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 01:14:07 UTC
From: pchapman9202003
Topic: 7105 Message: 7251

If you are in bypass mode, you are not using the tuner...period.

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
<evokefrank@...> wrote:
>
> Okay, it seems like I have the antenna tuner calibrated correctly now.
>
> I switched the 520 to TUNE, and key'd the mic and now get 1:1 on 40
> meters with the antenna tuner enabled.
>
> With the antenna tuner in bypass (THROUGH) mode, I get a 5:1 on 40
> meters. Still seems high.
>

7252. Re: TS 820 WARC mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 03:50:59 UTC
From: Ellen R
Topic: 7099 Message: 7252

Over the last week or so (especially since I fixed the problem I had with my finals, this last Sunday), modifying my 820 for the WARC bands has become a pretty low priority. Besides, if I want to operate on the WARC bands, I have an IC-703 Plus I can use for doing that.

At the present time, I'm happy with the rig. My only bummer, is being stuck with the set of Chinese 6146Bs I bought 2 weeks ago, that flashed over on me when I powered them up. They're basically a white elephant to me.

I gave the radio a shakedown QSO on both 40m SSB & CW, with WD5ABC. It works fine (although the transmit freq. on SSB is off of the receive freq. by about 200 Hz - I'll have to realign that). But, the Phillips finals that came with the rig are tired. I couldn't get more than 70W out of them, even into a 300W dummy load.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003" <p_chap@...> wrote:
>
> There was a mod which may be the one on rube, which is not for the
> faint of heart, nor for the non-techie at all that was published in
> QST, and there are some power trades to be made to accomplish it.
> There were also flaws in the QST article that were corrected in a
> follow up article on some of the wiring, by someone who did a web
> publish on it, some time after the QST article. It can be done, just
> move with extreme caution.
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Like I said, the TS-820, not the 830. I did exactly what message
> > 5473 recommends - for a TS-830S, to the 830S we had at W9YT (at
> the
> > Univ. of WI), back in 1987, so I could get the rig on 12m. The
> 820
> > has no band switch positions for the WARC bands. I also don't
> feel
> > like just about gutting the radio to give it WARC band
> capability.
> > Nor do I feel like losing any of the traditional 6 ham bands,

```
just
> to
> > add WARC bands. I was wondering if it was possible to use the AUX
> > switch position for this, or will it only receive WWV in the AUX
> > position. If none of this is possible then, I'll just leave the
> > radio alone.
> >
> > Ellen - AF9J
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
> > <evokefrank@> wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > I agree,
> > > >
> > > > I wouldn't mind adding the WARC bands (even just 1 band would
> be
> > > > nice). I tried the RUBE site, but you need to be a member to
> > access
> > > > the site. Also, does anybody know if these Warc band mods
are
> > > > doable, without sacrificing, any of the bands this fine
radio
> > > > already has?
> > >
> > > Some of this is covered some in message number 5473. Let us
> know if
> > > you come up with anything solid!
> > >
> >
>
```

7253. Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 04:04:57 UTC
From: Ellen R
Topic: 7122 Message: 7253

I got my mic from Kens last week Friday for my 820. The audio with it seems to be pretty good. BUT, it is a hand mic (actually I prefer hand mics to desk mics, I find them ergonomically friendlier). It cost me about 30 dollars. I will say this, I suspect that it's from an old FT-101, because it has a cutout on it's face where the Yaesu nameplate would go, and looks identical to the mic I used with my FT-101B back in 1986 & 87.

If you're waiting, and have any quesions, do like I did, and e-mailan inquiry off to them: here's the URL for the inquiry (it's sort of a fill in the blanks form):

http://www.kenselectronics.com/about/guestbook.html

They answered me within several hours of my sending an e-mail inquiry, informing me that the mic had been shipped out 2 days ago. I have no complaints about Kens. The mic works well. I also belong to SKCC (Straight Key Century Club). A ham in that club, who owns a TS-520S, gave me the referral to Kens. Just rea;lize that it may be a used mic. Ken states on his website, that he believes in recycling/reusing perfectly serviceable stuff,and that it's stupid to throw the stuff away.

Ellen - AF9J

P.S. - here's the URL for their m 520S & 820S wired mics:

http://www.kenselectronics.com/lists/mics.htm

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003" <p_chap@...> wrote:
>
> Unfortunately, I ruined an old ugly GE mic on my 820s everyone
> seemed to love as opposed to everything else I plugged in. So what
> is the deal with Ken's? Anyone have experience with the mic or can
> comment on comping to the other goodies out there
>
>
> BOB?
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bob Baxter"
> <aa7eq.ham@> wrote:
> >
> > Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to
> $60.
> > Ken's Electronics at
> > http://www.kenselectronics.com/lists/mics.htm#Amateur

> > sells a hand mike for $29.
> >
> > Bob Baxter aa7eq
> >
> > On 4/1/06, unifiedcourt <hrhoule@> wrote:
> > > Can someone tell me where to buy a desk mic (even a hand
held
> mic) that I
> > > can purchase
> > > for my TS-520. Thanks....Ron KB2SQY
> > >
> > >
> > >
> > >
> > >
> > > _____
> > > YAHOO! GROUPS LINKS
> > >
> > >
> > > Visit your group "TS-520_820_530_830" on the web.
> > >
> > > To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> > >
> > > _____
> > >
> >
> >
> > --
> > Bob Baxter AA7EQ
> > Walnut Ridge, Ar.
> >
>

7254. Re: Desk Mics - another thought

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 04:14:48 UTC
From: Ellen R
Topic: 7122 Message: 7254

If you insist upon a desk mic, e-mail Kens to see if they have anything desk micwise that will work with the 820.

Also, there are a lot of Astatic D-104 mics out there. Some are high impedance, some are low impedance, and some have a built-in preamp. The high impedance D-104 is usually from the 60s or earlier, and may be a little harder to find. The low impedance D-104 does you no good. But, the D-104 that came with a built-in pre-amp, that was made up until recently, should work OK with the 820 (the pre-amp helps to overcome impedance issues). A friend of mine uses a D-104 with the built-in pre-amp, he got off of e-bay, with his FT-101 (which also requires a high impedance mic), and it works fine for him. He gets good audio reports too.

73,
Ellen - AF9J

--- In TS-520_820_530_830@...m, "pchapman9202003" <p_chap@...> wrote:
>
> Unfortunately, I ruined an old ugly GE mic on my 820s everyone
> seemed to love as opposed to everything else I plugged in. So what
> is the deal with Ken's? Anyone have experience with the mic or can
> comment on comping to the other goodies out there
>
>
> BOB?
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bob Baxter"
> <aa7eq.ham@> wrote:
> >
> > Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to
> $60.
> > Ken's Electronics at
> > http://www.kenselectronics.com/lists/mics.htm#Amateur
> > sells a hand mike for $29.
> >
> > Bob Baxter aa7eq
> >
> > On 4/1/06, unifiedcourt <hrhoule@> wrote:
> > > Can someone tell me where to buy a desk mic (even a hand
held
> mic) that I
> > > can purchase
> > > for my TS-520. Thanks....Ron KB2SQY
> > >

> > >
> > >
> > >
> > >
> > > _____
> > > YAHOO! GROUPS LINKS
> > >
> > >
> > > Visit your group "TS-520_820_530_830" on the web.
> > >
> > > To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> > >
> > > _____
> > >
> >
> >
> > --
> > Bob Baxter AA7EQ
> > Walnut Ridge, Ar.
> >
>

7255. Re: TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 04:21:19 UTC
From: budgiebob2005
Topic: 7227 Message: 7255

Walt I can confirm that i had already done and have redone the key test and whilst i can hear the audio tone in LS there is no drive ie no change in IA confirm drive control at MAX.this is in full CW ie not tune .Both LSB /USB/and AM are good To recap I get no output in TUNE or CW Is there anything common in the drive cct. I ballanced standing current in usb lsb by setting DIP adjustment pot on IF board This is now stable as set at 60ma. Thanks for your input and time BOB
G8ACQ

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> The next thing is to be SURE that the carrier control is fully up. This is
> behind the Mike gain control.
>
> Next, if a key is installed in the CW jack it must be closed to get output
> on tune and CW.
>
> After checking the above, please note that there is a set of contacts in the
> CW jack that closes when no plug is inserted into the CW Jack. Get a mono
> phone plug to fit the CW jack. short the tip and ring contacts. Plug it into
> the CW jack. Do you get any carrier now ?
>
> I am not very familiar with the 830 (M) version. Does it have AM ? If so, do
> you get any carrier output on AM ?
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "budgiebob2005" <budgiebob@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 12, 2006 12:51 PM
> Subject: [TS-520_820_530_830] Re: TS 830 m
>
>
> > --Walt I can confirm that screen voltage is correct and reduces to

> > 130volts on tune . I had originally to replace the r in btm end
off
> > divider as screen volts were high on both settings . Today
> > investigating further i find that c w acts just the same as tune
> > other than screen volts rise but standing current very low
athough
> > set at 60ma on
> > ssb
> > So when i key on cw i get no output yet ssb shows 60ma
> > standing current and talks up to 100 watts It looks as if i
have a
> > fault common to tune and cw.? I repeat from my first post
that
> > peak only works on receive and does not affect alc display
reading
> > which is three quarter scale does this ring any bells thanks
for
> > repland any further ideas BOB
> > G8ACQ
>
>
-
> > In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > Have you measured the screen grid voltage while on tune? A
failure
> > of R 15
> > > on the rectifier board usually causes the Tune position not to
> > work, but
> > > when this happens, you have no screen voltage in Tune.
> > >
> > > Vy 73, Walt N9WB
> > >
> > > ----- Original Message -----
> > > From: "budgiebob2005" <budgiebob@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Tuesday, April 11, 2006 4:54 PM
> > > Subject: [TS-520_820_530_830] TS 830 m
> > >
> > >
> > > > I am restoring this transeiver and would like help on the
> > following
> > > > To confirm i have fitted new 6146 and replaced the
> > cathode /screen and
> > > > screen divider resistors for tune position. All now ok
100watt
> > out .
> > > > However the Tuneposition is not working correctly . following
> > > > instructions the IA is set at 60ma on ssb but when returning

to
> > tune
> > > > thereis virtualy zero current . consequently i am unable to
DIP
> > on
> > > > this safe setting .the screen voltage is halved on tune as
> > > > measured.Consequently i tuned on max power quickly!
> > > >
> > > > ALC Following the instruction manual on tune the drive does
not
> > peak
> > > > the ALC reading Nb I am able by readjustment off bias pot
to
> > have
> > > > reading on tune but on returning to ssb stannding current is
> > 150ma.
> > > > all voltoges appear ok
> > > >
> > > > The Notch knob control is seized it will not move is this a
> > dual pot?
> > > >
> > > > The display is now working on all bands after clearing a bad
> > pin/skt
> > > > on pcb . But one segment is out on all figures so 0 looks 9
> > any
> > > > thoughts on this one Views and ideas Please BOB G8ACQ
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> >
> >
> >
> >
> >
> >
> >

> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

7256. Re: [TS-520_820_530_830] TS-520 meter pegs right in receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 10:32:50 UTC
From: Walt Breining
Topic: 7247 Message: 7256

Meter will peg full scale on receive with Rf gain fully down.
Does it still peg with RF gain full up?
If so does it do so with the filaments off?
If not, does it do it with SG switch off but filaments on ?

Vy 73, Walt N9WB

----- Original Message -----
From: "james27613" <james27613@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, April 13, 2006 7:20 PM
Subject: [TS-520_820_530_830] TS-520 meter pegs right in receive

> hi,
>
> My turn to ask a question for a change !
>
> picked up a very clean ts-520,
> with unknown history.
>
> No obvious signs of abuse or modifications,
> insides are pristine !
>
> During initial testing
>
> when powered on, (few seconds only !)
>
> the meter pegs full scale and will
> remain there, no change if any
> switches or controls are used.
>
> AF RF gain controls at minimum,
> no speaker output,
> with af rf max speaker output very weak
>
> Meter functions in xmt (dummy load)
> tune setting to verify hv is ok.
>
> I appreciate any tips for troubleshooting.
>
> 73 james ke4drn
>
>
>
>
>

>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7257. Re: [TS-520_820_530_830] Re: Desk Mics - another thought

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 12:27:42 UTC
From: w3iz
Topic: 7122 Message: 7257

FYI
I have a D-104 on E-bay right now.
Item # 9710534267

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, April 14, 2006 12:14 AM
Subject: [TS-520_820_530_830] Re: Desk Mics - another thought

> If you insist upon a desk mic, e-mail Kens to see if they have
> anything desk micwise that will work with the 820.
>
> Also, there are a lot of Astatic D-104 mics out there. Some are high
> impedance, some are low impedance, and some have a built-in preamp.
> The high impedance D-104 is usually from the 60s or earlier, and may
> be a little harder to find. The low impedance D-104 does you no
> good. But, the D-104 that came with a built-in pre-amp, that was
> made up until recently, should work OK with the 820 (the pre-amp
> helps to overcome impedance issues). A friend of mine uses a D-104
> with the built-in pre-amp, he got off of e-bay, with his FT-101
> (which also requires a high impedance mic), and it works fine for
> him. He gets good audio reports too.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
> <p_chap@...> wrote:
>>
>> Unfortunately, I ruined an old ugly GE mic on my 820s everyone
>> seemed to love as opposed to everything else I plugged in. So what
>> is the deal with Ken's? Anyone have experience with the mic or can
>> comment on comping to the other goodies out there
>>
>>
>> BOB?
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "Bob Baxter"
>> <aa7eq.ham@> wrote:
>> >

>> > Kenwood MC-50 desk mikes are on Ebay most of the time, for 50 to
>> $60.
>> > Ken's Electronics at
>> > http://www.kenselectronics.com/lists/mics.htm#Amateur
>> > sells a hand mike for $29.
>> >
>> > Bob Baxter aa7eq
>> >
>> > On 4/1/06, unifiedcourt <hrhoule@> wrote:
>> > > Can someone tell me where to buy a desk mic (even a hand
> held
>> mic) that I
>> > > can purchase
>> > > for my TS-520. Thanks....Ron KB2SQY
>> > >
>> > >
>> > >
>> > >
>> > >
>> > > _____
>> > > YAHOO! GROUPS LINKS
>> > >
>> > >
>> > > Visit your group "TS-520_820_530_830" on the web.
>> > >
>> > > To unsubscribe from this group, send an email to:
>> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
>> > >
>> > > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service.
>> > >
>> > > _____
>> > >
>> >
>> >
>> > --
>> > Bob Baxter AA7EQ
>> > Walnut Ridge, Ar.
>> >
>>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>
>

[Non-text portions of this message have been removed]

7258. Re: [TS-520_820_530_830] Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 13:39:15 UTC
From: Walt Breining
Topic: 7122 Message: 7258

The impedance of a microphone is not very important. When there is an impedance mismatch, the level will be reduced.

If a low impedance microphone is fed into a high impedance input, the level will be lower than a high impedance microphone because the output voltage will be lower. If there is enough system gain to overcome this, there are some advantages to under-loading, that is loading a microphone with higher than it's output impedance. One of these advantages is that the frequency response will flatten out. intentional under-loading is often done in commercial work.

When a high impedance microphone is terminated by a low impedance it's frequency response will be limited. It will sound low middy or middy, sometimes thin. This is because some of the voltages will be swamped at certain frequencies.

The Astatic d-104 is a very very high impedance element. It sounds middy at 50 k ohms impedance and even worse at 500 ohms. The G8 stand has an amplifier that loads this element at one meg ohm and has an amplifier output impedance that is low. However it has plenty of soup to work well with a 50 k ohm input such as the Yaesu FT-101 or Kenwood TS-520 etc.

The problem with this is that the Astatic amplifier is still not high enough impedance load on the D-104 element even at 500 k ohms to 1 meg ohms so the element sounds too peaky in the mids.

If the amplifier is modified to a one FET amplifier, it will smooth out and sound very good with most rigs. It will sound good with the Kenwood Hybrids such as the TS-520-820-530-830 and the Yaesu FT-101 series and many others.

for more information on this go to http://n9wb.org/

If you want a hand mike Heil sound makes a Handi mike that he can put a HC-5 element into for you. Or you can fit the HC-5 into a existing mike. It will sound good.

Bill K0ZL established a Yahoo Group called KenwoodMics for discussing mikes for Kenwoods. Please join, and we can continue this discussion there.

http://groups.yahoo.com/group/KenwoodMics/

Vy 73, Walt N9WB

7259. RE: [TS-520_820_530_830] Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 13:04:04 UTC
From: Jack Rubin
Topic: 7122 Message: 7259

Walt (and Bill),

Some days I'm impressed with how much you guys know, but then I realize how much you _give_ and I'm blown away. Thank you for keeping the spirit of ham radio and the (old) internet alive. I'm just a Tech newbie but I've been lurking here a while and basking in the glow, tubes and otherwise. Someday I'll grow into my 820S.

73s,
Jack
KC9HVE

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.4.1/311 - Release Date: 4/13/2006

7260. Re: TS-520 meter pegs right in receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 21:16:28 UTC
From: james27613
Topic: 7247 Message: 7260

Hi walt and gord,

some additional information

No key or mic are connected.

rig powered on, immediate meter swing full scale peg right

AF or RF gain controls will not change the meter
peg to extreme right of scale, adjusting will not change
the meter position.

RF gain control full clockwise, af (counter to full clockwise)
very low audio to speaker, meter remains peg full scale right.

heater and sg switch are off, meter will peg full scale right
with heater on + sg off, same problem
with heater on + sg on, same problem

problem is there when in tune/cw/ssb modes

with heater off sg off, tune mode
SEND meter stays full scale peg right
if I move meter switch to HV (get good reading, meter responds)
Meter switch to RF, meter swings to zero (no key or mic in use)

I have the schematics and the op/svc manuals.

thanks !

73 james ke4drn

> Meter will peg full scale on receive with Rf gain fully down.
> Does it still peg with RF gain full up?
> If so does it do so with the filaments off?
> If not, does it do it with SG switch off but filaments on ?
>
> Vy 73, Walt N9WB
>

> > My turn to ask a question for a change !
> >
> > picked up a very clean ts-520,
> > with unknown history.
> >
> > No obvious signs of abuse or modifications,
> > insides are pristine !
> >

> > During initial testing
> >
> > when powered on, (few seconds only !)
> >
> > the meter pegs full scale and will
> > remain there, no change if any
> > switches or controls are used.
> >
> > AF RF gain controls at minimum,
> > no speaker output,
> > with af rf max speaker output very weak
> >
> > Meter functions in xmt (dummy load)
> > tune setting to verify hv is ok.
> >
> > I appreciate any tips for troubleshooting.
> >
> > 73 james ke4drn

7261. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 22:40:26 UTC
From: pchapman9202003
Topic: 7183 Message: 7261

Ellen:

Which mic model # did you buy from Ken's and was it equipped with
the cable and plug. Let us know what kind of reports you get with it
as well.

Thanks
Wa4NUN

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Chris,
>
> Unless you really have an extreme case of audio distortion
> (distortion is always hard on components - take this from a metal
> head guitarist, who has played distorted guitar in rock bands)
from
> having to crank the mic gain to the max , and then shout into the
mic
> to get enough modulation (a pretty rare set of conditions), it
really
> shouldn't hurt the rig. It just gives you two negatives you have
to
> deal with:
>
> 1. Low audio drive to the mic amplifier (and hence low
modulation).
> 2. Lousy sounding audio (it's usually pretty thin sounding).
>
> Ellen - AF9J
>
> P.S. - my mic from Ken's Electronics arrived today. I'm still
kind
> of burned out from having a cold or flu for the past week. I'll
try
> to work on the TS-820 tonight, but I can tell I'm starting to
fade. I
> have a feeling, I'm going to have another marathon sleep session
> tonight. Well, suuper is ready.
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@>
> wrote:
> >

> > Is there any other problems from having this switch in the wrong
> position or using a mic
> > with the wrong impedence? Is there any possibility of damage to
> your rig or mic?
> >
> > Tnx
> >
> > Chris VK2ICJ
> >
> >
> >
> >
> >
> > If you don't
> > > decently match impedance, not only will you have low audio
input,
> but
> > > you audio usually sounds lousy (as in pretty tinny).
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> >
>

7262. TS-520 Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-14 23:44:35 UTC
From: The Bandit
Topic: 7262 Message: 7262

I have a DG-5 that works fine, except with my TS-520S. Works on other TS-520S's. I'm told that my rig isn't putting a high enough CAR signal out to drive the DG-5. Does anyone know how to increase the output on the CAR jack?

Thanks!

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

7263. Re: [TS-520_820_530_830] Re: Desk Mics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-15 01:12:03 UTC
From: Ed Berbari
Topic: 7122 Message: 7263

Walt,

I tried to join the kenwoodmics group as you suggested but was turned down for membership. Any special requirements?

Ed, W9EJB
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, April 14, 2006 9:39 AM
Subject: Re: [TS-520_820_530_830] Re: Desk Mics

The impedance of a microphone is not very important. When there is an impedance mismatch, the level will be reduced.

If a low impedance microphone is fed into a high impedance input, the level will be lower than a high impedance microphone because the output voltage will be lower. If there is enough system gain to overcome this, there are some advantages to under-loading, that is loading a microphone with higher than it's output impedance. One of these advantages is that the frequency response will flatten out. intentional under-loading is often done in commercial work.

When a high impedance microphone is terminated by a low impedance it's frequency response will be limited. It will sound low middy or middy, sometimes thin. This is because some of the voltages will be swamped at certain frequencies.

The Astatic d-104 is a very very high impedance element. It sounds middy at 50 k ohms impedance and even worse at 500 ohms. The G8 stand has an amplifier that loads this element at one meg ohm and has an amplifier output impedance that is low. However it has plenty of soup to work well with a 50 k ohm input such as the Yaesu FT-101 or Kenwood TS-520 etc.

The problem with this is that the Astatic amplifier is still not high enough impedance load on the D-104 element even at 500 k ohms to 1 meg ohms so the element sounds too peaky in the mids.

If the amplifier is modified to a one FET amplifier, it will smooth out and sound very good with most rigs. It will sound good with the Kenwood Hybrids such as the TS-520-820-530-830 and the Yaesu FT-101 series and many others.

for more information on this go to http://n9wb.org/

If you want a hand mike Heil sound makes a Handi mike that he can put a HC-5 element into for you. Or you can fit the HC-5 into a existing mike. It will sound good.

Bill K0ZL established a Yahoo Group called KenwoodMics for discussing mikes for Kenwoods. Please join, and we can continue this discussion there.

http://groups.yahoo.com/group/KenwoodMics/

Vy 73, Walt N9WB

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7264. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-15 01:57:34 UTC
From: Ellen R
Topic: 7183 Message: 7264

Here's the URL of the webpage that sells the mic I bought from Ken's Electronics: http://www.kenselectronics.com/lists/mics.htm

You can find it's description 1/3 of the way down the page. Here's how they describe it:

MIC-TS520 Custom 50K ohm Dynamic hand mic TS520S & TS820S, CBC4 plug $28.98

As you can see, it's listyed as being for the TS-520S & 820S. Mine arrived a week ago from Friday. It was wired with both the plug, and the cable (although I wish the cable was a little longer). I've only used it once (this last Wednesday, when I was giving the 820 a shakedown QSO on 4om CW & SSB, to make sure it was working OK, after I repaired it last Sunday), and I got a decent audio report with it.

The guy from the SKCC group who referred me to Ken's (Bob Baxter, AA7EQ), says that his works great with his rig. I'll try to get in some more SSB time with the rig, so I can provide some more data on the mic's performance.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003" <p_chap@...> wrote:
>
> Ellen:
>
> Which mic model # did you buy from Ken's and was it equipped with
> the cable and plug. Let us know what kind of reports you get with it
> as well.
>
> Thanks
> Wa4NUN
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Chris,
> >
> > Unless you really have an extreme case of audio distortion
> > (distortion is always hard on components - take this from a metal
> > head guitarist, who has played distorted guitar in rock bands)
> from

> > having to crank the mic gain to the max , and then shout into the
> mic
> > to get enough modulation (a pretty rare set of conditions), it
> really
> > shouldn't hurt the rig. It just gives you two negatives you have
> to
> > deal with:
> >
> > 1. Low audio drive to the mic amplifier (and hence low
> modulation).
> > 2. Lousy sounding audio (it's usually pretty thin sounding).
> >
> > Ellen - AF9J
> >
> > P.S. - my mic from Ken's Electronics arrived today. I'm still
> kind
> > of burned out from having a cold or flu for the past week. I'll
> try
> > to work on the TS-820 tonight, but I can tell I'm starting to
> fade. I
> > have a feeling, I'm going to have another marathon sleep session
> > tonight. Well, suuper is ready.
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "vk2icj" <vk2icj@>
> > wrote:
> > >
> > > Is there any other problems from having this switch in the
wrong
> > position or using a mic
> > > with the wrong impedence? Is there any possibility of damage
to
> > your rig or mic?
> > >
> > > Tnx
> > >
> > > Chris VK2ICJ
> > >
> > >
> > >
> > >
> > >
> > > If you don't
> > > > decently match impedance, not only will you have low audio
> input,
> > but
> > > > you audio usually sounds lousy (as in pretty tinny).
> > > >
> > > > 73,

> > > > Ellen - AF9J
> > > >
> > >
> >
>

7265. Re: TS 830 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 18:17:57 UTC
From: budgiebob2005
Topic: 7227 Message: 7265

16/04 Walt Iam stuck and going round in circles . As you are possiably aware the Drive control [been the outer knob] is in fact the front set off tags on a 4 bank unit and it is impossiable to get to the contacts due to the front angle on the cover . Unfortunatly due to poor copies off circuits I am unable to actually find the drive control shown on circuit so that I can actually check its input/out . I can with key s/c on CW just see output and carrier pot at top JUST alters this so I am concluding that pot is ok but unsure where to start now as again the voltages marked on cct are not clear Do you think it may be that the filter selector diodes may be a problem .I should add that the M ie AM model has AM And SSB hf filters as standard plus the 450 kc/s filters . CW 4 link is selected but tried all no differance . Sorry to be a problem would value any advice Thanks BOB G8ACQ NB it appears the IF board has differant part code for M series ?
filters.

--- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005" <budgiebob@...> wrote:
>
> Walt I can confirm that i had already done and have redone the
> key test and whilst i can hear the audio tone in LS there is no
> drive ie no change in IA confirm drive control at MAX.this is
> in full CW ie not tune .Both LSB /USB/and AM are good To recap
> I get no output in TUNE or CW Is there anything common in the
> drive cct. I ballanced standing current in usb lsb by setting DIP
> adjustment pot on IF board This is now stable as set at 60ma.
> Thanks for your input and time BOB
>
G8ACQ
>

> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@> wrote:
> >
> > The next thing is to be SURE that the carrier control is fully up.
> This is
> > behind the Mike gain control.
> >
> > Next, if a key is installed in the CW jack it must be closed to
> get output

> > on tune and CW.
> >
> > After checking the above, please note that there is a set of
> contacts in the
> > CW jack that closes when no plug is inserted into the CW Jack.
Get
> a mono
> > phone plug to fit the CW jack. short the tip and ring contacts.
> Plug it into
> > the CW jack. Do you get any carrier now ?
> >
> > I am not very familiar with the 830 (M) version. Does it have
AM ?
> If so, do
> > you get any carrier output on AM ?
> >
> > Vy 73, Walt N9WB
> >
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, April 12, 2006 12:51 PM
> > Subject: [TS-520_820_530_830] Re: TS 830 m
> >
> >
> > > --Walt I can confirm that screen voltage is correct and
> reduces to
> > > 130volts on tune . I had originally to replace the r in btm
end
> off
> > > divider as screen volts were high on both settings . Today
> > > investigating further i find that c w acts just the same as
tune
> > > other than screen volts rise but standing current very low
> athough
> > > set at 60ma on
> > > ssb
> > > So when i key on cw i get no output yet ssb shows
60ma
> > > standing current and talks up to 100 watts It looks as if i
> have a
> > > fault common to tune and cw.? I repeat from my first post
> that
> > > peak only works on receive and does not affect alc display
> reading
> > > which is three quarter scale does this ring any bells thanks
> for
> > > repland any further ideas BOB
> > > G8ACQ

> >
>
>
> -
> > > In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > wrote:
> > > >
> > > > Have you measured the screen grid voltage while on tune? A
> failure
> > > of R 15
> > > > on the rectifier board usually causes the Tune position not
to
> > > work, but
> > > > when this happens, you have no screen voltage in Tune.
> > > >
> > > > Vy 73, Walt N9WB
> > > >
> > > > ----- Original Message -----
> > > > From: "budgiebob2005" <budgiebob@>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Tuesday, April 11, 2006 4:54 PM
> > > > Subject: [TS-520_820_530_830] TS 830 m
> > > >
> > > >
> > > > > I am restoring this transeiver and would like help on the
> > > following
> > > > > To confirm i have fitted new 6146 and replaced the
> > > cathode /screen and
> > > > > screen divider resistors for tune position. All now ok
> 100watt
> > > out .
> > > > > However the Tuneposition is not working correctly .
following
> > > > > instructions the IA is set at 60ma on ssb but when
returning
> to
> > > tune
> > > > > thereis virtualy zero current . consequently i am unable
to
> DIP
> > > on
> > > > > this safe setting .the screen voltage is halved on tune as
> > > > > measured.Consequently i tuned on max power quickly!
> > > > >
> > > > > ALC Following the instruction manual on tune the drive
does
> not
> > > peak
> > > > > the ALC reading Nb I am able by readjustment off bias
pot

> to
> > > have
> > > > > reading on tune but on returning to ssb stannding current
is
> > > 150ma.
> > > > > all voltoges appear ok
> > > > >
> > > > > The Notch knob control is seized it will not move is this
a
> > > dual pot?
> > > > >
> > > > > The display is now working on all bands after clearing a
bad
> > > pin/skt
> > > > > on pcb . But one segment is out on all figures so 0
looks 9
> > > any
> > > > > thoughts on this one Views and ideas Please BOB G8ACQ
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > Yahoo! Groups Links
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >

> >
>

7266. First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 19:33:36 UTC
From: Sherrill D. Colford Jr
Topic: 7266 Message: 7266

Hello I'm looking to pick up an hf rig for my anticipated upgrade to general. I've fount the following rigs for sale in my area a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for $300. I'm trying to decide which rig is the best one for my needs. Does anyone have any experience with these rigs.

Thank-you

KB1ESE

7267. Re: [TS-520_820_530_830] First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 20:03:07 UTC
From: Jon, M1CBH
Topic: 7266 Message: 7267

Sherrill D. Colford Jr wrote:
> Hello I'm looking to pick up an hf rig for my anticipated
> upgrade to general. I've fount the following rigs for sale in my area
> a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for
> $300. I'm trying to decide which rig is the best one for my needs. Does
> anyone have any experience with these rigs.
>
> Thank-you
>
> KB1ESE
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
The TS-830 is a great starting point on HF, don't be put of by the
"valve thing", I'd never used a valve radio but found it easy to pick up
tune up procedure etc, and I can honesty say I enjoy operating it more
that my other HF radio(an ICOM IC-706IIG).

Jon, M1CBH

7268. Re: [TS-520_820_530_830] First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 20:34:07 UTC
From: Norm Fusaro, W3IZ
Topic: 7266 Message: 7268

Hi Sherrill.

Although this is the TS-830 reflector, I wouldn't recommend a TS-830 or anyother rig that is 25 years old as a first rig. Just read the post on this reflector and you'll see about resistors out of tolerance, relays that stick and basically a group of folks that get pleasure from keeping old classics on the road.

The IC-751 was plagued with problems. So many problems that after fixing the design issues Icom renamed the unit IC-751A.

The 751A is an excellent rig. I had one for many years. Dual VFO's, quadruple stage IF, and many more features that made it an excellent DXpedition radio as well as a super contest radio.

Again the rig is about 20 years old and stuff like displays and other componenets are not readily available but I would go that route.

Again, if your Icom is the 751A then go for it. It it is a 751 then run away. I don't care what the seller says. Run away from it.

As a first radio I would really recommend a solid state no tune type transceiver. Something with a built in antenna tuner is a plus. But a modern rig will get you used to operating in with today's technology. You'll have dual VFOs memories and other creature comforts that make life easier.

Do look at receiver performance. This is very important.

You said these were your choices. I assume that you are buying locally. Good idea but it limits your choices. If you belong to a club seek the advice of an experienced ham. Someone that could go with you to check out a rig.

Good luck on the upgrade.

73,
Norm, W3IZ

----- Original Message -----
From: "Sherrill D. Colford Jr" <spudcol@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 16, 2006 3:33 PM
Subject: [TS-520_820_530_830] First HF Rig

> Hello I'm looking to pick up an hf rig for my anticipated
> upgrade to general. I've fount the following rigs for sale in my area
> a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for

> $300. I'm trying to decide which rig is the best one for my needs. Does
> anyone have any experience with these rigs.
>
> Thank-you
>
> KB1ESE
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

7269. RE: [TS-520_820_530_830] First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 19:36:54 UTC
From: Walter Milton
Topic: 7266 Message: 7269

The best rig is the TS-830. I love Mine .

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Sherrill D.
Colford Jr
Sent: Sunday, April 16, 2006 3:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] First HF Rig

Hello I'm looking to pick up an hf rig for my anticipated
upgrade to general. I've fount the following rigs for sale in my area
a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for
$300. I'm trying to decide which rig is the best one for my needs. Does
anyone have any experience with these rigs.

Thank-you

KB1ESE

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

7270. Re: [TS-520_820_530_830] First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 21:34:43 UTC
From: Kay Groß
Topic: 7266 Message: 7270

Hello Sherrill,

from the point of view , what is the
best rig depending on what you have to pay for it,
I would say the TS830.
It is my first choice, if I do compare rigs around the
time from 1982 to 1986.
But it is a rig with tubes in the amplifier, so it is not so easy to handle
for a newcomer.
The IC 751A is a good rig ,as Norm mentioned, forget the TS520. But as he
said it must be the 751A not the 751.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

7271. Re: First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 22:02:50 UTC
From: Graham
Topic: 7266 Message: 7271

--- In TS-520_820_530_830@yahoogroups.com, Kay Groß <kaygross@...> wrote:

forget the TS520.

Why ?
Just because it has Analogue readout ?
Because it has no WARC Bands ?

Be Fair please. It's a darn good 'starter' rig. My 530-SP is still here, bought secondhand [*] in December 1997.I have had the covers off twice to blow dust out. Same Finals & Driver - Still giving a good 100 watts on all bands. Still getting good reports using a 444 Desk Mic.

OK I use my 530S more these days - That I have only had four years and blown the dust out of once. OK Power is starting to 'drop' on 15 & 10 but the new Valves [not Chinese] are in the drawer.

For a cheap and cheerful rig that, looked after and nursed a bit [ie: RTFM for tuning up] You're not going to get much better, than a '5' or '8' series.

Buy a decent Dummy Load, learn how to drive it, and get hours of pleasure.

[*] Probably third or fourth hand <smile>

73 Graham

7272. Re: First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 22:07:38 UTC
From: Ellen R
Topic: 7266 Message: 7272

Hi Sherril,

I've used both the TS520S, and the TS-830S, when I was a General in college , in the 80s. Both were fine rigs. I also have at the present time, a TS-820 (which I absoloutly love).

The 520, and the 830 are still fine rigs. Don't get put off by them having tubes (tuning them up becomes second nature in a very short amount of time). BUT, realize that they may not ahve some of the things that modern rigs do have. The TS-520 is only 80-10m, whereas the TS-520S has 160m. Neither of these two rigs will have the WARC bands. Both use dial readouts instead of digital readouts (no big deal in my opinion, but some people don't care for dial readouts at all). The TS-830S does have a digital readout, and there was an external digital readout available for the TS-520 series (you'll have to do some looking for this). While there were narrow filters available for the TS-520 and TS-830S, yours may not have them in it, which means you may have to do a little searching for filters (if you want them). Both of these rigs use High impedance mics, unlike todays rigs. Like the filters I mentioned above, you may have to do a little looking for a mic, or order one from a palce like Ken's Electronics. Also, don't forget that the TS-520 & Ts-830S are possibly 20-25 years old, which means that they may need some servicing. Also, while the 6146B finals the TS-5200 & TS-830S use are not as expensive as the 6JS6C tubes used in the Yaesu FT-101 series, they can still be pricey (as much as 80-90 dollars for a set).

OK, enough of the bad points. Here are some good points to consider: 1.) If you take care of the finals, they can easily last you a good 20 years; 2.) Because they are tube rigs, they have great transmit audio on SSB; 3.) You will notice that the receivier is pretty quiet, compared to some of today's rigs (not as much white noise) 4.) The TS-520 & TS-830S are much more forgiving of antenna mismatches/high SWR, than solid state rigs (you can even use the Load control to help better match up the radio to the antenna), 5.) If you ever have a problem with these radios, they are much easier to work on than today's radios. In many cases, you can do the work yourself (I fixed my TS-820, when I had problems with it recently).

So, the TS-520 and TS-830S have both good and bad points to them. Spend some time, thinking about these issues before you go out, and buy that TS-520, or TS-830S you've been thinking about. OK? If you can live with their limitations, you'll love these radios, and have a blast using them. If you can't live with the limitations they have, you'll wind up hating them. Don't base your decision purely on the price tag. After you buy a radio, you have to live with it.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Sherrill D. Colford Jr"
<spudcol@...> wrote:
>
> Hello I'm looking to pick up an hf rig for my anticipated
> upgrade to general. I've fount the following rigs for sale in my
area
> a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for
> $300. I'm trying to decide which rig is the best one for my needs.
Does
> anyone have any experience with these rigs.
>
> Thank-you
>
> KB1ESE
>

7273. Re: [TS-520_820_530_830] Re: First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 22:17:03 UTC
From: w3iz
Topic: 7266 Message: 7273

These rigs were new back then.

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 16, 2006 6:07 PM
Subject: [TS-520_820_530_830] Re: First HF Rig

> I've used both the TS520S, and the TS-830S, when I was a General in
> college , in the 80s. Both were fine rigs. I also have at the present
> time, a TS-820 (which I absoloutly love).

7274. Re: [TS-520_820_530_830] Re: First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-16 22:44:12 UTC
From: Kay Groß
Topic: 7266 Message: 7274

----- Original Message -----
From: "Graham" <graham@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 17, 2006 12:02 AM
Subject: [TS-520_820_530_830] Re: First HF Rig

--- In TS-520_820_530_830@yahoogroups.com, Kay Gro? <kaygross@...> wrote:

forget the TS520.

Why ?
Just because it has Analogue readout ?

No but it is a double superheterodyne and a low noise
pll and the most important thing, the first mixer double balanced and is
able to work with strong signals.
And there is a very good accessory out there, a second vfo with 20 Hz steps
(of course after modified).
Yes and you are able to work on the WARC bands.
But if you could get a TS520 for 225 dollars or a TS 830 for 300 dollars
what is the better choice.?
I think , the TS 830 is.
By the way in 1983 I got my general license and my first rig was a TS 830,
and nowadays 23 years ago
I do have two of them,hi.

73 Kay DL5OAQ

www.pbase.com/dl5oaq

7275. Looking for a TS-520SE instruction manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 08:46:33 UTC
From: Daniel
Topic: 7011 Message: 7275

Hi Folks

I'm looking and searching the web for my TS-520 SE instruction manual (NOT the service manual). But I can't find the SE-instruction manual. It is a little bit different then the TS-520S
instruction manual.

So, is there anybody who has the TS-520 SE instruction manual (NOT the service manual) as a PDF file or knows where I can find it.

It would be very nive when.....

Daniel, HB9DDS

7276. Re: [TS-520_820_530_830] First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 09:57:10 UTC
From: Walt Breining
Topic: 7266 Message: 7276

If the TS-830 is functioning correctly, it is one of the finest rigs ever made.
Vy 73, Walt N9WB

----- Original Message -----
From: "Sherrill D. Colford Jr" <spudcol@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 16, 2006 2:33 PM
Subject: [TS-520_820_530_830] First HF Rig

> Hello I'm looking to pick up an hf rig for my anticipated
> upgrade to general. I've fount the following rigs for sale in my area
> a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for
> $300. I'm trying to decide which rig is the best one for my needs. Does
> anyone have any experience with these rigs.
>
> Thank-you
>
> KB1ESE
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7277. Before I Send It Out (My TS830S)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 18:02:01 UTC
From: Ruben Echevarria
Topic: 7277 Message: 7277

Hello Group Ruben KA2HHB here:
I just wanted to ask the group for a bit of help. I can't get any "PLATE" current on my rig. I thought that maybe it needed finals and driver so I changed them. Still nothing. Have receive but zero power output. Every now and then I'll get uncontollable rise in "IP" and then zero, nothing. After trying several different sets of finals and drivers I'm about to pack it up and send it out. Anyway the question is, any ideas or thoughts on what the problem could be? BTW I also cleaned the relay.
Also anone the the difference between the Gold Face and Non-Gold Face TS830S?
Mine is Gold ..... Thanks in advance ....

[Non-text portions of this message have been removed]

7278. Wanted to buy TS-530S with accessories

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 18:11:45 UTC
From: Daniel
Topic: 7278 Message: 7278

Hi Folks

Wanted to buy TS-530S with accessories (VFO-230, SP-230, MC-50, etc). All has to be in good/very good collector quality. perhaps there is anybody ou there who is willing to sell his
Line. Please let me with all infos and fotos.

Daniel, HB9DDS

7279. Re: Before I Send It Out (My TS830S)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 18:21:25 UTC
From: Daniel
Topic: 7277 Message: 7279

Hi Ruben

- Do you set the SG-switch to ON (Rear of the TS-830)
- What says your plate current?

"... Also anone the the difference between the Gold Face and Non-Gold Face TS830S? Mine is Gold.."

Intersting question. In my opinion the label " Kenwood TS-830S" in front, below the VFO knob is ALWAYS golden!!!

Daniel, HB9DDS

7280. Re: [TS-520_820_530_830] First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 19:00:33 UTC
From: KD5SFA
Topic: 7266 Message: 7280

Sorry about my late reply...life has been crazy lately.

I had a 520s....my first HF rig. Really nice to start with.
The 830s will give you the WARC bands too. If the 520 you
are looking at is not the 's' model you will not have 160m
if I recall. I would spend the extra $75 for the 830s and get
many more bells and whistles and tools to work around any
qrm. My first HF qso was to a special event station on a friends
830s...the way he was able to shift the filters and IF to get past the
other noise was really slick. The 520s I got in a trade around then
was not able to do that. Don't get me wrong, it's a good solid
rig and a great spare. The 830s just gives you more bands and
options to work with.

73,
Jon
KD5SFA

-----Original Message-----
>From: "Sherrill D. Colford Jr" <spudcol@...>
>Sent: Apr 16, 2006 3:33 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] First HF Rig
>
>Hello I'm looking to pick up an hf rig for my anticipated
>upgrade to general. I've fount the following rigs for sale in my area
>a icom 751 for $500, kenwood ts520 for $225 or a kenwood ts830s for
>$300. I'm trying to decide which rig is the best one for my needs. Does
>anyone have any experience with these rigs.
>
>Thank-you
>
>KB1ESE
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>

>

7281. Re: Before I Send It Out (My TS830S)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 19:01:25 UTC
From: budgiebob2005
Topic: 7277 Message: 7281

-Hello Ruben You should check the value off the resistors in series with the cathodes off 6146 PA valves . You can do this on PC side off output panel There are either 2 or 4 in parallel and should read 5 ohms . also check the screen resistors they are carbon composition and go high .IF in doubt replace these with carbon film resistors 1 watt DO not fit any higher wattage in cathodes as these are designed to fail safe if you have a p a problem Finally check that on Tune you have aprox 125volts on screen and on ssb you should have around 250 The screen reduction volts are supplied from a divider off 2 resistors and if btm goes o/c you have high volts on tune conversley if top RESISTOR o/c you have no volts on tune. What H T voltage is shown on meter this should be 800 volts plus . If a lot lower suspect a faulty smoothing cap . PLEASE take the most care when checking the high yoltage . and remember to allow to discharge and check it is zero before working on p/a etc . best regards BOB
G8ACQ

-- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi Ruben
>
> - Do you set the SG-switch to ON (Rear of the TS-830)
> - What says your plate current?
>
> "... Also anone the the difference between the Gold Face and Non-Gold Face TS830S?
> Mine is Gold.."
>
> Intersting question. In my opinion the label " Kenwood TS-830S" in front, below the VFO
> knob is ALWAYS golden!!!
>
> Daniel, HB9DDS
>

7282. TS 530SP keyer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 20:57:32 UTC
From: Nigel
Topic: 7282 Message: 7282

Hi i think this has been covered before but cant find it. I have a TS530SP and would like to use a keyer with it so i can progress on from a straight key to a set of paddles. Are there any keyers still in production that can be directly connected to the TS530SP and work. Sorry for asking the question again all the best from Nigel m0dbo

7283. Re: [TS-520_820_530_830] TS 530SP keyer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-17 21:27:10 UTC
From: Bob Baxter
Topic: 7282 Message: 7283

There is an easy built kit called the "Keyall", from Jackson Harbor
Press at http://home.att.net/~jacksonharbor/keyall.htm that will
let you use any keyer to key your rig.

Bob Baxter aa7eq

On 4/17/06, Nigel <nigel@head5710.fsnet.co.uk> wrote:
> Hi i think this has been covered before but cant find it. I have a
> TS530SP and would like to use a keyer with it so i can progress on from
> a straight key to a set of paddles. Are there any keyers still in
> production that can be directly connected to the TS530SP and work.
> Sorry for asking the question again all the best from Nigel m0dbo
>
>
>
>
>
> _____

7284. Re: Desk Mics - another thought

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 00:45:38 UTC
From: Ravenswood
Topic: 7122 Message: 7284

If you need a manual for it:
http://groups.yahoo.com/group/astaticmicrophones

--- In TS-520_820_530_830@yahoogroups.com, "w3iz" <w3iz@...> wrote:
>
> FYI
> I have a D-104 on E-bay right now.
> Item # 9710534267
>
> 73,
> Norm, W3IZ

7285. Heil, Anyone?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 01:30:39 UTC
From: Ken Gunton
Topic: 7285 Message: 7285

Next month is the Dayton Hamvention, and
I assume that Heil with have their usual
booth in the hallway.

I'd like to get a headset/mike combo from
them, but am not sure which one will work
best with my 830S.

Suggestions, anyone? It'll mainly be so
the XYL doesn't have to hear that
*&^% radio!!!!

TIA

Ken, W8ASA

7286. Re: [TS-520_820_530_830] Heil, Anyone?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 01:36:12 UTC
From: w3iz
Topic: 7285 Message: 7286

Talk to Bob Heil and he'll fix you up with something.

73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "Ken Gunton" <ken@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 17, 2006 9:30 PM
Subject: [TS-520_820_530_830] Heil, Anyone?

> Next month is the Dayton Hamvention, and
> I assume that Heil with have their usual
> booth in the hallway.
>
> I'd like to get a headset/mike combo from
> them, but am not sure which one will work
> best with my 830S.
>
> Suggestions, anyone? It'll mainly be so
> the XYL doesn't have to hear that
> *&^% radio!!!!
>
> TIA
>
> Ken, W8ASA
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7287. Pick-off IF Signal From TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 02:51:43 UTC
From: n3hkn
Topic: 7287 Message: 7287

I want to pick-off the IF (after the VFO) signal from a TS-520S. My intention is to use a SoftRock SDR at this point. I tried to connect the antenna input of the SDR to the point where the signal goes into the SSB xtal filter. From my reading of the schematic there should be a wide-band (wider than 2.5khz) fixed frequency at this point. It appears to be at a frequency of 3395khz. However, I see no signal on the SDR when tuned to this frequency using a PicEl/DDS-60 VFO in to the SDR. This is probably due to the bandpass filter of the SDR which is at 7mhz(40 meters). I will try bypassing the filter to see what happens.

My question is - is the input to the xtal filter at 3395khz? Is this a good point to pick off a signal?

Dick N3HKN

7288. Re: TS 530SP keyer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 06:40:37 UTC
From: Nigel
Topic: 7282 Message: 7288

Thankyou Bob i will take a look From Nigel M0dbo
--- In TS-520_820_530_830@yahoogroups.com, "Bob Baxter" <aa7eq.ham@...>
wrote:
>
> There is an easy built kit called the "Keyall", from Jackson Harbor
> Press at http://home.att.net/~jacksonharbor/keyall.htm that will
> let you use any keyer to key your rig.
>
> Bob Baxter aa7eq
>
>
> >
> >
> >
> >
> >
> > _____
>

7289. RE: [TS-520_820_530_830] TS 530SP keyer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 13:32:08 UTC
From: Hauser, Ron M.
Topic: 7282 Message: 7289

Another recommendation for you to look at: I built a picokeyer from www.hamgadgets.com N0XAS. It was really easy to put together, and this is coming from someone who hadn't soldered anything other than coax connectors. I have the 50k pot for speed variation, and I really like this unit, it works fine.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Nigel
Sent: Monday, April 17, 2006 3:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS 530SP keyer

Hi i think this has been covered before but cant find it. I have a TS530SP and would like to use a keyer with it so i can progress on from a straight key to a set of paddles. Are there any keyers still in production that can be directly connected to the TS530SP and work. Sorry for asking the question again all the best from Nigel m0dbo

Yahoo! Groups Links

7290. Re: First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 17:50:52 UTC
From: digs4ruff
Topic: 7266 Message: 7290

--- In TS-520_820_530_830@yahoogroups.com, "Graham" <graham@...> wrote:
>
> Buy a decent Dummy Load, learn how to drive it, and get hours of
pleasure.
>
Newbie question

Can you please advise the benefits of a dummy load. I always thought
the the tuning process was more accurately accomplished tuning into a
reactive antenna rather than a purely resistive dummy load.
thanks
Barry

7291. TS-830s unstable bias

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 18:07:24 UTC
From: jovem_cao
Topic: 7291 Message: 7291

Greetings!

On my usual bias check to see if it was on 60ma I noticed the needle
is irregular. It is not completely stable when I put meter on IP, mode
LSB or USB and tune on.
Is this something to be worried about? It floats just a very little
bit, but never saw that on my previous TS-520se.

Thanks and best 73!

Sergio CT2IWG

7292. Re: [TS-520_820_530_830] Re: First HF Rig

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 18:49:05 UTC
From: Norm Fusaro
Topic: 7266 Message: 7292

By first tuning into a DL you will get the rig "in the neighborhood" without a lot of stress on the rig. Then switch to the antenna and fine tune.

73, Norm -- W3IZ

digs4ruff <digs4ruff@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "Graham" wrote:
>
> Buy a decent Dummy Load, learn how to drive it, and get hours of pleasure.
>
Newbie question

Can you please advise the benefits of a dummy load. I always thought the the tuning process was more accurately accomplished tuning into a reactive antenna rather than a purely resistive dummy load.
thanks
Barry

Yahoo! Groups Links

[Non-text portions of this message have been removed]

7293. RE: [TS-520_820_530_830] TS 530SP keyer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 19:55:48 UTC
From: nigel@head5710.fsnet.co.uk
Topic: 7282 Message: 7293

Thanks for that Ron i will take a look.

> Message Received: Apr 18 2006, 02:32 PM
> From: "Hauser, Ron M."
> To: TS-520_820_530_830@yahoogroups.com
> Cc:
> Subject: RE: [TS-520_820_530_830] TS 530SP keyer
>
> Another recommendation for you to look at: I built a picokeyer from
> www.hamgadgets.com N0XAS. It was really easy to put together, and this
> is coming from someone who hadn't soldered anything other than coax
> connectors. I have the 50k pot for speed variation, and I really like
> this unit, it works fine.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Nigel
> Sent: Monday, April 17, 2006 3:58 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS 530SP keyer
>
> Hi i think this has been covered before but cant find it. I have a
> TS530SP and would like to use a keyer with it so i can progress on from
> a straight key to a set of paddles. Are there any keyers still in
> production that can be directly connected to the TS530SP and work.
> Sorry for asking the question again all the best from Nigel m0dbo
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

YAHOO! GROUPS LINKS
>
Visit your group "TS-520_820_530_830" on the web.
>
To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

>

Nigel M0dbo G-QRP 6855, ISWL G-20305,QRP ARCI 12085, Fists 8370

[Non-text portions of this message have been removed]

7294. TS-530SP 7 Pin Din Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-18 23:52:36 UTC
From: Bill Richarz
Topic: 7294 Message: 7294

Ayone know where I can get a 7 Pin Din plug for the
TS-530SP accessory jack?

Tnx, de Bill, N4DH

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7295. 7-PIN DINS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 00:49:17 UTC
From: Paul
Topic: 7295 Message: 7295

GET THEM AT ALLIED ELECTRONICS,CAN ORDER ON LINE
DE-K8PG-PAUL

7296. Tube choices for finals - I need to replace mine

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 03:51:55 UTC
From: Ellen R
Topic: 7296 Message: 7296

Hi everybody,

As you know, I got my TS-820 going. BUT, the Phillips finals are on their last legs (I can get maybe 40-45W out of them [into a dummy load], and yes, I get plenty of drive from the 12BY7A). I'm NOT about to put those piece of junk chinese finals back in my baby, especially since they flashed over the last time I did it (no thanks to the dirty/hard vacuum in them). I'm getting a nice bonus from work on Thursday, so I think I'll use some of it to buy some new finals.

OK experts, I have a question or two. I assume that I'm going to have to use NOS (I don't even know of there are any Russian or eastern european 6146Bs on the market, much less, how good they are). What brand should I use? Should I go out and spend extra money for the Sylvanias, RF Parts insists we should use in our Kenwood hybrids, or are there others that work just as well (or even better), that cost less money? Also, on a lazy note - will I have a good chance of not having to neutralize my rig for the new finals?

73,
Ellen - AF9J

7297. Re: [TS-520_820_530_830] Tube choices for finals - I need to replace mine

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 04:07:01 UTC
From: w3iz
Topic: 7296 Message: 7297

You'll still have to neutralize the rig. This process removes unwanted feedthrough capacitance and prevents VHF parasitic oscillation.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, April 18, 2006 11:51 PM
Subject: [TS-520_820_530_830] Tube choices for finals - I need to replace mine

> Hi everybody,
>
> As you know, I got my TS-820 going. BUT, the Phillips finals are on
> their last legs (I can get maybe 40-45W out of them [into a dummy
> load], and yes, I get plenty of drive from the 12BY7A). I'm NOT
> about to put those piece of junk chinese finals back in my baby,
> especially since they flashed over the last time I did it (no thanks
> to the dirty/hard vacuum in them). I'm getting a nice bonus from work
> on Thursday, so I think I'll use some of it to buy some new finals.
>
> OK experts, I have a question or two. I assume that I'm going to
> have to use NOS (I don't even know of there are any Russian or
> eastern european 6146Bs on the market, much less, how good they
> are). What brand should I use? Should I go out and spend extra
> money for the Sylvanias, RF Parts insists we should use in our
> Kenwood hybrids, or are there others that work just as well (or even
> better), that cost less money? Also, on a lazy note - will I have a
> good chance of not having to neutralize my rig for the new finals?
>
> 73,
> Ellen - AF9J
>
>
>
>
>
>
> Yahoo! Groups Links
>
>

>
>
>
>

7298. Re: [TS-520_820_530_830] Tube choices for finals - I need to replace mine

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 04:13:52 UTC
From: OneG @ The Taj Mahal
Topic: 7296 Message: 7298

w3iz wrote:
> You'll still have to neutralize the rig. This process removes unwanted
> feedthrough capacitance and prevents VHF parasitic oscillation.
> 73,
> Norm, W3IZ
Ok SO I am curious how does 1 accomplish this??

K7GNO

7299. Re: [TS-520_820_530_830] Tube choices for finals - I need to replace mine

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 04:32:29 UTC
From: w3iz
Topic: 7296 Message: 7299

Refer to the manual.
Be careful as you will be in the HIGH VOLTAGE section of the radio.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "OneG @ The Taj Mahal" <v12man@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 12:13 AM
Subject: Re: [TS-520_820_530_830] Tube choices for finals - I need to replace mine

> w3iz wrote:
>> You'll still have to neutralize the rig. This process removes unwanted
>> feedthrough capacitance and prevents VHF parasitic oscillation.
>> 73,
>> Norm, W3IZ
> Ok SO I am curious how does 1 accomplish this??
>
> K7GNO
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7300. 830S Mode Swith Cleanable ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 14:50:54 UTC
From: compdsgnr
Topic: 7300 Message: 7300

The mode switch on my 830S is getting noisy. Is it possible to disassemble the wafers and use contact cleaner on them ?

Tnx

Tom / W1PKX

7301. Re: Watch Dual Impedance MC-50 on Hybrids - TS520/820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 17:17:56 UTC
From: pchapman9202003
Topic: 7183 Message: 7301

Thanks for the reply Ellen. I have had good experience there so far, although just a couple small purchases. I will follow up on your info. Let us know how it goes down the road. When you put proprietary plug with a cable and a mic into play....that be cheap.

You can always buy a good high end audio cable if you want to extend from Heil. The last batch I bought was very limp and easy to deal with at about a buck a foot. In other words...nor rigid or twisty. It was nice.

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Here's the URL of the webpage that sells the mic I bought from Ken's
> Electronics: http://www.kenselectronics.com/lists/mics.htm
>
> You can find it's description 1/3 of the way down the page. Here's
> how they describe it:
>
> MIC-TS520 Custom 50K ohm Dynamic hand mic TS520S & TS820S, CBC4 plug
> $28.98
>
> As you can see, it's listyed as being for the TS-520S & 820S. Mine
> arrived a week ago from Friday. It was wired with both the plug, and
> the cable (although I wish the cable was a little longer). I've only
> used it once (this last Wednesday, when I was giving the 820 a
> shakedown QSO on 4om CW & SSB, to make sure it was working OK, after
> I repaired it last Sunday), and I got a decent audio report with it.
>
> The guy from the SKCC group who referred me to Ken's (Bob Baxter,
> AA7EQ), says that his works great with his rig. I'll try to get in
> some more SSB time with the rig, so I can provide some more data on
> the mic's performance.
>
> 73,

> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
> <p_chap@> wrote:
> >
> > Ellen:
> >
> > Which mic model # did you buy from Ken's and was it equipped
with
> > the cable and plug. Let us know what kind of reports you get
with
> it
> > as well.
> >
> > Thanks
> > Wa4NUN

7302. TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 17:45:26 UTC
From: alpyke
Topic: 7302 Message: 7302

Hi All:

I'm a new member of this group and a new owner of a TS-830S. I'm having some trouble getting it tuned up, and would really appreciate any advice, help, guidance, suggestions etc.

The problem is as follows:

1) I purchased a TS-830S off ebay. Prior user says it works. Who knows...
2) I've used it in receive only for a week or so, and it works fine.
3) I connected a dummy load (50 ohm) to the output, and tried to tune it up. I've tried at several frequencies, with the same result:
4) Following the procedure in the manual, I set the IP to 60 ma. This works no problem. It was set to 70ma from the prior user, I turned it down slightly with the knob on the back and that works.
5) The next step is to "peak the ALC". Here, when I set up according to the manual, I get nothing on the meter for ALC, and also nothing on the output power meter I have with the dummy load. (I also tried FYI without the external power meter in the circuit, only the dummy load, just in case there was a problem with my power meter. Same result, ALC=0). To check the dummy load, I disconnected the ANT cable from the back of the TS-830, and measured 50 ohms on the end of the cable that plugs into the TS-830. I've also tried adjusting the CAR to both extremes, same result.
6) I can see that the 2 final tubes (6146B's) are each glowing. Also the tube that drives them (can't remember the number off hand) is glowing.
7) I haven't made any measurements, but I can if anybody knows (precisely) what I should measure. I do not have a VTVM, but I do have a DMM, and Analog multi-meter and a scope available.

Thanks for any suggestions.

73 - Adrian, KB1NFW.

7303. Re: [TS-520_820_530_830] TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 18:12:00 UTC
From: Richard Harris
Topic: 7302 Message: 7303

Adrian,

Welcome to the group.

You didn't mention what position the MODE switch was in. I suggest that you start off in the TUNE position. In this position there will be no standing plate current because the screen grid voltage to the PAs is reduced. This protects them against damage from excessively long tune-ups. Select ALC on the meter switch, set the carrier control half way and see if you can peak the reading. You should also be able drive up the plate current, which is another indication, but I wouldn't expect that you would get much more than 100mA. in the TUNE mode.

If you have tried tuning with USB or LSB selected then you would not get any ALC indication or any output, which is much as you have described.

I have a TS-530, which is the down-market version of the 830. In the TUNE mode I get about 12W output. Having peaked the drive and tuned the PA and ATU, I then quickly double check by selecting CW and keying. You should get about 100W. Don't keep the key down for more than a few seconds.

Richard G3OTK

At 17:45 19/04/2006 +0000, you wrote:
>Hi All:
>
>I'm a new member of this group and a new owner of a TS-830S. I'm
>having some trouble getting it tuned up, and would really appreciate
>any advice, help, guidance, suggestions etc.
>
>The problem is as follows:
>
>1) I purchased a TS-830S off ebay. Prior user says it works. Who
>knows...
>2) I've used it in receive only for a week or so, and it works fine.
>3) I connected a dummy load (50 ohm) to the output, and tried to
>tune it up. I've tried at several frequencies, with the same result:
>4) Following the procedure in the manual, I set the IP to 60 ma.
>This works no problem. It was set to 70ma from the prior user, I
>turned it down slightly with the knob on the back and that works.
>5) The next step is to "peak the ALC". Here, when I set up
>according to the manual, I get nothing on the meter for ALC, and
>also nothing on the output power meter I have with the dummy load.
>(I also tried FYI without the external power meter in the circuit,
>only the dummy load, just in case there was a problem with my power
>meter. Same result, ALC=0). To check the dummy load, I

>disconnected the ANT cable from the back of the TS-830, and measured
>50 ohms on the end of the cable that plugs into the TS-830. I've
>also tried adjusting the CAR to both extremes, same result.
>6) I can see that the 2 final tubes (6146B's) are each glowing.
>Also the tube that drives them (can't remember the number off hand)
>is glowing.
>7) I haven't made any measurements, but I can if anybody knows
>(precisely) what I should measure. I do not have a VTVM, but I do
>have a DMM, and Analog multi-meter and a scope available.
>
>Thanks for any suggestions.
>
>73 - Adrian, KB1NFW.
>
>
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7304. Re: [TS-520_820_530_830] TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 18:52:30 UTC
From: joe sloss
Topic: 7302 Message: 7304

Adrian: Be sure the SG switch (below the fan) on the back panel is in the ON position.

Joe k7mks
----- Original Message -----
From: "alpyke" <alpyke@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 10:45 AM
Subject: [TS-520_820_530_830] TS-830 no ALC in Tuning

> Hi All:
>
> I'm a new member of this group and a new owner of a TS-830S. I'm
> having some trouble getting it tuned up, and would really appreciate
> any advice, help, guidance, suggestions etc.
>
> The problem is as follows:
>
> 1) I purchased a TS-830S off ebay. Prior user says it works. Who
> knows...
> 2) I've used it in receive only for a week or so, and it works fine.
> 3) I connected a dummy load (50 ohm) to the output, and tried to
> tune it up. I've tried at several frequencies, with the same result:
> 4) Following the procedure in the manual, I set the IP to 60 ma.
> This works no problem. It was set to 70ma from the prior user, I
> turned it down slightly with the knob on the back and that works.
> 5) The next step is to "peak the ALC". Here, when I set up
> according to the manual, I get nothing on the meter for ALC, and
> also nothing on the output power meter I have with the dummy load.
> (I also tried FYI without the external power meter in the circuit,
> only the dummy load, just in case there was a problem with my power
> meter. Same result, ALC=0). To check the dummy load, I
> disconnected the ANT cable from the back of the TS-830, and measured
> 50 ohms on the end of the cable that plugs into the TS-830. I've
> also tried adjusting the CAR to both extremes, same result.
> 6) I can see that the 2 final tubes (6146B's) are each glowing.
> Also the tube that drives them (can't remember the number off hand)
> is glowing.
> 7) I haven't made any measurements, but I can if anybody knows
> (precisely) what I should measure. I do not have a VTVM, but I do
> have a DMM, and Analog multi-meter and a scope available.
>
> Thanks for any suggestions.
>
> 73 - Adrian, KB1NFW.

>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

7305. Re: [TS-520_820_530_830] TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 21:06:47 UTC
From: Walt Breining
Topic: 7302 Message: 7305

Be sure that the SG switch on the back is on. You will only get a carrier on tune or CW. Carrier control should be fully clockwise..

Vy 73, Walt N9WB

----- Original Message -----
From: "alpyke" <alpyke@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 12:45 PM
Subject: [TS-520_820_530_830] TS-830 no ALC in Tuning

> Hi All:
>
> I'm a new member of this group and a new owner of a TS-830S. I'm
> having some trouble getting it tuned up, and would really appreciate
> any advice, help, guidance, suggestions etc.
>
> The problem is as follows:
>
> 1) I purchased a TS-830S off ebay. Prior user says it works. Who
> knows...
> 2) I've used it in receive only for a week or so, and it works fine.
> 3) I connected a dummy load (50 ohm) to the output, and tried to
> tune it up. I've tried at several frequencies, with the same result:
> 4) Following the procedure in the manual, I set the IP to 60 ma.
> This works no problem. It was set to 70ma from the prior user, I
> turned it down slightly with the knob on the back and that works.
> 5) The next step is to "peak the ALC". Here, when I set up
> according to the manual, I get nothing on the meter for ALC, and
> also nothing on the output power meter I have with the dummy load.
> (I also tried FYI without the external power meter in the circuit,
> only the dummy load, just in case there was a problem with my power
> meter. Same result, ALC=0). To check the dummy load, I
> disconnected the ANT cable from the back of the TS-830, and measured
> 50 ohms on the end of the cable that plugs into the TS-830. I've
> also tried adjusting the CAR to both extremes, same result.
> 6) I can see that the 2 final tubes (6146B's) are each glowing.
> Also the tube that drives them (can't remember the number off hand)
> is glowing.
> 7) I haven't made any measurements, but I can if anybody knows
> (precisely) what I should measure. I do not have a VTVM, but I do
> have a DMM, and Analog multi-meter and a scope available.
>
> Thanks for any suggestions.
>
> 73 - Adrian, KB1NFW.

>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7306. Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 20:52:44 UTC
From: Ellen R
Topic: 7302 Message: 7306

Hi Adrian,

More than likely, the suggestions the other hams in the group have made will solve your problem. If you still have no ALC, after checking for the things previously mentioned, you might want to check one other thing - the 12BY7A driver tube. Usually if these are taken care of, they last a long time. But if they're worn out, you can end up with no Drive, and as a result, no ALC. I had this condition exist, on both a TS-520S, and a FT-101B I had bought, in college. In both cases, I was trying them out for the first time. I replaced the driver tube in each rig, and they tuned up fine, with plenty of ALC.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "alpyke" <alpyke@...> wrote:
>
> Hi All:
>
> I'm a new member of this group and a new owner of a TS-830S. I'm
> having some trouble getting it tuned up, and would really appreciate
> any advice, help, guidance, suggestions etc.
>
> The problem is as follows:
>
> 1) I purchased a TS-830S off ebay. Prior user says it works. Who
> knows...
> 2) I've used it in receive only for a week or so, and it works fine.
> 3) I connected a dummy load (50 ohm) to the output, and tried to
> tune it up. I've tried at several frequencies, with the same result:
> 4) Following the procedure in the manual, I set the IP to 60 ma.
> This works no problem. It was set to 70ma from the prior user, I
> turned it down slightly with the knob on the back and that works.
> 5) The next step is to "peak the ALC". Here, when I set up
> according to the manual, I get nothing on the meter for ALC, and
> also nothing on the output power meter I have with the dummy load.
> (I also tried FYI without the external power meter in the circuit,
> only the dummy load, just in case there was a problem with my power
> meter. Same result, ALC=0). To check the dummy load, I
> disconnected the ANT cable from the back of the TS-830, and measured
> 50 ohms on the end of the cable that plugs into the TS-830. I've
> also tried adjusting the CAR to both extremes, same result.

> 6) I can see that the 2 final tubes (6146B's) are each glowing.
> Also the tube that drives them (can't remember the number off hand)
> is glowing.
> 7) I haven't made any measurements, but I can if anybody knows
> (precisely) what I should measure. I do not have a VTVM, but I do
> have a DMM, and Analog multi-meter and a scope available.
>
> Thanks for any suggestions.
>
> 73 - Adrian, KB1NFW.
>

7307. Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 21:50:24 UTC
From: ke9zm
Topic: 7307 Message: 7307

I have been on this group for about 2 months. I have read a number of postings that indicated that the radio was bought off of e-bay and it had some problem that was not disclosed by the seller.

Just wondering, for those folks who bought any of the hybrids off of ebay, how many folks got a radio that didn't quite work. That might be some good proactive info for those who are planning a purchase from e-bay

Having read the ebay autions for hybrids for the past 2 months I observed that about 1/3 to 1/2 of the folks offering these radios for sale have no idea of what they have. When they say "100 W out on all bands" it is most likely NOT a measured output but just something the seller copied from some source. The same goes for pretty much the other content of these ebay seller descriptions.

As for me, I bought 2 Hybrids off ebay. The sellers were hams and they knew what they were talking about. The third Hybrid I bought from a ham store. It was checked by a tech and had a 60-day return policy.

I think I paid a premium price for all three radios. But I am also risk averse and prior to purchase I sent e-mail to the sellers asking them very detailed questions about the actual operation of the radio. To the extent they they could answer and the radio was in good working order, I placed by bid.

So that's my e-bay experience buying hybrids - whats yours?

Gary / ke9zm

7308. New to the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 22:02:59 UTC
From: alaskaboy114
Topic: 7308 Message: 7308

Hey there,

AL2N from Anchorage here.

Been looking for a new rig withing my price range and these hybrid's look appealing to me. Something about knobs and tubes seems interesting. I like to use older gear and see how well I can perform with a minimum amount of cash spent.

Hoping to learn a few things to help me in my purchase and maintenance of whatever rig I end up buying.

Been looking at the 520s and 820s as these are within my price range and seem to have great reviews. I mainly work digital modes and cw (been 8 months with no cw practice, ouch!). SSB is fun, but does not seem as challenging as the other modes.

7309. Re: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-19 22:23:11 UTC
From: w3iz
Topic: 7307 Message: 7309

Hi Gary et al.
As one who has bought and sold these kinds of rig on the web, I have to agree that Gary's advice to ask questions and even get a phone number and talk to the seller is a good business practice.

Read the descriptions carefully and don't read anything into them. Assume nothing. If you are not sure or the seller is not sure then stay away. There are plenty of radios out there.

Most folks who get burned in any deal, radio or otherwise burn themselves. They get way ahead of themselves and fall in love with the product or the promise of what the product will do for their ego, personality or status.

Also, as I may have stated before, bargain is not a bargain if it arrives damaged. Specify exactly how you want it packaged and don't be afraid to pay a little extra to have it insured.

Buy and selling on line may be a little different than in person but the basic princple of the deal are the same. Once it is done it's over. You have to ask your questions ahead of time and listen to how the answers are phrased.

Good luck and good bidding.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "ke9zm" <ke9zm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 5:50 PM
Subject: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

>I have been on this group for about 2 months. I have read a number of
> postings that indicated that the radio was bought off of e-bay and it
> had some problem that was not disclosed by the seller.
>
> Just wondering, for those folks who bought any of the hybrids off of
> ebay, how many folks got a radio that didn't quite work. That might
> be some good proactive info for those who are planning a purchase from
> e-bay
>
> Having read the ebay autions for hybrids for the past 2 months I

> observed that about 1/3 to 1/2 of the folks offering these radios for
> sale have no idea of what they have. When they say "100 W out on all
> bands" it is most likely NOT a measured output but just something the
> seller copied from some source. The same goes for pretty much the
> other content of these ebay seller descriptions.
>
> As for me, I bought 2 Hybrids off ebay. The sellers were hams and
> they knew what they were talking about. The third Hybrid I bought
> from a ham store. It was checked by a tech and had a 60-day return
> policy.
>
> I think I paid a premium price for all three radios. But I am also
> risk averse and prior to purchase I sent e-mail to the sellers asking
> them very detailed questions about the actual operation of the radio.
> To the extent they they could answer and the radio was in good working
> order, I placed by bid.
>
> So that's my e-bay experience buying hybrids - whats yours?
>
> Gary / ke9zm
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

7310. Re: [TS-520_820_530_830] 7-PIN DINS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 00:18:22 UTC
From: Bill Richarz
Topic: 7295 Message: 7310

Thanks Paul,

I could not find a 7 pin din plug there. I'm trying
to locate for another person. Do you know if it's a
mini-din plug or regular or the TS-530SP? I saw 5
pin, 6 pin and 8 pin there, but no 7 pin.

Tnx for the help.

73 de Bill, N4DH

--- Paul <k8pg@...> wrote:

> GET THEM AT ALLIED ELECTRONICS,CAN ORDER ON LINE
> DE-K8PG-PAUL
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7311. Another issue raises its ugly head - VFO drift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 02:05:54 UTC
From: Ellen R
Topic: 7311 Message: 7311

Hi everybody,

I need to tap into your expertise again. Late this afternoon, I was getting some use out of my TS-820, on 40m CW, when I received a little suprise during the QSO I was having - a drifting VFO. This wasn't just a 100-200hz, it was at least 2 KHz or so, over the course of a 20 minute QSO. The station I was QSOing with, N1MS, not only commented about it on the air, he even commented about it, in an e-mail he sent me after the QSO was over. The rig he was using was an ICOM IC-756 Pro II, so I doubt very much it was his rig that was drifting. This was only the 3rd time I've used the 820 on the air (I've been either too sick, or too busy for hamming). Could this be related to another problem I'm having? - transmit freq. is slightly off from the receive freq. [the manual says to adjust the 9V supply to fix this problem]). Or, could it be something else like the electrolytic caps in the radio (especially in the VFO) drying out with age (Japanese capacitors of my rig's vintage, are notorious for drying out as they get older)? Thanks for any input you might have in this problem.

73,
Ellen - AF9J

7312. Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 03:31:19 UTC
From: Ellen R
Topic: 7311 Message: 7312

I just got an e-mail, from WD5ABC, who worked me shortly before the QSO mentioned down below. He told me that he noticed the VFO drift too, but that it didn't happen, until we had been QSOing for about 15 minutes or so. So it's possible that thermal/heating up effects on one of the components could be causing the drifting. Any ideas which one people?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi everybody,
>
> I need to tap into your expertise again. Late this afternoon, I was
> getting some use out of my TS-820, on 40m CW, when I received a
> little suprise during the QSO I was having - a drifting VFO. This
> wasn't just a 100-200hz, it was at least 2 KHz or so, over the course
> of a 20 minute QSO. The station I was QSOing with, N1MS, not only
> commented about it on the air, he even commented about it, in an e-
> mail he sent me after the QSO was over. The rig he was using was an
> ICOM IC-756 Pro II, so I doubt very much it was his rig that was
> drifting. This was only the 3rd time I've used the 820 on the air
> (I've been either too sick, or too busy for hamming). Could this be
> related to another problem I'm having? - transmit freq. is slightly
> off from the receive freq. [the manual says to adjust the 9V supply
> to fix this problem]). Or, could it be something else like the
> electrolytic caps in the radio (especially in the VFO) drying out
> with age (Japanese capacitors of my rig's vintage, are notorious for
> drying out as they get older)? Thanks for any input you might have
> in this problem.
>
> 73,
> Ellen - AF9J
>

7313. Re: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 07:12:27 UTC
From: Richard Harris
Topic: 7307 Message: 7313

Hi Gary,

I bought a TS-530SP from a UK ham on e-bay and have been delighted with it. The seller was prepared to drive a total of 100 miles to meet me half way (on the busiest motorway in the UK on a Friday afternoon) so that it did not have to sent by courier.

It was completely functional and I have now been using it for two years.

Richard G3OTK

At 21:50 19/04/2006 +0000, you wrote:
>I have been on this group for about 2 months. I have read a number of
>postings that indicated that the radio was bought off of e-bay and it
>had some problem that was not disclosed by the seller.
>
>Just wondering, for those folks who bought any of the hybrids off of
>ebay, how many folks got a radio that didn't quite work. That might
>be some good proactive info for those who are planning a purchase from
>e-bay
>
>Having read the ebay autions for hybrids for the past 2 months I
>observed that about 1/3 to 1/2 of the folks offering these radios for
>sale have no idea of what they have. When they say "100 W out on all
>bands" it is most likely NOT a measured output but just something the
>seller copied from some source. The same goes for pretty much the
>other content of these ebay seller descriptions.
>
>As for me, I bought 2 Hybrids off ebay. The sellers were hams and
>they knew what they were talking about. The third Hybrid I bought
>from a ham store. It was checked by a tech and had a 60-day return
>policy.
>
>I think I paid a premium price for all three radios. But I am also
>risk averse and prior to purchase I sent e-mail to the sellers asking
>them very detailed questions about the actual operation of the radio.
>To the extent they they could answer and the radio was in good working
>order, I placed by bid.
>
>So that's my e-bay experience buying hybrids - whats yours?
>
>Gary / ke9zm
>
>
>

>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_53
0_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7314. Re: Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 11:57:42 UTC
From: n3hkn
Topic: 7307 Message: 7314

The normal claims for electronics stuff on the internet is that "I have no way to test it". Usually an outright lie. It just gives the seller cover. However, buying anything on eBay is a risk. The seller rating is about the only valuation you have of their honesty. Ham gear probably carries slightly less risk due to the fraternal nature of the hobby. I bought my TS-520S via eBay and am satisfied. Paid $275 and it works with the original Japenese tubes in it. It does put out 100w. It is really you personal choice as to risk. No one can really help you there - it is you money.

Dick N3HKN

7315. Re: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 12:18:45 UTC
From: Irena and Richard Jenkins
Topic: 7307 Message: 7315

On Thursday 20 April 2006 07:50, ke9zm wrote:
> I have been on this group for about 2 months. I have read a number of
> postings that indicated that the radio was bought off of e-bay and it
> had some problem that was not disclosed by the seller.
>
> Just wondering, for those folks who bought any of the hybrids off of
> ebay, how many folks got a radio that didn't quite work. That might
> be some good proactive info for those who are planning a purchase from
> e-bay
++

Gary

Your email raises some interesting points. I have bought several radios over the internet in past years and I can add some experiences to yours. I am in no way 'bagging' Ebay here in Australia ... but I feel there are real risks when dealing with someone you don't know, who may not know anything about the radio, ... and who may reside on the other side of the country. If there is mis-representation during the sale it can be difficult to resolve any disputes.

1. I "won" a Yaesu Ft-___ solid state transceiver ... that had seen better days. Although described in reasonably glowing terms ... I was not prepared for its condition. The case literally fell apart in your hands. Postal services had not damaged it ... but some heavy-handed internal examinations had ruined its appearance. Luckily it worked well ... it was stable and and I got excellent audio reports from other amateurs. When time came to sell it I advertised it on a amateurs-only website ... and tried to give a balanced picture of the rig. The person who did buy it was happy with what he got.

2. I also "won" a Tentec transceiver ... which was/is excellent. The owner was an older gentleman ... and wrapped his 'pride and joy' up carefully ... and It arrived as he described it ... and I remain 110% satisfied with that transaction.

3. I bought a TS-530S ... on Ebay ... and although very heavy ... it arrived in good condition (thanks to careful handling by our postal service). It was by and large as described ... and I only got rid of it because in a foolhardy moment I decided that I didn't need another 'hybrid' radio. No concerns about the seller's description.

4. A Yaesu Ft-1__ that I won came in at such a low price I was really pleased. Although it had been by the sea for some of its life ... it continued to function well. It was eventually moved on to a friend ... who was well pleased with its performance.

My guiding rule is to listen to my instincts. They usually say something is not right ... and I drop out of the bidding.

Prices are frequently higher than I figure a particular piece of gear is worth ... but I think that is because some buyers cannot tell what a piece of 15 or 20-years old electronics is really worth. My maximum price usually has a built-in ceiling to allow for a little work to correct little problems that the seller forgot to mention.

Even if I want the gear ... I have a clear idea of the maximum price I will pay (allowing for postage) and I try to stick with it. I have questioned the seller ... but I find that's of limited value because it was their dad's ... and/or they will not admit to knowing anything. Most sellers use a pseudonym ... and often you get limited information of who and where they are. Willingness to hand over hundreds of dollars to strangers is not part of my upbringing ... and I don't sleep too well on it.

I much prefer to buy and sell amateur gear on a local site run by an amateur (VK2CA). Listing gear with a photograph is possible (and free) ... and I am more comfortable in dealing this way. At most times there are upwards of 400 pieces of gear advertised in this site. I can ask (phone/email) the seller (usually an amateur) why he thinks this gear is worth so much, is he interested in a near offer, what work was done on it ... and how long he has owned it. Answers to these questions (and a possible on-air test) give me valuable information about the value of the gear.

(http://www.vkham.com) is my preferred site ...

That said I looked over Ebay today ...

Richard

--
--
Irena and Richard Jenkins VK1NDV & VK1RJ
Canberra, AUSTRALIA
++

7316. Re: [TS-520_820_530_830] Re: Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 13:30:51 UTC
From: Paul Manuel
Topic: 7307 Message: 7316

--- n3hkn <n3hkn@...> wrote:>
> The normal claims for electronics stuff on the internet is that "I
> have no way to test it". Usually an outright lie. It just gives the
> seller cover. However, buying anything on eBay is a risk. The seller
> rating is about the only valuation you have of their honesty. Ham gear
> probably carries slightly less risk due to the fraternal nature of the
> hobby.

I would agree with the last part of this statment if the equipment is actually being sold by the ham owner. Much ham equipment on ebay is sold by selling agents and people who buy to resell. The listings are absolutely full of mis-statements about the rigs specs and features, without even considering whether the equipment works or not. I have recently seen microphones sold as transceivers and tons of solid-state rigs with 200 watts "output" (should be "input.")

Personally, I have had good results on ebay when dealing with the ham owners themselves. The best strategy is for the potential buyer to become as familiar as possible with the equipment in question and if he finds an error in the listing, suspect everything. Non-hams do not even know how to test the equipment and they do not understand our tradition of fairness. For these reasons I do not buy ham gear from non-hams unless it is super-cheap.
73,
Paul K4PDM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7317. Re: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 15:19:44 UTC
From: Bill Scurlock
Topic: 7317 Message: 7317

Hi Gary,

Just to give you a balance to Richard's comments, I bought a TS-530 and a TS-830 from different individuals on ebay. They were reportedly working properly, but they each had problems. They both came from hams, and I do not think either individual was actually aware of the issues. Many people tend to operate on only certain frequencies or modes, so they do not actually monitor the overall total operation of their equipment. Or else, they have not used it in some period of time, and they assume that it is still working properly when being taken out of storage. People's expectations also come into play. For example, 75 watts is just as good as 100 watts for some operators, and knowing that their signal is somewhere inside a given band as opposed to knowing within a hundred cycles or so of exact frequency is fine for other operators. People are just different. When I buy something on ebay, I do not expect it to be fully functional when it arrives, and I am usually not disappointed.

I think there are at least 3 categories of sellers out there. Those who know there is something wrong with their equipment and try to hide it, those who believe everything is ok with their equipment but it actually has some problems, and people who know their equipment is actually operating correctly when they ship it - and the stress of shipping actually causes problems. In any of these cases, buyers of older equipment need to be willing and able to undertake repairs when they buy it, and be prepared to maintain/repair it during the years they use it - because parts do fail with time and use. If someone is not capable or interested in doing the repairs themselves, there are members of this group, and others, who will provide assistance.

As you suggested, try to exchange information with the seller (email, telephone, etc) and determine as best you can the actual condition of the equipment before buying it. There are good honest people who sell/buy on ebay and other sites, and there are dishonest crooks out there too. I have bought from both, and learned from the experiences. One seller refunded all my money - including shipping - and told me to keep the equipment. Another seller was totally unaware of the problem and sent me parts, provided coaching assistance, and sent me test equipment to help me repair the problem. So don't give up on human nature because of a few bad apples in the barrel. (I'm not even going to comment about the "bad" guys). I imagine each transaction has some type of story to tell about either the equipment or the people involved.

Enjoy the hobby.

73, Bill, K5GCW
----- Original Message -----
From: Richard Harris
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, April 20, 2006 2:12 AM
Subject: Re: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

Hi Gary,

I bought a TS-530SP from a UK ham on e-bay and have been delighted with it. The seller was prepared to drive a total of 100 miles to meet me half way (on the busiest motorway in the UK on a Friday afternoon) so that it did not have to sent by courier.

It was completely functional and I have now been using it for two years.

Richard G3OTK

At 21:50 19/04/2006 +0000, you wrote:
>I have been on this group for about 2 months. I have read a number of
>postings that indicated that the radio was bought off of e-bay and it
>had some problem that was not disclosed by the seller.
>
>Just wondering, for those folks who bought any of the hybrids off of
>ebay, how many folks got a radio that didn't quite work. That might
>be some good proactive info for those who are planning a purchase from
>e-bay
>
>Having read the ebay autions for hybrids for the past 2 months I
>observed that about 1/3 to 1/2 of the folks offering these radios for
>sale have no idea of what they have. When they say "100 W out on all
>bands" it is most likely NOT a measured output but just something the
>seller copied from some source. The same goes for pretty much the
>other content of these ebay seller descriptions.
>
>As for me, I bought 2 Hybrids off ebay. The sellers were hams and
>they knew what they were talking about. The third Hybrid I bought
>from a ham store. It was checked by a tech and had a 60-day return
>policy.
>
>I think I paid a premium price for all three radios. But I am also
>risk averse and prior to purchase I sent e-mail to the sellers asking
>them very detailed questions about the actual operation of the radio.
>To the extent they they could answer and the radio was in good working
>order, I placed by bid.
>
>So that's my e-bay experience buying hybrids - whats yours?
>
>Gary / ke9zm
>
>
>
>
>
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on

> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7318. RE: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 11:50:57 UTC
From: Ron Hauser
Topic: 7307 Message: 7318

Hi all. I have bought two hybrids, a TS820S from an auction and a TS830S from a ham nearby direct. The 820 I got at a price that was bargain basement, well below "ebay." it has had a variety of minor issues... Something in the PA area is knocking out the cathode resistors, and I'm still working on that. The digital display didn't work, but a friend of mine was able to fix it. But overall, the radio is in good working order and just needs some typical maintenance. I believe I got exactly what I paid for, and I'm happy.

My 830S was from a ham nearby, who claimed it was 9 out of ten. Well, I love this radio and I use it every day, but the cathode resistors needed replaced, the alignment between USB/LSB was off, the S-meter needed calibrated, it needed the bandswitch repair, and 30m had ok receive but no transmit. How he could call this radio a 9/10 I don't know, but I do still feel that I got an acceptable deal for the price, it is a good working radio that is 20 years old and after some typical maintenance work it performs like a dream.

I think that a person who is buying these older radios, is going to end up in one of two situations. (1) if you buy from a ham, and you really grill the fellow about what he has done with the radio, how it was operated and how it performed, you may very well get a unit that is in primo condition. In this case you may very well pay a premium. (2) if you end up buying from an auction, or from someone who doesn't know what they have, you probably will end up with a radio that needs work. If they said it works fine, it probably needs typical maintenance. (if they said it needs work, it is probably a major rebuild job).

So I think when buying these older radios, it is best to acknowledge that you are buying some work... Unless you paid a premium from a really knowledgeable person. Don't get me wrong, I think those are good options. For a cheap price, and some reasonable maintenance, you can get a radio that works beautifully. I am completely happy with both of my purchases, and the ongoing maintenance I am doing with the radios. I knew I'd be getting a learning experience along with a radio.

--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of w3iz
Sent: Wednesday, April 19, 2006 5:23 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Whats your experience buying Hybrids off

e-bay ??

Hi Gary et al.
As one who has bought and sold these kinds of rig on the web, I have to agree that Gary's advice to ask questions and even get a phone number and talk to the seller is a good business practice.

Read the descriptions carefully and don't read anything into them. Assume nothing. If you are not sure or the seller is not sure then stay away. There are plenty of radios out there.

Most folks who get burned in any deal, radio or otherwise burn themselves. They get way ahead of themselves and fall in love with the product or the promise of what the product will do for their ego, personality or status.

Also, as I may have stated before, bargain is not a bargain if it arrives damaged. Specify exactly how you want it packaged and don't be afraid to pay a little extra to have it insured.

Buy and selling on line may be a little different than in person but the basic princple of the deal are the same. Once it is done it's over. You have to ask your questions ahead of time and listen to how the answers are phrased.

Good luck and good bidding.
73,
Norm, W3IZ

Amateur Radio is a contact sport.
Get on the air and make a contact.
----- Original Message -----
From: "ke9zm" <ke9zm@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 5:50 PM
Subject: [TS-520_820_530_830] Whats your experience buying Hybrids off e-bay

??

>I have been on this group for about 2 months. I have read a number of
> postings that indicated that the radio was bought off of e-bay and it
> had some problem that was not disclosed by the seller.
>
> Just wondering, for those folks who bought any of the hybrids off of
> ebay, how many folks got a radio that didn't quite work. That might
> be some good proactive info for those who are planning a purchase from
> e-bay
>
> Having read the ebay autions for hybrids for the past 2 months I
> observed that about 1/3 to 1/2 of the folks offering these radios for
> sale have no idea of what they have. When they say "100 W out on all
> bands" it is most likely NOT a measured output but just something the
> seller copied from some source. The same goes for pretty much the

> other content of these ebay seller descriptions.
>
> As for me, I bought 2 Hybrids off ebay. The sellers were hams and
> they knew what they were talking about. The third Hybrid I bought
> from a ham store. It was checked by a tech and had a 60-day return
> policy.
>
> I think I paid a premium price for all three radios. But I am also
> risk averse and prior to purchase I sent e-mail to the sellers asking
> them very detailed questions about the actual operation of the radio.
> To the extent they they could answer and the radio was in good working
> order, I placed by bid.
>
> So that's my e-bay experience buying hybrids - whats yours?
>
> Gary / ke9zm
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

Yahoo! Groups Links

7319. Re: [TS-520_820_530_830] Re: Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 18:19:56 UTC
From: Bill Richarz
Topic: 7307 Message: 7319

Ebay would be my last place of choice to buy a
transceiver. I buy most of my hamradio gear from
QTH.COM. 95% of the sellers are hams and when I'm
interested I email that person and ask some well
thought out questions. I usually can tell right off
from their reply. Before I close the deal I usually
make a phone call to them with any unanswered
questions and discussions about the radio. At that
time I can also make an offer of a lesser value if I
think it more in line with the price I had in mind. I
have not been burned there once.

Of course any used piece of ham gear bought unseen can
sometimes be other than described, but actually
chatting with the seller even if it is small talk
makes us feel like buddies...so who wants screw a
fellow ham?
If you are a real newbie this may not work as well.
So maybe have your Elmer or another ham call.
Works for me.

73 N4DH, Bill

--- n3hkn <n3hkn@...> wrote:

>
> The normal claims for electronics stuff on the
> internet is that "I
> have no way to test it". Usually an outright lie. It
> just gives the
> seller cover. However, buying anything on eBay is a
> risk. The seller
> rating is about the only valuation you have of their
> honesty. Ham gear
> probably carries slightly less risk due to the
> fraternal nature of the
> hobby. I bought my TS-520S via eBay and am
> satisfied. Paid $275 and it
> works with the original Japenese tubes in it. It
> does put out 100w. It
> is really you personal choice as to risk. No one can
> really help you
> there - it is you money.
>
> Dick N3HKN

>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7320. BILL -N4DH-7 PIN DIN PLUG-ALLIED CAT.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 20:08:49 UTC
From: Paul
Topic: 7320 Message: 7320

Hello Bill;
On the Allied Web site,go to page 265 in the catalogue,or in the search for parts- STOCK#-514-8654 INPUT that number,that should do it,I think thats the one you need? $1.29ea.I really enjoy thier big paper catalogue,its free just for the asking,just click on send cat and follow directions.I think every ham shoild have 1 of these a lot of hard to find parts are here,the catlg has 1939 pages of component EYE CANDY HI HI .Take CARE-73
DE-K8PG-PAUL-CW LIVES

7321. ALLIED STK# 514-8656 HI HI CORRECTION!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 20:18:51 UTC
From: Paul
Topic: 7321 Message: 7321

MY EYES ARENT WHAT THEY USED TO BE HI HI
TAKE CARE
DE-K8PG PAUL CW LIVES

7322. Re: TS-530SP 7 Pin Din Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-20 23:13:37 UTC
From: steveb84us
Topic: 7294 Message: 7322

Amateur Electronic Supply has a Kenwood 7 Pin Din Plug for $4.99.

Steve - N9SB

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...>
wrote:
>
> Ayone know where I can get a 7 Pin Din plug for the
> TS-530SP accessory jack?
>
> Tnx, de Bill, N4DH
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7323. Re: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 00:45:16 UTC
From: Walt Breining
Topic: 7311 Message: 7323

Does this happen on receive?
Vy 73, Walt N9WB

----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 10:31 PM
Subject: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

> I just got an e-mail, from WD5ABC, who worked me shortly before the
> QSO mentioned down below. He told me that he noticed the VFO drift
> too, but that it didn't happen, until we had been QSOing for about 15
> minutes or so. So it's possible that thermal/heating up effects on
> one of the components could be causing the drifting. Any ideas which
> one people?
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
> >
> > Hi everybody,
> >
> > I need to tap into your expertise again. Late this afternoon, I
> was
> > getting some use out of my TS-820, on 40m CW, when I received a
> > little suprise during the QSO I was having - a drifting VFO. This
> > wasn't just a 100-200hz, it was at least 2 KHz or so, over the
> course
> > of a 20 minute QSO. The station I was QSOing with, N1MS, not only
> > commented about it on the air, he even commented about it, in an e-
> > mail he sent me after the QSO was over. The rig he was using was
> an
> > ICOM IC-756 Pro II, so I doubt very much it was his rig that was
> > drifting. This was only the 3rd time I've used the 820 on the air
> > (I've been either too sick, or too busy for hamming). Could this
> be
> > related to another problem I'm having? - transmit freq. is slightly
> > off from the receive freq. [the manual says to adjust the 9V supply
> > to fix this problem]). Or, could it be something else like the
> > electrolytic caps in the radio (especially in the VFO) drying out
> > with age (Japanese capacitors of my rig's vintage, are notorious
> for

> > drying out as they get older)? Thanks for any input you might have
> > in this problem.
> >
> > 73,
> > Ellen - AF9J
> >
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7324. Re: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 00:46:55 UTC
From: Walt Breining
Topic: 7311 Message: 7324

VR4 on the AF/avr board can become intermittant and cause the 9v to shift causing all sorts of mischief.
Walt. N9WB

----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 19, 2006 10:31 PM
Subject: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

7325. Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 02:29:04 UTC
From: Ellen R
Topic: 7311 Message: 7325

Hi Walt,

It happens on both receive and transmit. Both WD5ABC, and WB7AVF (who also belongs to this group), told me that it started to drift when we'd been QSOing for a while (20 minutes to 40 minutes). I also begin to notice that the other station is off of my frequency. Earlier tonight, while QSOing with WB7AVC, the TS-820 behave itself for about 1/2 hour or so. Then it began to drift to the point where we were about 1 or 2 KHz off from each other (at least according to my RIT). ALL hams I've QSOed with in the past 3 days have commented about how I was drifting. It actually made it hard for both sides of the QSO, to keep it going.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Does this happen on receive?
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Ellen R" <ellenjoanne2003@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 19, 2006 10:31 PM
> Subject: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO
> drift - ADDITIONAL INFO.
>
>
> > I just got an e-mail, from WD5ABC, who worked me shortly before the
> > QSO mentioned down below. He told me that he noticed the VFO drift
> > too, but that it didn't happen, until we had been QSOing for about 15
> > minutes or so. So it's possible that thermal/heating up effects on
> > one of the components could be causing the drifting. Any ideas which
> > one people?
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"

> > <ellenjoanne2003@> wrote:
> > >
> > > Hi everybody,
> > >
> > > I need to tap into your expertise again. Late this afternoon, I
> > was
> > > getting some use out of my TS-820, on 40m CW, when I received a
> > > little suprise during the QSO I was having - a drifting VFO.
This
> > > wasn't just a 100-200hz, it was at least 2 KHz or so, over the
> > course
> > > of a 20 minute QSO. The station I was QSOing with, N1MS, not
only
> > > commented about it on the air, he even commented about it, in
an e-
> > > mail he sent me after the QSO was over. The rig he was using
was
> > an
> > > ICOM IC-756 Pro II, so I doubt very much it was his rig that was
> > > drifting. This was only the 3rd time I've used the 820 on the
air
> > > (I've been either too sick, or too busy for hamming). Could
this
> > be
> > > related to another problem I'm having? - transmit freq. is
slightly
> > > off from the receive freq. [the manual says to adjust the 9V
supply
> > > to fix this problem]). Or, could it be something else like the
> > > electrolytic caps in the radio (especially in the VFO) drying
out
> > > with age (Japanese capacitors of my rig's vintage, are notorious
> > for
> > > drying out as they get older)? Thanks for any input you might
have
> > > in this problem.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >

> >
> >
> >
> >
> >
> >
>

7326. Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 02:32:09 UTC
From: Ellen R
Topic: 7311 Message: 7326

I know that the 9V supply can be off. In my case it definitely is, because the receive freq. seems to be off from the transmit freq. (even on SSB). So you're saying that it can drift in both transmit & receive? I assume that I'll have to order another regulator from mouser to replace VR4?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> VR4 on the AF/avr board can become intermittant and cause the 9v to shift
> causing all sorts of mischief.
> Walt. N9WB
>
> ----- Original Message -----
> From: "Ellen R" <ellenjoanne2003@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 19, 2006 10:31 PM
> Subject: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO
> drift - ADDITIONAL INFO.
>

7327. Re: Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 13:45:02 UTC
From: Mike McCardel
Topic: 7307 Message: 7327

I bought a Kenwood 520 on eBay for $240 in '04. It was sold with an Astatic Mic a speaker and extra tubes. When it arrived it was packed in just foam peanuts half of the extra tubes were broken, the radio tore a hole in the metal screen of the speaker (not an original), and the dial on the radio was frozen. I took the front off the case and disassembles/reassempled the dial structure and now it moves smoothly. The power cord still fits loose but it works like a dream. The external speaker works fine but looks funky, and the Mic has been absolutely wonderful. I slaped up a G5RV and ran it without a tuner on all bands. I have worked all States on it and had several DX QSOs including one from Antarctica! I have since bought another radio and passed this one to my son who is now using it. All in all, I believe I made a good deal, dispite my original disapointment when it arrived.

EMike, KC8YLD

--
E. Michael McCardel

[Non-text portions of this message have been removed]

7328. Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 14:34:06 UTC
From: Kevin Hunter
Topic: 7302 Message: 7328

Adrian - I have the same problem with an '830. I have found several references to that problem and the suggested solution is to replace the driver tube. I've tried 3 different new-old-stock 12by7a's with no success.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Be sure that the SG switch on the back is on. You will only get a carrier
> on tune or CW. Carrier control should be fully clockwise..
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "alpyke" <alpyke@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 19, 2006 12:45 PM
> Subject: [TS-520_820_530_830] TS-830 no ALC in Tuning
>
>
> > Hi All:
> >
> > I'm a new member of this group and a new owner of a TS-830S. I'm
> > having some trouble getting it tuned up, and would really appreciate
> > any advice, help, guidance, suggestions etc.
> >
> > The problem is as follows:
> >
> > 1) I purchased a TS-830S off ebay. Prior user says it works. Who
> > knows...
> > 2) I've used it in receive only for a week or so, and it works fine.
> > 3) I connected a dummy load (50 ohm) to the output, and tried to
> > tune it up. I've tried at several frequencies, with the same result:
> > 4) Following the procedure in the manual, I set the IP to 60 ma.
> > This works no problem. It was set to 70ma from the prior user, I
> > turned it down slightly with the knob on the back and that works.
> > 5) The next step is to "peak the ALC". Here, when I set up
> > according to the manual, I get nothing on the meter for ALC, and
> > also nothing on the output power meter I have with the dummy load.
> > (I also tried FYI without the external power meter in the circuit,
> > only the dummy load, just in case there was a problem with my power
> > meter. Same result, ALC=0). To check the dummy load, I

> > disconnected the ANT cable from the back of the TS-830, and measured
> > 50 ohms on the end of the cable that plugs into the TS-830. I've
> > also tried adjusting the CAR to both extremes, same result.
> > 6) I can see that the 2 final tubes (6146B's) are each glowing.
> > Also the tube that drives them (can't remember the number off hand)
> > is glowing.
> > 7) I haven't made any measurements, but I can if anybody knows
> > (precisely) what I should measure. I do not have a VTVM, but I do
> > have a DMM, and Analog multi-meter and a scope available.
> >
> > Thanks for any suggestions.
> >
> > 73 - Adrian, KB1NFW.
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

7329. Equipment for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 14:43:02 UTC
From: Bill Hall
Topic: 7329 Message: 7329

I can't remember if it's OK to list equipment that I have for sale that pertains to this group.

73's

Bill KZ5CW

7330. Re: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 17:37:17 UTC
From: Walt Breining
Topic: 7311 Message: 7330

VR-4 is a trim pot that controls the 9v regulator. I replaced mine with two fixed resistors that gave me exactly 9 v. Also, the reason that I asked if it was drifting on both TX and RX is that the contacts on the back of the VFO capacitor become dirty. There is a metal cover that can be removed and on the back of the capacitor, there are contacts that ground the rotor plates to the case. These often need cleaning in an older rig. Craig Do-Oxit works well. Rubbing alcohol is a lessor substitute. Do not use WD-40.

And PLEASE everybody, no posts about WD-40.

Also while you are in there, turn on your calibration escalator and tune it for a tone. Poke around inside pushing with an insulated tool looking for intermittent spots. The first place to poke around is the AF AVR board. BTW, does this do this on LSB ? Do you have the operating and service manual ? I am going to be gone until Tuesday so don't anybody feel offended if I don't respond to messages during that time.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, April 20, 2006 9:32 PM
Subject: [TS-520_820_530_830] Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

> I know that the 9V supply can be off. In my case it definitely is,
> because the receive freq. seems to be off from the transmit freq. (even
> on SSB). So you're saying that it can drift in both transmit &
> receive? I assume that I'll have to order another regulator from
> mouser to replace VR4?
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
> wrote:
> >
> > VR4 on the AF/avr board can become intermittant and cause the 9v to
> shift
> > causing all sorts of mischief.
> > Walt. N9WB
> >
> > ----- Original Message -----
> > From: "Ellen R" <ellenjoanne2003@...>
> > To: <TS-520_820_530_830@yahoogroups.com>

> > Sent: Wednesday, April 19, 2006 10:31 PM
> > Subject: [TS-520_820_530_830] Re: Another issue raises its ugly head -
> VFO
> > drift - ADDITIONAL INFO.
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7331. Re: Another issue raises its ugly head - VFO drift - ADDITIONAL INFO.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 20:05:32 UTC
From: Ellen R
Topic: 7311 Message: 7331

So this will help , even if the problem is thermally related? Cool.
Thanks again Walt.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> VR-4 is a trim pot that controls the 9v regulator. I replaced mine
with two
> fixed resistors that gave me exactly 9 v. Also, the reason that I
asked if
> it was drifting on both TX and RX is that the contacts on the back
of the
> VFO capacitor become dirty. There is a metal cover that can be
removed and
> on the back of the capacitor, there are contacts that ground the
rotor
> plates to the case. These often need cleaning in an older rig.
Craig Do-Oxit
> works well. Rubbing alcohol is a lessor substitute. Do not use WD-
40.
>
> And PLEASE everybody, no posts about WD-40.
>
> Also while you are in there, turn on your calibration escalator and
tune it
> for a tone. Poke around inside pushing with an insulated tool
looking for
> intermittent spots. The first place to poke around is the AF AVR
board. BTW,
> does this do this on LSB ? Do you have the operating and service
manual ?
> I am going to be gone until Tuesday so don't anybody feel offended
if I
> don't respond to messages during that time.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Ellen R" <ellenjoanne2003@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, April 20, 2006 9:32 PM
> Subject: [TS-520_820_530_830] Re: Another issue raises its ugly

head - VFO
> drift - ADDITIONAL INFO.
>
>
> > I know that the 9V supply can be off. In my case it definitely
is,
> > because the receive freq. seems to be off from the transmit freq.
(even
> > on SSB). So you're saying that it can drift in both transmit &
> > receive? I assume that I'll have to order another regulator from
> > mouser to replace VR4?
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > VR4 on the AF/avr board can become intermittant and cause the
9v to
> > shift
> > > causing all sorts of mischief.
> > > Walt. N9WB
> > >
> > > ----- Original Message -----
> > > From: "Ellen R" <ellenjoanne2003@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, April 19, 2006 10:31 PM
> > > Subject: [TS-520_820_530_830] Re: Another issue raises its ugly
head -
> > VFO
> > > > drift - ADDITIONAL INFO.
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
>

7332. Re: Whats your experience buying Hybrids off e-bay ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 21:08:00 UTC
From: james27613
Topic: 7307 Message: 7332

hi,

I've had great results with all my
ham gear that was obtained from
sellers on ebay with high feedbacks (500+)
and with very low feedback but no negative.

be sure that the seller understands what
double boxed means, not sending the stuff
in two seperate boxes !

the ups crew must have been hams otherwise
my ts520 with accessories would have been
a pile of junk as the poor packaging would have
resulted in a denied claim.

I must admit, if it sounds too good, it is,
once in a while there are some good deals,
like the ts-600 that was on buy it now for
$ 165 ! I did not need it so I put a low bid
on it so the bin would go away, it sold for $ 365 !

I did jump on a ts-50 + at-50 $ 200 !
from a ham in my state, he was getting out of the
hobby and was giving away all his gear at reasonable prices.

I've only used email to ask/answer the questions,
many many good sellers out there that move a lot of
estate goods and the same stuff is at the hamfests.

One good rule, don't get into a bid war, if you just
gotta have it, then get it local where you can see and
touch it and get to operate the gear before you buy it.

Check completed auctions first before you buy, see what
the items are going for. Also check the sellers previous
auctions, did he just buy that 520s for $ 120 as a parts rig
and is now trying to flip it for $ 275 ?

Another factor is the ship fees, try to get the gear from
sellers close to your qth and use fedex home if possible,
it is less expensive then ups ground.

73 james ke4dɪn

7333. TS-530S Sudden Low Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 22:00:30 UTC
From: Stephen Davis
Topic: 7333 Message: 7333

Hello All,

I have a TS-530S that has been working fine and is my primary rig.
This morning I go to tune it for 40 meters and notice low output. I checked the bias and it was down. I adjusted the bias back up to 60ma and then tried re-tuning. The best I can get is about 40 watts out. Tried tuning on 20 meters and got same low output. Hooked up a second dummy load with meter and still same results. Last night it was putting out 100 watts on 40 meters. Any suggestions on what could be wrong? Would one or both of the final tubes "get sick" over night? What would cause the bias to drop from the required 60ma to about 10ma overnight? This was the value until I cranked it back up via the rear bias adjustment. Any suggestions would be appreciated. I am thinking that I need to pick up new finals, but not sure that is the problem.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

7334. Update: TS-530S Sudden Low Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 22:25:36 UTC
From: Stephen Davis
Topic: 7334 Message: 7334

All,

Sorry, I made a goof! I was reading the wrong scale on the dummy load watt meter. The output is only about 4 watts, not 40 watts as I stated earlier. The output in tune mode is about 2 watts. I checked the screen grid switch at the rear of the radio in case it had gotten bumped and it was ok (in the "ON" position).

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

7335. Update: TS-530S Sudden Low Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-21 23:18:52 UTC
From: Stephen Davis
Topic: 7334 Message: 7335

All,

I must be having one of those "Dumb Days". My original post regarding the output was correct. I get about 40 watts out in CW mode and in Tune mode about 8 watts out. So my problem is still as described in my first post.

Steve K7QHU

[Non-text portions of this message have been removed]

7336. Re: TS-530S Sudden Low Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 03:19:30 UTC
From: budgiebob2005
Topic: 7333 Message: 7336

Stephen First check using your meter [built in] check your HT
is around 800volts could be that 1 off smoothing capacitors have
failed [there are 2 in series] if this is case it could be as low
as 400volts. If ok then next check using a test meter check Screen
voltage on the output panel and check that this reduces when you go
to the Tune position to verify the screen grid network is good . Are
other bands also low . good luck BOB
G8ACQ

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis"
<sdavis@...> wrote:
>
> Hello All,
>
> I have a TS-530S that has been working fine and is my primary
rig.
> This morning I go to tune it for 40 meters and notice low output.
I checked
> the bias and it was down. I adjusted the bias back up to 60ma and
then
> tried re-tuning. The best I can get is about 40 watts out. Tried
tuning on
> 20 meters and got same low output. Hooked up a second dummy load
with meter
> and still same results. Last night it was putting out 100 watts
on 40
> meters. Any suggestions on what could be wrong? Would one or
both of the
> final tubes "get sick" over night? What would cause the bias to
drop from
> the required 60ma to about 10ma overnight? This was the value
until I
> cranked it back up via the rear bias adjustment. Any suggestions
would be
> appreciated. I am thinking that I need to pick up new finals, but
not sure
> that is the problem.
>
> Thanks
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>

7337. Re: TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 16:54:29 UTC
From: bob_cunnings
Topic: 6800 Message: 7337

Hello,

I have the same problem with a TS-520S, and see that you message never received a response, at least not on the list...

To me the tuning feels "grainy" or "bumpy" as the knob is turned, but if I push "in" hard enough on the knob/shaft then it seems to be ok. Some backlash has developed at one point of rotation.

Has anyone dealt with this and have advice/observations to offer on possible remedies? Is a teardown and fixup of the vfo geartrain etc. usually enough to do the job?? Or is the problem typically a result of irreversibly worn parts, making a vfo transplant the better option?

I've been spoiled by the silky smooth tuning of my even older TS-520 and would like to get this one up to snuff.

Thanks,

Bob NW8L

--- In TS-520_820_530_830@yahoogroups.com, "Jim Adams" <jadams9103@...> wrote:
>
> Hi everyone. I am a new member to the group. I have had my General for
> about 4 months. I was a novice for a year in 1954 so it's been awhile.
> My rig is an old but loved TS-520SE which has developed indents (feels
> like a flat ball bearing) when rotating the tuning knob. Has this been
> discussed before and can anyone help identify the cause and possible
> fix? It still tunes OK, but I have noticed that if on a 'flat spot'
> the dial will drift to either side. Thanks for your help.
>

7338. eBay purchases of Kenwood hybrids-latest experience

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 17:42:46 UTC
From: stevehurstg8lik2003
Topic: 7338 Message: 7338

Hi,
I recently posted details of a Kenwood TS520SE and the rather superior TS830S bought off ebay.
Today the postman arrived with a TS520. The original -and basic I guess, but for £127 plus shipping from Northern Ireland (well boxed too) it does not seem a bad deal despite the lack of 160M band.
Power out was found to be fine, 100W plus on 14MHZ. However when I tried 28MHZ it was only half that. If you looked at ALC in tune position when transmitting (carrier) it dropped from half scale to nothing after a couple of seconds. The cure for that was a 12BY7A driver transplant, all fine now and full power there again.
Seems like a smoker had owned the radio at some stage as the white grooves on the front panel knobs were actually brown making it difficult to see where they were pointing-washing up liquid and a sponge sorted the worst. The internals however seemed in good shape...nicotine and dust free. Audio reports so far are great!
Good luck to all! Lets keep them going!

Best 73's,

Steve

7339. Drifting?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 20:07:10 UTC
From: Roberto Baca Barnard
Topic: 7311 Message: 7339

Tnx for the tube report, Ellen. The MIL-SPEC rated finals sound pricey, I must say. A friend in Seattle may send out some more Kenwood goodies, including new tubes, in the box, from Japan. We shall see. QSL our QSY X 2 40M QSo, by the way, after 20m failure. 73 rbb

7340. Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 21:40:44 UTC
From: ke9zm
Topic: 7340 Message: 7340

I sent out a few personal messages to people that post on this newsgroup asking if they were interested in getting a HF net together. The purpose would be to put your Hybrid on the air with other Hybrid owners and discuss, in real-time, the kinds of things written about in this newsgroup.

The response I got was that eveyone thought it was a good idea. However, myself included, none of the folks were in an excellent position (eg a great antenna situation) to be the first net control. To have a successful net we need someone with a decent/great antenna and at least 100+ watts.

So, if anyone is interested in having a weekly HF net for the purposes of getting your Hybrid on the air with other folks AND discussing Hybrid-related topics.... send me some e-mail per your interest.

More importantly, if you want to be one of the net control operators and you have a station capable of that ... tell me that too.

After a week of so, I will post the results to this newsgroup

ke9zm@...

7341. 820 and 820S- do both have FSK?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 21:52:44 UTC
From: alaskaboy114
Topic: 7341 Message: 7341

Looking at the 820 and 820S models.

Do they both have FSK?

Is the only difference the digital display?

Thanks,

Mike

7342. Re: [TS-520_820_530_830] 820 and 820S- do both have FSK?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-22 23:22:34 UTC
From: Bill Hall
Topic: 7341 Message: 7342

Both have FSK. Some 820's have digital displays.
Bill

----- Original Message ----
From: alaskaboy114 <mike.wood@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, April 22, 2006 4:52:44 PM
Subject: [TS-520_820_530_830] 820 and 820S- do both have FSK?

Looking at the 820 and 820S models.

Do they both have FSK?

Is the only difference the digital display?

Thanks,

Mike

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7343. Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 05:06:15 UTC
From: alpyke
Topic: 7302 Message: 7343

Thanks to all for the suggestions:

1) The mode switch is set to TUNE.
2) The SG switch on the back is ON.
3) The CAR knob has been tried in all positions.

I've followed very carefuly the directions in the manual, and all of these settings are mentioned there. I suspect there really is something wrong with the equipment. Anything I could do to confirm the 12BY7A tueb is defective before replacing it? Or is that the easiest course?

Thanks again - Adrian

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Adrian,
>
> More than likely, the suggestions the other hams in the group have
> made will solve your problem. If you still have no ALC, after
> checking for the things previously mentioned, you might want to check
> one other thing - the 12BY7A driver tube. Usually if these are taken
> care of, they last a long time. But if they're worn out, you can end
> up with no Drive, and as a result, no ALC. I had this condition
> exist, on both a TS-520S, and a FT-101B I had bought, in college. In
> both cases, I was trying them out for the first time. I replaced the
> driver tube in each rig, and they tuned up fine, with plenty of ALC.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "alpyke" <alpyke@>
> wrote:
> >
> > Hi All:
> >
> > I'm a new member of this group and a new owner of a TS-830S. I'm
> > having some trouble getting it tuned up, and would really

> appreciate
> > any advice, help, guidance, suggestions etc.
> >
> > The problem is as follows:
> >
> > 1) I purchased a TS-830S off ebay. Prior user says it works.
Who
> > knows...
> > 2) I've used it in receive only for a week or so, and it works
fine.
> > 3) I connected a dummy load (50 ohm) to the output, and tried to
> > tune it up. I've tried at several frequencies, with the same
> result:
> > 4) Following the procedure in the manual, I set the IP to 60
ma.
> > This works no problem. It was set to 70ma from the prior user,
I
> > turned it down slightly with the knob on the back and that works.
> > 5) The next step is to "peak the ALC". Here, when I set up
> > according to the manual, I get nothing on the meter for ALC, and
> > also nothing on the output power meter I have with the dummy
load.
> > (I also tried FYI without the external power meter in the
circuit,
> > only the dummy load, just in case there was a problem with my
power
> > meter. Same result, ALC=0). To check the dummy load, I
> > disconnected the ANT cable from the back of the TS-830, and
> measured
> > 50 ohms on the end of the cable that plugs into the TS-830.
I've
> > also tried adjusting the CAR to both extremes, same result.
> > 6) I can see that the 2 final tubes (6146B's) are each glowing.
> > Also the tube that drives them (can't remember the number off
hand)
> > is glowing.
> > 7) I haven't made any measurements, but I can if anybody knows
> > (precisely) what I should measure. I do not have a VTVM, but I
do
> > have a DMM, and Analog multi-meter and a scope available.
> >
> > Thanks for any suggestions.
> >
> > 73 - Adrian, KB1NFW.
> >
>

7344. Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 12:11:33 UTC
From: Charles Mortimer
Topic: 6800 Message: 7344

hallo bob and people who suffer lumpy vfo
lumpy tuning knobs
this is a sign of dried up grease which has got hard
what this means is taking the whole v.f.o out as a unit which includes
the gear train if you take of the gear train be careful of the pre
loaded springs they get lost easy the idea of these small springs is to
pre lode the 2 back to back gears the idea of this is to stop backlash in
the v.f.o. tuning knob and when reassembling pre lode the gear by a
quarter of a turn when meshing it with the smaller gear what this does
takes the slop out of the gear train the hardest part is realigning all
your analogue dials (its better if you can clean the gear train with all
the dials left on) by using a pressure pack cleaner a rather fiddley
process when done do not use thick grease use thin house hold oil the
type that is used for sewing machines (not thick vehicle oil)
then oil the gear train by using a syringe from the drug store the aim
is to get a coating on the bearing surfaces and between the preloaded gears
also on the cogs work this in by running the v.f.o. dial knob a few times
back to both end stops DO NOT GET ANY CLEANING AGENT INSIDE THE V.F.O.
if you turn the spindle with no knob on it will feel slightly lumpy that
will disappear when the v.f.o. knob has been finally fitted all this sounds
slightly complicated (it isn't) approach the job methodically
first remove all the knobs of the front panel remove the for panel under
the v.f.o. dial and lift of Allen key required for this remove the
screws from the sides of the front panel and pull of (this is a good time
to repair those dial lights) also its time to clean all those knobs and
front panel warm water and washing up liquid and a small nail brush
and if those knobs have years of gung on them a cup of warm water 2
teaspoons of bleach and soak them for a day or so no longer when clean
give them a final clean with nail brush and a bar of house hold soap
do not use bleach on front panel just warm water and soap
put in a warm place to dry when dry good time to touch up the front
panel and rim with appropriate paint with the smallest brush artist
really fine one letters and numbers on the front panel a good time to
sort them out they do get worn away a good free standing magnifying
glass (myself I use a jewelers loupe) especially with eyes like mine
they where good once if you don't think you can do this lettering leave it
alone this touch up will make or brake the front panel its very easy to
stuff it up (((practice on something first)))
back to removing the v.f.o. digital camera is the order of the day
take pictures of how it comes to bits note the position of the dials
mark them with a small dot of paint and take a picture make a reference
of everything you do with the camera if you are feeling confident with
your cleaning there is one other job around the vfo .....take the metal
casing of the vfo a couple of screws on the back and inside at the back of
the variable capacitor there is a small brass wiper which gives trouble

de ox this wiper do not touch anything else in there do not touch any
components if you can help it right you have done that now put the
dam thing back together using the diagram in your user manual and
your memory and mot of all those digital pictures ((you did take
some)) OK now I must get to my ft301which is suffering lumpy v.f.o.
dial and requires a re spray and a good clean and partial letters to be
replaced in other words a total cosmetic job and re aligning
this procedure is taken on about 3 Ts 820 that I have been involved in
something else that might help in setting up those analogue dials a
frequency counter
or a near by receiver is a help
all this is from my experience with ts820 / 820s ft 301 and
ft 101 have fun I did and still am
Charles vk6ycj vp8bgx g1fak gj1fak

----- Original Message -----
From: "bob_cunnings" <bob.cunnings@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 23, 2006 12:54 AM
Subject: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

> Hello,
>
> I have the same problem with a TS-520S, and see that you message never
> received a response, at least not on the list...
>
> To me the tuning feels "grainy" or "bumpy" as the knob is turned, but
> if I push "in" hard enough on the knob/shaft then it seems to be ok.
> Some backlash has developed at one point of rotation.
>
> Has anyone dealt with this and have advice/observations to offer on
> possible remedies? Is a teardown and fixup of the vfo geartrain etc.
> usually enough to do the job?? Or is the problem typically a result of
> irreversibly worn parts, making a vfo transplant the better option?
>
> I've been spoiled by the silky smooth tuning of my even older TS-520
> and would like to get this one up to snuff.
>
> Thanks,
>
> Bob NW8L
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jim Adams"
> <jadams9103@...> wrote:
>>
>> Hi everyone. I am a new member to the group. I have had my General for
>> about 4 months. I was a novice for a year in 1954 so it's been awhile.
>> My rig is an old but loved TS-520SE which has developed indents (feels
>> like a flat ball bearing) when rotating the tuning knob. Has this been
>> discussed before and can anyone help identify the cause and possible
>> fix? It still tunes OK, but I have noticed that if on a 'flat spot'

>> the dial will drift to either side. Thanks for your help.
>>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

7345. TS-830S breakthrough on receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 14:59:53 UTC
From: daveb0910
Topic: 7345 Message: 7345

Can anyone help with this unusual problem?

I've had my TS-830 up and running for the last 6 months after a long time in storage. Some minor problems have been fixed (with help from this groups' postings- very helpful thank you) but bascially it has worked fine.

Recently, I have what I can only describe as intermittant RF breakthrough on receive. It happens on all bands, with loud (non-ham) signals appearing across the whole of the band- these are carriers, AM brodcasts and a whole host of other noises. When I switch between bands the breakthrough signals seem to be the same on each band making me think it has something to do with breakthrough on one of the IF freqencies.

This only happens with one of my antennas (a multi-band doublet), and not all the time. Sometimes there are periods of several days when it happens or doesn't, other times it just comes and goes over a matter of minutes.

I'm puzzled about this. I've checked the antenna for bad connections etc but all seems OK. The other main antenna I use, which causes no problems like this, is a similar multiband doublet orientated at 90 degrees to the first one.

AT first I thought this was an antenna or local interference problem, now I am beginning to think it is something in the TS-830.

Any ideas or suggestions about solving this problem would be gratefully accepted.

Dave
G3ZQH
Nottingham, England

7346. Re: TS-830S breakthrough on receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 15:38:24 UTC
From: stevehurstg8lik2003
Topic: 7345 Message: 7346

Dave,
I noticed exactly the same on my recently acquired TS830S-
broadcast stations appearing in the ham bands.
However when the RF attenuator button was operated a few times the
problem went away-at least temporarily.
I attributed the cause as being rectification of strong signals caused
by oxidised contacts in the switch. Certainly its cured....for now.

regards,

Steve G8LIK

7347. Re: Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 16:28:07 UTC
From: Jeff
Topic: 7340 Message: 7347

Great idea! I don't have the proper antenna to be net control, but I'll certainly check in and be a participant. FYI, antenna here is a horizontal loop under the eaves of the roof - 10 feet off the ground. From my QTH near San Antonio, I made it to Buffalo, NY; NE Minnesota, near San Diego, and South Carolina on 40m last night after midnight. Bad condx, but was lucky before the band really went south.

73 de Jeff, KF5KWO
Helotes, TX

7348. Re: [TS-520_820_530_830] TS-830S breakthrough on receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 16:52:52 UTC
From: Peter A Markavage
Topic: 7345 Message: 7348

Check the screws that hold the printed wiring boards. Make sure they're tight. Kenwood uses the pressure of the screws on the boards to make ground contact between the underside of the board and the chassis. Adding a star washer between the board and the mounting frame can cure many intermittent type problems. I believe there was also a service bulletin on the 830 that also identified this issue.

Pete, wa2cwa

On Sun, 23 Apr 2006 14:59:53 -0000 "daveb0910" <heather.dave@...> writes:
Can anyone help with this unusual problem?

I've had my TS-830 up and running for the last 6 months after a long time in storage. Some minor problems have been fixed (with help from this groups' postings- very helpful thank you) but bascially it has worked fine.

Recently, I have what I can only describe as intermittant RF breakthrough on receive. It happens on all bands, with loud (non-ham) signals appearing across the whole of the band- these are carriers, AM brodcasts and a whole host of other noises. When I switch between bands the breakthrough signals seem to be the same on each band making me think it has something to do with breakthrough on one of the IF freqencies.

This only happens with one of my antennas (a multi-band doublet), and not all the time. Sometimes there are periods of several days when it happens or doesn't, other times it just comes and goes over a matter of minutes.

I'm puzzled about this. I've checked the antenna for bad connections etc but all seems OK. The other main antenna I use, which causes no problems like this, is a similar multiband doublet orientated at 90 degrees to the first one.

AT first I thought this was an antenna or local interference problem, now I am beginning to think it is something in the TS-830.

Any ideas or suggestions about solving this problem would be gratefully accepted.

Dave
G3ZQH
Nottingham, England

[Non-text portions of this message have been removed]

7349. RE: [TS-520_820_530_830] Re: Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 16:56:33 UTC
From: Jack Rubin
Topic: 7340 Message: 7349

>
> Great idea! I don't have the proper antenna to be net
> control, but I'll certainly check in and be a participant.
> FYI, antenna here is a horizontal loop under the eaves of the
> roof - 10 feet off the ground. From my QTH near San Antonio,
> I made it to Buffalo, NY; NE Minnesota, near San Diego, and
> South Carolina on 40m last night after midnight.
> Bad condx, but was lucky before the band really went south.
>
> 73 de Jeff, KF5KWO
> Helotes, TX

Jeff,

Please provide more details on your antenna - ground plane, feeds, etc.
Sounds like a great idea!

73
Jack
KC9HVE

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.4.5/322 - Release Date: 4/22/2006

7350. TS 520 And TS 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 20:41:50 UTC
From: Bill Hall
Topic: 7350 Message: 7350

I have a Kenwood TS520 and a Kenwood TS820. These rigs look good and work good. Both were retubed and aligned last year. I am offering both for $ 200.00 each plus shipping. In you are interested you can contact me by email or land line 830 833 2854.

73's

Bill KZ5CW

7351. Would like to purchase a TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-23 23:33:16 UTC
From: belbert2002
Topic: 7351 Message: 7351

I would like to purchase a TS-830S with the CW filter and a Kenwood mike. I am willing to pay a reasonable price for a working radio. Kindly communicate via email to k6zb@....

Thanks and 73, Bruce K6ZB

7352. Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 00:26:37 UTC
From: Bob Cunnings
Topic: 6800 Message: 7352

Charles,

Thanks for taking the time to relate all of this good information.The advice
to use a digital camera during the teardown sure makes a lot of sense. So
now I'll roll up my sleeves and go to work - yes, the knobs need cleaning
too!

Bob NW8L

On 4/23/06, Charles Mortimer <mortimer@...> wrote:
>
> hallo bob and people who suffer lumpy vfo
> lumpy tuning knobs
> this is a sign of dried up grease which has got hard
> what this means is taking the whole v.f.o out as a unit which
> includes
> the gear train if you take of the gear train be careful of the pre
> loaded springs they get lost easy the idea of these small springs is
> to
> pre lode the 2 back to back gears the idea of this is to stop backlash
> in
> the v.f.o. tuning knob and when reassembling pre lode the gear by a
> quarter of a turn when meshing it with the smaller gear what this does
> takes the slop out of the gear train the hardest part is realigning all
> your analogue dials (its better if you can clean the gear train with
> all
> the dials left on) by using a pressure pack cleaner a rather fiddley
>
> process when done do not use thick grease use thin house hold oil the
> type that is used for sewing machines (not thick vehicle oil)
> then oil the gear train by using a syringe from the drug store the
> aim
> is to get a coating on the bearing surfaces and between the preloaded
> gears
> also on the cogs work this in by running the v.f.o. dial knob a few
> times
> back to both end stops DO NOT GET ANY CLEANING AGENT INSIDE THE V.F.O.
> if you turn the spindle with no knob on it will feel slightly lumpy that
>
> will disappear when the v.f.o. knob has been finally fitted all this
> sounds
> slightly complicated (it isn't) approach the job methodically
> first remove all the knobs of the front panel remove the for panel under
>
> the v.f.o. dial and lift of Allen key required for this remove the
> screws from the sides of the front panel and pull of (this is a good

> time
> to repair those dial lights) also its time to clean all those knobs and
>
> front panel warm water and washing up liquid and a small nail brush
> and if those knobs have years of gung on them a cup of warm water 2
> teaspoons of bleach and soak them for a day or so no longer when clean
> give them a final clean with nail brush and a bar of house hold soap
> do not use bleach on front panel just warm water and soap
> put in a warm place to dry when dry good time to touch up the front
> panel and rim with appropriate paint with the smallest brush artist
> really fine one letters and numbers on the front panel a good time
> to
> sort them out they do get worn away a good free standing
> magnifying
> glass (myself I use a jewelers loupe) especially with eyes like
> mine
> they where good once if you don't think you can do this lettering leave
> it
> alone this touch up will make or brake the front panel its very easy to
>
> stuff it up (((practice on something first)))
> back to removing the v.f.o. digital camera is the order of the day
> take pictures of how it comes to bits note the position of the dials
> mark them with a small dot of paint and take a picture make a reference
>
> of everything you do with the camera if you are feeling confident
> with
> your cleaning there is one other job around the vfo .....take the metal
> casing of the vfo a couple of screws on the back and inside at the back
> of
> the variable capacitor there is a small brass wiper which gives trouble
> de ox this wiper do not touch anything else in there do not touch any
> components if you can help it right you have done that now put the
> dam thing back together using the diagram in your user manual and
>
> your memory and mot of all those digital pictures ((you did
> take
> some)) OK now I must get to my ft301which is suffering lumpy v.f.o.
> dial and requires a re spray and a good clean and partial letters to
> be
> replaced in other words a total cosmetic job and re aligning
> this procedure is taken on about 3 Ts 820 that I have been involved in
> something else that might help in setting up those analogue dials a
> frequency counter
> or a near by receiver is a help
> all this is from my experience with ts820 / 820s ft 301 and
> ft 101 have fun I did and still am
> Charles vk6ycj vp8bgx g1fak gj1fak
>
>

>
> ----- Original Message -----
> From: "bob_cunnings" <bob.cunnings@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, April 23, 2006 12:54 AM
> Subject: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)
>
>
> > Hello,
> >
> > I have the same problem with a TS-520S, and see that you message never
> > received a response, at least not on the list...
> >
> > To me the tuning feels "grainy" or "bumpy" as the knob is turned, but
> > if I push "in" hard enough on the knob/shaft then it seems to be ok.
> > Some backlash has developed at one point of rotation.
> >
> > Has anyone dealt with this and have advice/observations to offer on
> > possible remedies? Is a teardown and fixup of the vfo geartrain etc.
> > usually enough to do the job?? Or is the problem typically a result of
> > irreversibly worn parts, making a vfo transplant the better option?
> >
> > I've been spoiled by the silky smooth tuning of my even older TS-520
> > and would like to get this one up to snuff.
> >
> > Thanks,
> >
> > Bob NW8L
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Jim Adams"
> > <jadams9103@...> wrote:
> >>
> >> Hi everyone. I am a new member to the group. I have had my General for
> >> about 4 months. I was a novice for a year in 1954 so it's been awhile.
> >> My rig is an old but loved TS-520SE which has developed indents (feels
> >> like a flat ball bearing) when rotating the tuning knob. Has this been
> >> discussed before and can anyone help identify the cause and possible
> >> fix? It still tunes OK, but I have noticed that if on a 'flat spot'
> >> the dial will drift to either side. Thanks for your help.
> >>
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >

> >
> >
> >
> >
>
>
>
> SPONSORED LINKS
> Ham radio<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=H
obby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft
> hobby<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hob
by+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby
> and craft supply<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio
&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
> ------------------------------
> YAHOO! GROUPS LINKS
>
>
> - Visit your group
"TS-520_820_530_830<http://groups.yahoo.com/group/TS-520_820_530_830>"
> on the web.
>
> - To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe@yahoogroup
s.com?subject=Unsubscribe>
>
> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ------------------------------
>

[Non-text portions of this message have been removed]

7353. kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 01:40:16 UTC
From: Ravenswood
Topic: 7353 Message: 7353

I can get 130 watts or so on CW, but peak around 50 for voice. Is there a way to get more power in voice SSB, assuming all is well w/the rig?

All of my gear & accessories will take up to 200 watts (tuner, etc.)

Is there such a thing as a 100 watt amp? I'd like to get the full power of output in voice without having to buy another transceiver.

Any ideas?

73, Frank K2NCC

7354. Re: [TS-520_820_530_830] kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 01:53:44 UTC
From: Norm Fusaro
Topic: 7353 Message: 7354

Frank,
are you reading your output on a peak reading meter or just average reading?

What is the ALC and IP reading on your voice peaks?

Are you looking at your SSB sigs on a scope -- SM-220?

Do you have compression on when reading the TX power out?

Norm, W3IZ

Ravenswood <evokefrank@...> wrote:
I can get 130 watts or so on CW, but peak around 50 for voice. Is
there a way to get more power in voice SSB, assuming all is well w/the
rig?

All of my gear & accessories will take up to 200 watts (tuner, etc.)

Is there such a thing as a 100 watt amp? I'd like to get the full
power of output in voice without having to buy another transceiver.

Any ideas?

73, Frank K2NCC

Yahoo! Groups Links

[Non-text portions of this message have been removed]

7355. Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 02:20:35 UTC
From: Ravenswood
Topic: 7353 Message: 7355

--- In TS-520_820_530_830@yahoogroups.com, Norm Fusaro <w3iz@...> wrote:
>
> are you reading your output on a peak reading meter

Readings are on the AT-230 Antenna Tuner . If I crank up the mic carrier and scream into the mic, I can get it further than 50watts, but it's not the way I'd want to operate, of course.

ALC peaks at the edge of the ALC gauge. MIC/CAR is adjusted to that point.

> What is the ALC and IP reading on your voice peaks?

ALC reading is at the edge of the ALC meter readings (if I understand you correctly.) This is what, if I understand correctly, is recommended by the manual, to avoid overdriving or overmodulation.

> Are you looking at your SSB sigs on a scope -- SM-220?

Nope, I have a 'scope (Instek GOS-620FG), but no idea how to use it w/the rig.

> Do you have compression on when reading the TX power out?

Compression is not a word in my Kenwood manual that I can find. Do you mean AGC or Noise Blanker? Either of these hasn't made a difference.

According to all Kenwood specifications, the radio is operating as it should be. I'm just looking to get a little more power out on SSB.

Thanks for your input, I hope what I've said is what you've asked. If not, please clarify, keeping in mind, I'm a noob. 8)

73, Frank K2NCC

7356. Re: Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 13:12:25 UTC
From: Jeff
Topic: 7340 Message: 7356

Jack,

My primary antenna right now is a wire loop under the eaves of my roof, using little white hooks I bought at Home Depot. I think they originally were for hanging small plants, but here we are...The wire is #14 solid insulated. I'm using 300 ohm twin lead from Radio Shack (the thicker, black one; not the thinner brown one). I'm using an MFJ-941B tuner, and it does a great job matching the antenna for 80, 40, 20, 15, and 10. Almost 1:1 everywhere. I do have an MFJ Magnetic Loop for 30 through 10, but I need to get a new control box for it. But for now, the wire loop is working out great! Not sure exactly how long it is, possibly around 200 feet or so. It looks like it used up around half of the 500-ft spool of wire. One day I'll have to get out there and measure it.

Best of luck, Jack. Hope you try it out!

73 de Jeff, KF5KWO

--- In TS-520_820_530_830@yahoogroups.com, "Jack Rubin" <jack.rubin@...> wrote:

>
> Jeff,
>
> Please provide more details on your antenna - ground plane, feeds, etc.
> Sounds like a great idea!
>
> 73
> Jack
> KC9HVE
>

7357. Re: Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 15:22:09 UTC
From: KEN (G3SDW)
Topic: 7340 Message: 7357

--- In TS-520_820_530_830@yahoogroups.com, "Jeff" <kf5kwo@...> wrote:
>HI JEFF
JUST READING THE DETAILS OF YOUR ANTENNA SO ITHOUGHT I WOULD LET YOU
KNOW ABOUT MINE.
IT IS VERY MUCH THE SAME EXCEPT I LIVE IN A TWO STORY APPARTMENT
BLOCK ON THE GROUND FLOOR.I HAVE A LOOP ABOUT 140ft UP AT 28ft AND
IT IS TUCKED INTO THE CLIPS JUST INSIDE THE PLASTIC GUTTER AROUND
THE EVES.IT IS FED WITH A 4:1 BALUN INTO 50ohm coax ALSO INTO A
MFJ941E TUNER WHICH GIVES ME GREAT COVERAGE ON ALL BANDS 40-10M.
THIS PROOVES THAT WITH LIMITED SPACE YOU CAN STILL USE OUR
WONDERFULL HOBBY.
BEST 73
KEN
G3SDW
> Jack,
>
> My primary antenna right now is a wire loop under the eaves of my
> roof, using little white hooks I bought at Home Depot. I think they
> originally were for hanging small plants, but here we are...The
wire
> is #14 solid insulated. I'm using 300 ohm twin lead from Radio
Shack
> (the thicker, black one; not the thinner brown one). I'm using an
> MFJ-941B tuner, and it does a great job matching the antenna for
80,
> 40, 20, 15, and 10. Almost 1:1 everywhere. I do have an MFJ
Magnetic
> Loop for 30 through 10, but I need to get a new control box for it.
> But for now, the wire loop is working out great! Not sure exactly
how
> long it is, possibly around 200 feet or so. It looks like it used
up
> around half of the 500-ft spool of wire. One day I'll have to get
out
> there and measure it.
>
> Best of luck, Jack. Hope you try it out!
>
> 73 de Jeff, KF5KWO
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jack Rubin"
> <jack.rubin@> wrote:
>
> >
> > Jeff,

> >
> > Please provide more details on your antenna - ground plane,
feeds, etc.
> > Sounds like a great idea!
> >
> > 73
> > Jack
> > KC9HVE
> >
>

7358. Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 16:49:14 UTC
From: alpyke
Topic: 7302 Message: 7358

Hi All:

I've done some more work on this issue. With the scope I can see the RF signal going into the DRV pin of the final stage. I was tuning at 160m band, just to stay well within the bandwidth of my old analog scope. The amplitude of this signal changes from about 10 to 100V p-p by adjusting the DRIVE control. It peaks at 100V at a particular setting of the DRIVE control. Still no ALC reading on the meter in this case.
a) Does this imply the meter is bad perhaps? Or maore accurately the signal driving it on teh ALC setting, since it works on othe rsettings.
b) Is 100V p-p about right?
c) What is ALC really, in this case, anyway? Is it something other than the amplitude of the signal into the finals?

I continue with the tuning, on the asusmption that it is actually working, and the meter is just defective. I'm able to continue with the rest of the procedure in the manual. In the end however I can only get about 80 W out max power according to my external power meter (going into 50 ohm dummy load).

It also is not stable. For no apparent reason, it seems that the output drifts up and down, on SSB especially, where I get anywhere from 0 to 50 W max out. Not close to the max capabilty. If I go back and retune, the settings might be slightly different, but then even on CW I might only get 10-20 W. Then I wait a while and retune and I can get more, or less. Never over 100, and usually under 50.

Are my finals or drive tube about to die? Is this a typical death of them, to have reduced power out, or do they die completely at once when they go? I have to admit, while I'm an EE, my studies are all solid state, so vacuum tubes are a new animal for me....

Thanks again for the help of the group... - Adrian - KB1NFW.

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Adrian,
>
> More than likely, the suggestions the other hams in the group have
> made will solve your problem. If you still have no ALC, after
> checking for the things previously mentioned, you might want to check
> one other thing - the 12BY7A driver tube. Usually if these are

taken
> care of, they last a long time. But if they're worn out, you can
end
> up with no Drive, and as a result, no ALC. I had this condition
> exist, on both a TS-520S, and a FT-101B I had bought, in college.
In
> both cases, I was trying them out for the first time. I replaced
the
> driver tube in each rig, and they tuned up fine, with plenty of
ALC.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "alpyke" <alpyke@>
> wrote:
> >
> > Hi All:
> >
> > I'm a new member of this group and a new owner of a TS-830S.
I'm
> > having some trouble getting it tuned up, and would really
> appreciate
> > any advice, help, guidance, suggestions etc.
> >
> > The problem is as follows:
> >
> > 1) I purchased a TS-830S off ebay. Prior user says it works.
Who
> > knows...
> > 2) I've used it in receive only for a week or so, and it works
fine.
> > 3) I connected a dummy load (50 ohm) to the output, and tried to
> > tune it up. I've tried at several frequencies, with the same
> result:
> > 4) Following the procedure in the manual, I set the IP to 60
ma.
> > This works no problem. It was set to 70ma from the prior user,
I
> > turned it down slightly with the knob on the back and that works.
> > 5) The next step is to "peak the ALC". Here, when I set up
> > according to the manual, I get nothing on the meter for ALC, and
> > also nothing on the output power meter I have with the dummy
load.
> > (I also tried FYI without the external power meter in the
circuit,
> > only the dummy load, just in case there was a problem with my
power
> > meter. Same result, ALC=0). To check the dummy load, I
> > disconnected the ANT cable from the back of the TS-830, and

> measured
> > 50 ohms on the end of the cable that plugs into the TS-830.
I've
> > also tried adjusting the CAR to both extremes, same result.
> > 6) I can see that the 2 final tubes (6146B's) are each glowing.
> > Also the tube that drives them (can't remember the number off
hand)
> > is glowing.
> > 7) I haven't made any measurements, but I can if anybody knows
> > (precisely) what I should measure. I do not have a VTVM, but I
do
> > have a DMM, and Analog multi-meter and a scope available.
> >
> > Thanks for any suggestions.
> >
> > 73 - Adrian, KB1NFW.
> >
>

7359. Buying Hybrids on ebay review

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 17:43:08 UTC
From: Rene Santos
Topic: 7359 Message: 7359

Hello, in my experience buying hybrids on e-bay, I had the lucky to had found an excellent seller, honest and with enough knowledge about the equipment in order to answer your questions.

The name of this seller in ebay is Dukeshifi. When you see a commentary from him that say museum piece, this statement means that equipment is in amazing conditions, like new, like you made a trip to the past and bought in the 80's. I bought from Ecuador to my address in Miami, the packaging is bulletproof. Buy with confidence.

Rene, HC2SA

Correo Yahoo!
Espacio para todos tus mensajes, antivirus y antispam ¡gratis!
Regístrate ya - http://correo.espanol.yahoo.com/

[Non-text portions of this message have been removed]

7360. Re: [TS-520_820_530_830] Re: Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 19:26:04 UTC
From: Stephen Goldberg
Topic: 7340 Message: 7360

Horizontal loop is a great antenna. I live in the woods and have had a loop up for 5 years. It's about 525 feet around, up about 40 feet running through the trees fed with ladder line at one corner. Work all bands from 160 through 10 with a TS-530s and a tuner. Find it a great DX antenna for the upper bands. Was able to break through the pile-up to the Peter 1 expedition on 17 meters a while back. Good luck with yours.
Steve W4IMF

----- Original Message -----
From: "Jeff" <kf5kwo@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 24, 2006 9:12 AM
Subject: [TS-520_820_530_830] Re: Hybrid Net on HF - Anyone interested ?

> Jack,
>
> My primary antenna right now is a wire loop under the eaves of my
> roof, using little white hooks I bought at Home Depot. I think they
> originally were for hanging small plants, but here we are...The wire
> is #14 solid insulated. I'm using 300 ohm twin lead from Radio Shack
> (the thicker, black one; not the thinner brown one). I'm using an
> MFJ-941B tuner, and it does a great job matching the antenna for 80,
> 40, 20, 15, and 10. Almost 1:1 everywhere. I do have an MFJ Magnetic
> Loop for 30 through 10, but I need to get a new control box for it.
> But for now, the wire loop is working out great! Not sure exactly how
> long it is, possibly around 200 feet or so. It looks like it used up
> around half of the 500-ft spool of wire. One day I'll have to get out
> there and measure it.
>
> Best of luck, Jack. Hope you try it out!
>
> 73 de Jeff, KF5KWO
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jack Rubin"
> <jack.rubin@...> wrote:
>
> >
> > Jeff,
> >
> > Please provide more details on your antenna - ground plane, feeds, etc.
> > Sounds like a great idea!
> >
> > 73
> > Jack
> > KC9HVE

> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.4.5/322 - Release Date: 4/22/06

7361. The Model DD-103 Universal Digital Dial

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 20:08:06 UTC
From: N3DOK
Topic: 7361 Message: 7361

Hi,

In this months ER Electric Radio magazine. is an ad for this device. The manual indicates it will work with Kenwood TS-520 . TS-511 . TS-900.

The Model DD-103 Universal Digital Dial provides accurate digital frequency readout for vintage receivers and transmitters. It has the offsets for many receivers and transmitters stored in permanent memory so it only requires the VFO signal. It is a direct plug-in with all Collins that have a VFO output. A TCXO provides 10Hz accuracy and .5ppm stability. Available as a kit or fully assembled and tested.

http://www.electronicspecialtyproducts.com/

I have no connection to this company. Passing this information along for anyone who might be interested.

Bob N3DOK

[Non-text portions of this message have been removed]

7362. TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 20:46:10 UTC
From: tetrodehead
Topic: 7362 Message: 7362

Hi all,
If I reduce the drive for a local QRP QSO, can this de-tuning of the driver tank circuit harm the driver tube?
Cheers
Dave F4EYK

7363. Re: [TS-520_820_530_830] Re: Hybrid Net on HF - Anyone interested ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 20:49:39 UTC
From: OneG @ The Taj Mahal
Topic: 7340 Message: 7363

Stephen Goldberg wrote:
> Horizontal loop is a great antenna. I live in the woods and have had a loop
> up for 5 years. It's about 525 feet around, up about 40 feet running
> through the trees fed with ladder line at one corner. Work all bands from
> 160 through 10 with a TS-530s and a tuner. Find it a great DX antenna for
> the upper bands. Was able to break through the pile-up to the Peter 1
> expedition on 17 meters a while back. Good luck with yours.
> Steve W4IMF
>
These are some interesting antenna configurations~ I keep hearing about..

I am curious has anyone ever loaded up there Cyclone Fence?

How about hooking to it as a receive antenna..

I am still waiting to take my General test & am really curious..

Recently my receive only went to Hell... Funny it corresponded to me
unhooking the antenna during a shack clean up..:)

Live & Learn~~

K7GNO
Geno
Middleton ID

7364. Re: [TS-520_820_530_830] TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-24 23:12:07 UTC
From: Peter A Markavage
Topic: 7362 Message: 7364

If it's a QRP CW QSO, you can use the ALC control to control the output. De-tuning the driver tank circuit, i.e. tuning it out of resonance, is never a good idea. If you want to control the power output on SSB, add a variable 0 to -10 volt voltage source to the ALC lead. If you're going to operate QRP SSB for a long period of time(days, weeks, months), since the 6146's are in parallel, you can pull one, and just operate with one in the final. You should have no problems on the lower frequencies but it might get a bit touchy about 14 MHz.

Pete, wa2cwa

On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@...>
writes:
Hi all,
If I reduce the drive for a local QRP QSO, can this de-tuning of the driver tank circuit harm the driver tube?
Cheers
Dave F4EYK

[Non-text portions of this message have been removed]

7365. Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 13:57:21 UTC
From: Charles Mortimer
Topic: 6800 Message: 7365

hallo bob
Charles calling
good luck in the lube job if I can help in any way drop me a line
once you get into it its simple .... kinematics of machinery ....
charles and rusty vk6ycj

----- Original Message -----
From: "Bob Cunnings" <bob.cunnings@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 24, 2006 8:26 AM
Subject: Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

> Charles,
>
> Thanks for taking the time to relate all of this good information.The
> advice
> to use a digital camera during the teardown sure makes a lot of sense. So
> now I'll roll up my sleeves and go to work - yes, the knobs need cleaning
> too!
>
> Bob NW8L
>
> On 4/23/06, Charles Mortimer <mortimer@...> wrote:
>>
>> hallo bob and people who suffer lumpy vfo
>> lumpy tuning knobs
>> this is a sign of dried up grease which has got hard
>> what this means is taking the whole v.f.o out as a unit which
>> includes
>> the gear train if you take of the gear train be careful of the pre
>> loaded springs they get lost easy the idea of these small springs is
>> to
>> pre lode the 2 back to back gears the idea of this is to stop backlash
>> in
>> the v.f.o. tuning knob and when reassembling pre lode the gear by a
>> quarter of a turn when meshing it with the smaller gear what this does
>> takes the slop out of the gear train the hardest part is realigning all
>> your analogue dials (its better if you can clean the gear train with
>> all
>> the dials left on) by using a pressure pack cleaner a rather
>> fiddley
>>
>> process when done do not use thick grease use thin house hold oil the
>> type that is used for sewing machines (not thick vehicle oil)
>> then oil the gear train by using a syringe from the drug store the

>> aim
>> is to get a coating on the bearing surfaces and between the preloaded
>> gears
>> also on the cogs work this in by running the v.f.o. dial knob a few
>> times
>> back to both end stops DO NOT GET ANY CLEANING AGENT INSIDE THE V.F.O.
>> if you turn the spindle with no knob on it will feel slightly lumpy
>> that
>>
>> will disappear when the v.f.o. knob has been finally fitted all this
>> sounds
>> slightly complicated (it isn't) approach the job methodically
>> first remove all the knobs of the front panel remove the for panel
>> under
>>
>> the v.f.o. dial and lift of Allen key required for this remove the
>> screws from the sides of the front panel and pull of (this is a good
>> time
>> to repair those dial lights) also its time to clean all those knobs
>> and
>>
>> front panel warm water and washing up liquid and a small nail
>> brush
>> and if those knobs have years of gung on them a cup of warm water 2
>> teaspoons of bleach and soak them for a day or so no longer when clean
>> give them a final clean with nail brush and a bar of house hold soap
>> do not use bleach on front panel just warm water and soap
>> put in a warm place to dry when dry good time to touch up the front
>> panel and rim with appropriate paint with the smallest brush artist
>> really fine one letters and numbers on the front panel a good time
>> to
>> sort them out they do get worn away a good free standing
>> magnifying
>> glass (myself I use a jewelers loupe) especially with eyes like
>> mine
>> they where good once if you don't think you can do this lettering leave
>> it
>> alone this touch up will make or brake the front panel its very easy
>> to
>>
>> stuff it up (((practice on something first)))
>> back to removing the v.f.o. digital camera is the order of the day
>> take pictures of how it comes to bits note the position of the dials
>> mark them with a small dot of paint and take a picture make a
>> reference
>>
>> of everything you do with the camera if you are feeling confident
>> with
>> your cleaning there is one other job around the vfo .....take the metal
>> casing of the vfo a couple of screws on the back and inside at the back

>> of
>> the variable capacitor there is a small brass wiper which gives trouble
>> de ox this wiper do not touch anything else in there do not touch any
>> components if you can help it right you have done that now put the
>> dam thing back together using the diagram in your user manual
>> and
>>
>> your memory and mot of all those digital pictures ((you did
>> take
>> some)) OK now I must get to my ft301which is suffering lumpy v.f.o.
>> dial and requires a re spray and a good clean and partial letters to
>> be
>> replaced in other words a total cosmetic job and re aligning
>> this procedure is taken on about 3 Ts 820 that I have been involved
>> in
>> something else that might help in setting up those analogue dials a
>> frequency counter
>> or a near by receiver is a help
>> all this is from my experience with ts820 / 820s ft 301 and
>> ft 101 have fun I did and still am
>> Charles vk6ycj vp8bgx g1fak gj1fak
>>
>>
>>
>> ----- Original Message -----
>> From: "bob_cunnings" <bob.cunnings@...>
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Sent: Sunday, April 23, 2006 12:54 AM
>> Subject: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)
>>
>>
>> > Hello,
>> >
>> > I have the same problem with a TS-520S, and see that you message never
>> > received a response, at least not on the list...
>> >
>> > To me the tuning feels "grainy" or "bumpy" as the knob is turned, but
>> > if I push "in" hard enough on the knob/shaft then it seems to be ok.
>> > Some backlash has developed at one point of rotation.
>> >
>> > Has anyone dealt with this and have advice/observations to offer on
>> > possible remedies? Is a teardown and fixup of the vfo geartrain etc.
>> > usually enough to do the job?? Or is the problem typically a result of
>> > irreversibly worn parts, making a vfo transplant the better option?
>> >
>> > I've been spoiled by the silky smooth tuning of my even older TS-520
>> > and would like to get this one up to snuff.
>> >
>> > Thanks,
>> >

>> > Bob NW8L
>> >
>> > --- In TS-520_820_530_830@yahoogroups.com, "Jim Adams"
>> > <jadams9103@...> wrote:
>> >>
>> >> Hi everyone. I am a new member to the group. I have had my General for
>> >> about 4 months. I was a novice for a year in 1954 so it's been awhile.
>> >> My rig is an old but loved TS-520SE which has developed indents (feels
>> >> like a flat ball bearing) when rotating the tuning knob. Has this been
>> >> discussed before and can anyone help identify the cause and possible
>> >> fix? It still tunes OK, but I have noticed that if on a 'flat spot'
>> >> the dial will drift to either side. Thanks for your help.
>> >>
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>>
>>
>>
>> SPONSORED LINKS
>> Ham
>> radio<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobb
y+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
>> Craft
>> hobby<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Ho
bby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
>> Hobby
>> and craft
>> supply<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft
+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>>
>> ------------------------------
>> YAHOO! GROUPS LINKS
>>
>>
>> - Visit your group
>> "TS-520_820_530_830<http://groups.yahoo.com/group/TS-520_820_530_830>"
>> on the web.
>>

>> - To unsubscribe from this group, send an email to:
>>
>> TS-520_820_530_830-unsubscribe@yahoogroups.com<TS-520_820_530_830-unsubscribe@yahoogrou
ps.com?subject=Unsubscribe>
>>
>> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service <http://docs.yahoo.com/info/terms/>.
>>
>>
>> ------------------------------
>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

7366. Re: [TS-520_820_530_830] kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 19:04:50 UTC
From: Walt Breining
Topic: 7353 Message: 7366

Frank:
You are getting the full 130 watt peak on SSB. Your meter will not move fast enough to follow the voice peaks. If you had it on a scope, you would be able to se that the peaks go every bit as high as your carrier does on tune up, sometimes a bit higher.

If you whistle a very nice steady tone across your mike, you will find that the meter reads somewhat higher.

Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 23, 2006 8:40 PM
Subject: [TS-520_820_530_830] kenwood 520, more power, MORE power!

> I can get 130 watts or so on CW, but peak around 50 for voice. Is
> there a way to get more power in voice SSB, assuming all is well w/the
> rig?
>
> All of my gear & accessories will take up to 200 watts (tuner, etc.)
>
> Is there such a thing as a 100 watt amp? I'd like to get the full
> power of output in voice without having to buy another transceiver.
>
> Any ideas?
>
> 73, Frank K2NCC
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7367. Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 18:09:59 UTC
From: pjcoombs@frontiernet.net
Topic: 7353 Message: 7367

Frank,

What kind of mic are you "screaming" into? Maybe you're just
not driving the audio circuits properly. Just a guess.

GL, 73
-jay, kb9wwq

>"Ravenswood" evokefrank@...
> Date: Sun Apr 23, 2006 7:20pm(PDT)
>Subject: Re: kenwood 520, more power, MORE power!
>
>--- In TS-520_820_530_830@yahoogroups.com, Norm Fusaro <w3iz@...> wrote:
>>
>> are you reading your output on a peak reading meter
>
>Readings are on the AT-230 Antenna Tuner . If I crank up the mic
>carrier and scream into the mic, I can get it further than 50watts,
>but it's not the way I'd want to operate, of course.
>

7368. Re: [TS-520_820_530_830] TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 19:29:04 UTC
From: Walt Breining
Topic: 7362 Message: 7368

It is a bad idea. It will run the driver stage out of resonance. It can
also cause spurious emissions.

Vy 73, Walt N9WB

----- Original Message -----
From: "tetrodehead" <dave.crooks@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 24, 2006 3:46 PM
Subject: [TS-520_820_530_830] TS-820S Drive control

> Hi all,
> If I reduce the drive for a local QRP QSO, can this de-tuning of the
> driver tank circuit harm the driver tube?
> Cheers
> Dave F4EYK
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7369. Re: [TS-520_820_530_830] TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 19:32:14 UTC
From: Walt Breining
Topic: 7362 Message: 7369

You can also add a resistor in series with the wire that goes to the terminal labeled SG on the final board. 12K will give about 40 w PEP. A switch can be used to bypass it for full power.

Vy 73, Walt N9WB

----- Original Message -----
From: "Peter A Markavage" <pmarkavage@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, April 24, 2006 6:12 PM
Subject: Re: [TS-520_820_530_830] TS-820S Drive control

> If it's a QRP CW QSO, you can use the ALC control to control the output.
> De-tuning the driver tank circuit, i.e. tuning it out of resonance, is
> never a good idea. If you want to control the power output on SSB, add a
> variable 0 to -10 volt voltage source to the ALC lead. If you're going to
> operate QRP SSB for a long period of time(days, weeks, months), since the
> 6146's are in parallel, you can pull one, and just operate with one in
> the final. You should have no problems on the lower frequencies but it
> might get a bit touchy about 14 MHz.
>
> Pete, wa2cwa
>
>
> On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@...>
> writes:
> Hi all,
> If I reduce the drive for a local QRP QSO, can this de-tuning of the
> driver tank circuit harm the driver tube?
> Cheers
> Dave F4EYK
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7370. Re: [TS-520_820_530_830] Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 18:27:40 UTC
From: Bill Richarz
Topic: 7353 Message: 7370

If your antenna tuner is peaking at 50 watts, let me
assure you that you are putting out 100 Watts PEP.
I've got that same tuner and a Bird watt meter with
the PEP measurement on it and it reads 100 watts.
Those older meters without the PEP reading just can't
follow the real power output as they cannot react that
fast.
So quit the hollering into the mike and calm down and
enjoy a SSB QSO knowing you are putting out 100 Watts
PEP, which is about the rating for the radio.

73 de Bill, N4DH

--- pjcoombs@... wrote:

>
> Frank,
>
> What kind of mic are you "screaming" into? Maybe
> you're just
> not driving the audio circuits properly. Just a
> guess.
>
> GL, 73
> -jay, kb9wwq
>
> >"Ravenswood" evokefrank@...
> > Date: Sun Apr 23, 2006 7:20pm(PDT)
> >Subject: Re: kenwood 520, more power, MORE power!
> >
> >--- In TS-520_820_530_830@yahoogroups.com, Norm
> Fusaro <w3iz@...> wrote:
> >>
> >> are you reading your output on a peak reading
> meter
> >
> >Readings are on the AT-230 Antenna Tuner . If I
> crank up the mic
> >carrier and scream into the mic, I can get it
> further than 50watts,
> >but it's not the way I'd want to operate, of
> course.
> >
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7371. Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 18:53:06 UTC
From: Ravenswood
Topic: 7353 Message: 7371

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...>
wrote:
>
> If your antenna tuner is peaking at 50 watts, let me
> assure you that you are putting out 100 Watts PEP.

Okay. I'll buy that, but I still want more and the original question
stands. This rig is rated for 200 watts PEP (with a written max
output of 280 watts). Since it's almost 30 years old, I can't expect
much I guess.

Just trying to squeeze out another 100 watts in SSB and wondered it
there was a way to do so.

Thanks for everyone's input in helping me w/my output!

73, Frank K2NCC

7372. Re: [TS-520_820_530_830] Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 19:43:48 UTC
From: Peter A Markavage
Topic: 7353 Message: 7372

If you're referring to the 200 watts PEP that's listed in the Specifications Page(page 4), that's INPUT power not output power. IP(.250A) times 800 volts = 200 watts input. Unless you have SUPER 6146's, 100 to 120 watts max. output is what you will get. It has nothing to do with the age of the rig. Go to any tube manual and check the plate dissipation specs of the 6146/6146A/6146B/6146W.

You want more power, get a linear. A Heath SB-200 or SB-220 works great with these rigs.

Pete, wa2cwa

On Tue, 25 Apr 2006 18:53:06 -0000 "Ravenswood" <evokefrank@...> writes:
--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...> wrote:
>
> If your antenna tuner is peaking at 50 watts, let me
> assure you that you are putting out 100 Watts PEP.

Okay. I'll buy that, but I still want more and the original question stands. This rig is rated for 200 watts PEP (with a written max output of 280 watts). Since it's almost 30 years old, I can't expect much I guess.

Just trying to squeeze out another 100 watts in SSB and wondered it there was a way to do so.

Thanks for everyone's input in helping me w/my output!

73, Frank K2NCC

[Non-text portions of this message have been removed]

7373. Re: TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 20:28:19 UTC
From: alpyke
Topic: 7362 Message: 7373

Hi Pete:

I have a TS-830S and also have interest in reducing output power in SSB mode. The "ALC control" you refer to. It is the "ALC IN put" on pin 6 of the REMOTE connector into the back? This is a 0-10VDC signal? 0V is max power, or 10V?

Thanks - Adrian, KB1NFW

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> If it's a QRP CW QSO, you can use the ALC control to control the output.
> De-tuning the driver tank circuit, i.e. tuning it out of resonance, is
> never a good idea. If you want to control the power output on SSB, add a
> variable 0 to -10 volt voltage source to the ALC lead. If you're going to
> operate QRP SSB for a long period of time(days, weeks, months), since the
> 6146's are in parallel, you can pull one, and just operate with one in
> the final. You should have no problems on the lower frequencies but it
> might get a bit touchy about 14 MHz.
>
> Pete, wa2cwa
>
>
> On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@...>
> writes:
> Hi all,
> If I reduce the drive for a local QRP QSO, can this de-tuning of the
> driver tank circuit harm the driver tube?
> Cheers
> Dave F4EYK
>
> [Non-text portions of this message have been removed]
>

7374. Re: [TS-520_820_530_830] Re: TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 21:52:26 UTC
From: Peter A Markavage
Topic: 7362 Message: 7374

It's 0 volts to -10 volts with 0 volts being max. output. A simple
circuit is to use a 9 volt battery with a pot.
Go to the "Files" Section we have here under this group.
See, Under Mods:
Use ALC input to 'force' QRP operation.jpg

And for those that don't want to do the "force" above, from my message
yesterday, let me add a correction. I was doing too many things when I
typed it:
I had to go back and read the message. "Actually, not pull the tube, just
pull the plate cap off one 6146 since you're correct, the filaments are
in series. Or, if you plan on long term, pull the tube and put a 6 volt
lamp of sufficient current rating between pins 2 and 7. Or, put a paper
clip between pins 2 and 7 and put in a 12 volt 6146 (i.e. 6883)." The
"force" method is a lot cleaner and saves having to open up the rig.

Pete, wa2cwa

On Tue, 25 Apr 2006 20:28:19 -0000 "alpyke" <alpyke@...> writes:
Hi Pete:

I have a TS-830S and also have interest in reducing output power in
SSB mode. The "ALC control" you refer to. It is the "ALC IN put"
on pin 6 of the REMOTE connector into the back? This is a 0-10VDC
signal? 0V is max power, or 10V?

Thanks - Adrian, KB1NFW

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> If it's a QRP CW QSO, you can use the ALC control to control the
output.
> De-tuning the driver tank circuit, i.e. tuning it out of
resonance, is
> never a good idea. If you want to control the power output on SSB,
add a
> variable 0 to -10 volt voltage source to the ALC lead. If you're
going to
> operate QRP SSB for a long period of time(days, weeks, months),
since the
> 6146's are in parallel, you can pull one, and just operate with
one in
> the final. You should have no problems on the lower frequencies
but it
> might get a bit touchy about 14 MHz.

>
> Pete, wa2cwa
>
>
> On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@...>
> writes:
> Hi all,
> If I reduce the drive for a local QRP QSO, can this de-tuning of
the
> driver tank circuit harm the driver tube?
> Cheers
> Dave F4EYK
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

7375. Buying or selling ebay or otherwise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-25 23:34:24 UTC
From: pchapman9202003
Topic: 7375 Message: 7375

I don't think that I have seen this posted in while anywhere, so after all of the ebay discussion and follow-up about packaging, just thought I would throw this out.

If you ship something to someone using an agent for a carrier or if you have bought something from someone who is using an agent for a carrier to send it to you, when it comes to claims, the ownership of the equipment by all legal terminology resides with the agent. This means, using the UPS Store franchise or the Kinko's Fedx Franchise, as examples. If you or the seller do not take the merchandise to a Fedx or UPS genuine company storefront, and the stuff gets busted, assuming correct packaging procedures were followed, you could be SOL completely.

Although I realize that most franchise owners making a profit would not let this happen to you, some that may be in financial straights and about to close the doors would.

7376. Re: TS-820S Drive control / Why not just use the Mic gain...?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 02:57:55 UTC
From: ke9zm
Topic: 7362 Message: 7376

Maybe someone can correct me on this. But the easiest way to power down a SSB radio is to reduce the Mic gain. I have a bunch of radios with a monitor circuit. To me, reducing the Mic gain does not diminish the audio quality but can reduce the SSB power out significantly. This seems easier than anthing I have seen described to accomplish QRP. Am I wrong on this?

Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> It's 0 volts to -10 volts with 0 volts being max. output. A simple
> circuit is to use a 9 volt battery with a pot.
> Go to the "Files" Section we have here under this group.
> See, Under Mods:
> Use ALC input to 'force' QRP operation.jpg
>
> And for those that don't want to do the "force" above, from my message
> yesterday, let me add a correction. I was doing too many things when I
> typed it:
> I had to go back and read the message. "Actually, not pull the tube, just
> pull the plate cap off one 6146 since you're correct, the filaments are
> in series. Or, if you plan on long term, pull the tube and put a 6 volt
> lamp of sufficient current rating between pins 2 and 7. Or, put a paper
> clip between pins 2 and 7 and put in a 12 volt 6146 (i.e. 6883)." The
> "force" method is a lot cleaner and saves having to open up the rig.
>
> Pete, wa2cwa
>
>
>
> On Tue, 25 Apr 2006 20:28:19 -0000 "alpyke" <alpyke@...> writes:
> Hi Pete:
>
> I have a TS-830S and also have interest in reducing output power in

> SSB mode. The "ALC control" you refer to. It is the "ALC IN put"
> on pin 6 of the REMOTE connector into the back? This is a 0-10VDC
> signal? 0V is max power, or 10V?
>
> Thanks - Adrian, KB1NFW
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > If it's a QRP CW QSO, you can use the ALC control to control the
> output.
> > De-tuning the driver tank circuit, i.e. tuning it out of
> resonance, is
> > never a good idea. If you want to control the power output on
SSB,
> add a
> > variable 0 to -10 volt voltage source to the ALC lead. If you're
> going to
> > operate QRP SSB for a long period of time(days, weeks, months),
> since the
> > 6146's are in parallel, you can pull one, and just operate with
> one in
> > the final. You should have no problems on the lower frequencies
> but it
> > might get a bit touchy about 14 MHz.
> >
> > Pete, wa2cwa
> >
> >
> > On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@>
> > writes:
> > Hi all,
> > If I reduce the drive for a local QRP QSO, can this de-tuning of
> the
> > driver tank circuit harm the driver tube?
> > Cheers
> > Dave F4EYK
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>

7377. Re: [TS-520_820_530_830] Re: TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 02:54:26 UTC
From: gjcollins@cox.net
Topic: 7362 Message: 7377

Pete,

When the TS-820 first came out, Kenwood sold a "Novice" adapter (it's mentioned in my owners manual). It was plugged in in place of one of the 6146s. Was that just to complete the filament circuit and provide the needed voltage drop for the remaining tube, or was there more that it did?

Thanks,

George, KC1V
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, April 25, 2006 5:52 PM
Subject: Re: [TS-520_820_530_830] Re: TS-820S Drive control

It's 0 volts to -10 volts with 0 volts being max. output. A simple
circuit is to use a 9 volt battery with a pot.
Go to the "Files" Section we have here under this group.
See, Under Mods:
Use ALC input to 'force' QRP operation.jpg

And for those that don't want to do the "force" above, from my message yesterday, let me add a correction. I was doing too many things when I typed it:
I had to go back and read the message. "Actually, not pull the tube, just pull the plate cap off one 6146 since you're correct, the filaments are in series. Or, if you plan on long term, pull the tube and put a 6 volt lamp of sufficient current rating between pins 2 and 7. Or, put a paper clip between pins 2 and 7 and put in a 12 volt 6146 (i.e. 6883)." The "force" method is a lot cleaner and saves having to open up the rig.

Pete, wa2cwa

On Tue, 25 Apr 2006 20:28:19 -0000 "alpyke" <alpyke@...> writes:
Hi Pete:

I have a TS-830S and also have interest in reducing output power in SSB mode. The "ALC control" you refer to. It is the "ALC IN put" on pin 6 of the REMOTE connector into the back? This is a 0-10VDC signal? 0V is max power, or 10V?

Thanks - Adrian, KB1NFW

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>

> If it's a QRP CW QSO, you can use the ALC control to control the
output.
> De-tuning the driver tank circuit, i.e. tuning it out of
resonance, is
> never a good idea. If you want to control the power output on SSB,
add a
> variable 0 to -10 volt voltage source to the ALC lead. If you're
going to
> operate QRP SSB for a long period of time(days, weeks, months),
since the
> 6146's are in parallel, you can pull one, and just operate with
one in
> the final. You should have no problems on the lower frequencies
but it
> might get a bit touchy about 14 MHz.
>
> Pete, wa2cwa
>
>
> On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@...>
> writes:
> Hi all,
> If I reduce the drive for a local QRP QSO, can this de-tuning of
the
> driver tank circuit harm the driver tube?
> Cheers
> Dave F4EYK
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.4.6/324 - Release Date: 4/25/2006

[Non-text portions of this message have been removed]

7378. Re: Buying or selling ebay or otherwise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 03:15:51 UTC
From: ke9zm
Topic: 7375 Message: 7378

The issue with "damaged goods" due to shipping is way different in the case of these Hybrids. For example, one of the folks on a local repeater shipped his FT1000D (worth about $2500) to AES for some minor repairs. The FT1000D weights about 50 pounds. The shipper damaged the radio and AES confirmed this. The radio was insured, a claim was filed, investigated, and UPS paid to AES to fix the damaged radio.

All fine and good. But these Hybrids are a different matter. Given their age, they are out of the mainstream and hard to find any professional to service them or find parts per a legal claim that a shipper would pay off on.

Some shippers may deem the Hybrid "wothless". These radios are more in the realm of collectors than folks who want a mainstream ham radio to operate. The hybrids are worth something to us in this group but an objective regular person would consider them "boat anchors" of little or no value.

Bottom line, I thinks its "our" (not the shippers) responsibility to get these 35-45 pound radios through the mail with adequate education about packing to the seller.

Eveyone I bought a Hybrid from packed it very well. My story posted on this group previously was about my TS-830S which arrived with a puncture through the outer box, through the peanuts, through the inner box, and then through a few layers of bubble wrap.

If that puncture went throug the front panel of the radio what chance would I have with a claim to a shipper? What chance would I ever have of evey getting the TS-830s fixed? Beter to be proactive with the seller than file a claim with the shipper.

Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003" <p_chap@...> wrote:
>
> I don't think that I have seen this posted in while anywhere, so after
> all of the ebay discussion and follow-up about packaging, just thought
> I would throw this out.
>
> If you ship something to someone using an agent for a carrier or if you
> have bought something from someone who is using an agent for a

carrier
> to send it to you, when it comes to claims, the ownership of the
> equipment by all legal terminology resides with the agent. This
means,
> using the UPS Store franchise or the Kinko's Fedx Franchise, as
> examples. If you or the seller do not take the merchandise to a
Fedx or
> UPS genuine company storefront, and the stuff gets busted,
assuming
> correct packaging procedures were followed, you could be SOL
completely.
>
> Although I realize that most franchise owners making a profit
would not
> let this happen to you, some that may be in financial straights
and
> about to close the doors would.
>

7379. What in the silver box (VFO) ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 03:22:00 UTC
From: ke9zm
Topic: 7379 Message: 7379

I have read a bunch of posts here about springs, back contacts, and all sort of mysterious things inside the "silver box".

I looked at mine and its not obvious how to get the over off. There is a cover on the side with 2 screws that are hard to get to.

Wonder if someone could describe what is in the silver box. Or if someone has a picture of a disassembled one if they could sent it to me.

Thanks
Gary / ke9zm

7380. Re: [TS-520_820_530_830] Re: TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 06:48:40 UTC
From: Peter A Markavage
Topic: 7362 Message: 7380

Don't recall if I ever saw one of these plug-in modules. It's not listed as a coded item from Kenwood and the manual says it's available from your dealer. Maybe it was an after-market product from some mom/pop outfit. Roughly a 11 or 12 ohm resistor, at about 7.5 watts, between pins 2 and 7, is probably all that is needed. Also remember that Novices only had CW privileges, so you could use the front panel Carrier Level control when operating CW, to adjust your output power down. In the SSB position, this control won't work for controlling output.

Peet, wa2cwa

On Tue, 25 Apr 2006 22:54:26 -0400 <gjcollins@...> writes:
Pete,

When the TS-820 first came out, Kenwood sold a "Novice" adapter (it's mentioned in my owners manual). It was plugged in in place of one of the 6146s. Was that just to complete the filament circuit and provide the needed voltage drop for the remaining tube, or was there more that it did?

Thanks,

George, KC1V
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, April 25, 2006 5:52 PM
Subject: Re: [TS-520_820_530_830] Re: TS-820S Drive control

It's 0 volts to -10 volts with 0 volts being max. output. A simple circuit is to use a 9 volt battery with a pot.
Go to the "Files" Section we have here under this group.
See, Under Mods:
Use ALC input to 'force' QRP operation.jpg

And for those that don't want to do the "force" above, from my message yesterday, let me add a correction. I was doing too many things when I typed it:
I had to go back and read the message. "Actually, not pull the tube, just
pull the plate cap off one 6146 since you're correct, the filaments are in series. Or, if you plan on long term, pull the tube and put a 6 volt lamp of sufficient current rating between pins 2 and 7. Or, put a paper clip between pins 2 and 7 and put in a 12 volt 6146 (i.e. 6883)." The "force" method is a lot cleaner and saves having to open up the rig.

Pete, wa2cwa

On Tue, 25 Apr 2006 20:28:19 -0000 "alpyke" <alpyke@...> writes:
Hi Pete:

I have a TS-830S and also have interest in reducing output power in SSB mode. The "ALC control" you refer to. It is the "ALC IN put" on pin 6 of the REMOTE connector into the back? This is a 0-10VDC signal? 0V is max power, or 10V?

Thanks - Adrian, KB1NFW

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> If it's a QRP CW QSO, you can use the ALC control to control the output.
> De-tuning the driver tank circuit, i.e. tuning it out of resonance, is
> never a good idea. If you want to control the power output on SSB, add a
> variable 0 to -10 volt voltage source to the ALC lead. If you're going to
> operate QRP SSB for a long period of time(days, weeks, months), since the
> 6146's are in parallel, you can pull one, and just operate with one in
> the final. You should have no problems on the lower frequencies but it
> might get a bit touchy about 14 MHz.
>
> Pete, wa2cwa
>
>
> On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@...>
> writes:
> Hi all,
> If I reduce the drive for a local QRP QSO, can this de-tuning of the
> driver tank circuit harm the driver tube?
> Cheers
> Dave F4EYK
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

7381. Re: [TS-520_820_530_830] Re: TS-820S Drive control / Why not just use the Mic gain...?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 06:56:48 UTC
From: Peter A Markavage
Topic: 7362 Message: 7381

Sure, you can reduce the mike gain, you can whisper into the mike, put the mike 2 feet away from you, etc. but unless you can talk in a manner similar to a constant tone, you're really not reducing your power output. Any inflection in your voice, noise, etc. will kick the power up. You would have no control over your power output. A localized monitor circuit is really no indication how well you sound to the guy at the other end of the contact.

Pete, wa2cwa

On Wed, 26 Apr 2006 02:57:55 -0000 "ke9zm" <ke9zm@...> writes:
Maybe someone can correct me on this. But the easiest way to power down a SSB radio is to reduce the Mic gain. I have a bunch of radios with a monitor circuit. To me, reducing the Mic gain does not diminish the audio quality but can reduce the SSB power out significantly. This seems easier than anthing I have seen described to accomplish QRP. Am I wrong on this?

Gary / ke9zm

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> It's 0 volts to -10 volts with 0 volts being max. output. A simple
> circuit is to use a 9 volt battery with a pot.
> Go to the "Files" Section we have here under this group.
> See, Under Mods:
> Use ALC input to 'force' QRP operation.jpg
>
> And for those that don't want to do the "force" above, from my message
> yesterday, let me add a correction. I was doing too many things when I
> typed it:
> I had to go back and read the message. "Actually, not pull the tube, just
> pull the plate cap off one 6146 since you're correct, the filaments are
> in series. Or, if you plan on long term, pull the tube and put a 6 volt
> lamp of sufficient current rating between pins 2 and 7. Or, put a paper
> clip between pins 2 and 7 and put in a 12 volt 6146 (i.e. 6883)." The
> "force" method is a lot cleaner and saves having to open up the

rig.
>
> Pete, wa2cwa
>
>
>
> On Tue, 25 Apr 2006 20:28:19 -0000 "alpyke" <alpyke@...> writes:
> Hi Pete:
>
> I have a TS-830S and also have interest in reducing output power
in
> SSB mode. The "ALC control" you refer to. It is the "ALC IN put"
> on pin 6 of the REMOTE connector into the back? This is a 0-10VDC
> signal? 0V is max power, or 10V?
>
> Thanks - Adrian, KB1NFW
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > If it's a QRP CW QSO, you can use the ALC control to control the
> output.
> > De-tuning the driver tank circuit, i.e. tuning it out of
> resonance, is
> > never a good idea. If you want to control the power output on
SSB,
> add a
> > variable 0 to -10 volt voltage source to the ALC lead. If you're
> going to
> > operate QRP SSB for a long period of time(days, weeks, months),
> since the
> > 6146's are in parallel, you can pull one, and just operate with
> one in
> > the final. You should have no problems on the lower frequencies
> but it
> > might get a bit touchy about 14 MHz.
> >
> > Pete, wa2cwa
> >
> >
> > On Mon, 24 Apr 2006 20:46:10 -0000 "tetrodehead" <dave.crooks@>
> > writes:
> > Hi all,
> > If I reduce the drive for a local QRP QSO, can this de-tuning of
> the
> > driver tank circuit harm the driver tube?
> > Cheers
> > Dave F4EYK
> >
> > [Non-text portions of this message have been removed]

> >
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7382. Re: [TS-520_820_530_830] Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 07:05:33 UTC
From: Peter A Markavage
Topic: 7353 Message: 7382

In researching another query, I see where you got that 280 watts from. Frank said "This rig is rated for 200 watts PEP (with a written max output of 280 watts)" The 280 watts you refer to is listed as the "Power Requirements" on transmit. That's the maximum power that could be drawn from the AC line while in transmit. Has nothing to do with RF output power.

Pete, wa2cwa

On Tue, 25 Apr 2006 18:53:06 -0000 "Ravenswood" <evokefrank@...> writes:
--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...> wrote:
>
> If your antenna tuner is peaking at 50 watts, let me
> assure you that you are putting out 100 Watts PEP.

Okay. I'll buy that, but I still want more and the original question stands. This rig is rated for 200 watts PEP (with a written max output of 280 watts). Since it's almost 30 years old, I can't expect much I guess.

Just trying to squeeze out another 100 watts in SSB and wondered it there was a way to do so.

Thanks for everyone's input in helping me w/my output!

73, Frank K2NCC

[Non-text portions of this message have been removed]

7383. Re: [TS-520_820_530_830] TS-820S Drive control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 11:24:01 UTC
From: Dave and Loraine
Topic: 7362 Message: 7383

Thanks Walt.
The drive control looked inviting but I'll reconnect the -9v ALC pot.
Cheers
Dave F4EYK

7384. 6146B replacements

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 15:36:44 UTC
From: alpyke
Topic: 7384 Message: 7384

Anybody have any words of wisdom regarding 6146B replacements. I've heard to stay away from the Chinese copies, but other than that are all manufacturers equal? Specifically, I see available from a variety of sources, Raytheon, Sylvania, GE and Golden Dragon. Also is the 6146W a valid replacement?

Any recommendations for a reliable source of good, relatively competitively priced tubes?

Thanks - Adrian, KB1NFW

7385. 6146B replacements

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 15:37:04 UTC
From: alpyke
Topic: 7384 Message: 7385

Anybody have any words of wisdom regarding 6146B replacements. I've heard to stay away from the Chinese copies, but other than that are all manufacturers equal? Specifically, I see available from a variety of sources, Raytheon, Sylvania, GE and Golden Dragon. Also is the 6146W a valid replacement?

Any recommendations for a reliable source of good, relatively competitively priced tubes?

Thanks - Adrian, KB1NFW

7386. Re: [TS-520_820_530_830] 6146B replacements

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 20:13:06 UTC
From: David S Lund (KB5DRJ)
Topic: 7384 Message: 7386

> Anybody have any words of wisdom regarding 6146B replacements. I've
> heard to stay away from the Chinese copies, but other than that are
> all manufacturers equal? Specifically, I see available from a variety
> of sources, Raytheon, Sylvania, GE and Golden Dragon. Also is the
> 6146W a valid replacement?

I bought a pair of 6146W's from K5SVC on eBay for $15.00 each NOS. They are GE JAN 6146W tube dated 4/87 (6146B equivalant). I've had no problem whatsoever with them and they came well packed in boxes. Definitly not the Chinese tubes. :)

David
KB5DRJ

7387. Re: Buying or selling ebay or otherwise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 21:31:09 UTC
From: pchapman9202003
Topic: 7375 Message: 7387

I agree with you. The point I was alluding to was about going to the UPS Store or Kinko's to ship something versus going to the Fedx or UPS terminal. There have been articles in the last 2 PC Magazine issues regarding a $1200 ebay sale for an antique guitar amp, and how the buyer was out his money for several months, did not get it back and we he finally recovered the goods several months later, it was worthless from the damage. I could be off some on the numbers, but that is how the story went.

--- In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>
> The issue with "damaged goods" due to shipping is way different in
> the case of these Hybrids. For example, one of the folks on a
local
> repeater shipped his FT1000D (worth about $2500) to AES for some
> minor repairs. The FT1000D weights about 50 pounds. The shipper
> damaged the radio and AES confirmed this. The radio was insured,
a
> claim was filed, investigated, and UPS paid to AES to fix the
> damaged radio.
>
> All fine and good. But these Hybrids are a different matter.
Given
> their age, they are out of the mainstream and hard to find any
> professional to service them or find parts per a legal claim that
a
> shipper would pay off on.
>
> Some shippers may deem the Hybrid "wothless". These radios are
more
> in the realm of collectors than folks who want a mainstream ham
> radio to operate. The hybrids are worth something to us in this
> group but an objective regular person would consider them "boat
> anchors" of little or no value.
>
> Bottom line, I thinks its "our" (not the shippers) responsibility
to
> get these 35-45 pound radios through the mail with adequate
> education about packing to the seller.
>
> Eveyone I bought a Hybrid from packed it very well. My story
posted
> on this group previously was about my TS-830S which arrived with a
> puncture through the outer box, through the peanuts, through the
> inner box, and then through a few layers of bubble wrap.

>
> If that puncture went throug the front panel of the radio what
> chance would I have with a claim to a shipper? What chance would
I
> ever have of evey getting the TS-830s fixed? Beter to be proactive
> with the seller than file a claim with the shipper.
>
> Gary / ke9zm
>
> --- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
> <p_chap@> wrote:
> >
> > I don't think that I have seen this posted in while anywhere, so
> after
> > all of the ebay discussion and follow-up about packaging, just
> thought
> > I would throw this out.
> >
> > If you ship something to someone using an agent for a carrier or
> if you
> > have bought something from someone who is using an agent for a
> carrier
> > to send it to you, when it comes to claims, the ownership of the
> > equipment by all legal terminology resides with the agent. This
> means,
> > using the UPS Store franchise or the Kinko's Fedx Franchise, as
> > examples. If you or the seller do not take the merchandise to a
> Fedx or
> > UPS genuine company storefront, and the stuff gets busted,
> assuming
> > correct packaging procedures were followed, you could be SOL
> completely.
> >
> > Although I realize that most franchise owners making a profit
> would not
> > let this happen to you, some that may be in financial straights
> and
> > about to close the doors would.
> >
>

7388. TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 22:10:37 UTC
From: george dumond
Topic: 20 Message: 7388

Hello everyone I am a new member of your fine group.
My name is George call sgn. K0GWD.I currently have as
my base station rig a Kenwood TS-530S into a 80M loop
antenna up about 40 ft @ abt. 90 watts.Thru A MFJ 989
tuner.Also have a mc-50 mic. The rig worked great when
I first got it, put out full power on all bands.
Turned it on one day and it would only put out abt 40
watts. I checked the plate voltage and it was abt
400v. Also bad audio reports when prior reports were
excellent audio. All other meter readings during tune
up are normal. Any information would be gratefully
accepted that would cure the old girl.
Thanks George K0GWD

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7389. How to align the frecuency

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 22:34:37 UTC
From: hc2sa
Topic: 7389 Message: 7389

Hi, sorry for my poor english. I have a TS-830S with 4 HZ missaligned,
for example if the signal is en 7060, I hear 0 bits in 7059.6
What kind of aligment I need to do in order to fix this symptom, just
with my ears because I dont have a standar signal generator.

Thanks in advance.
73's
Rene
HC2SA

7390. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-26 23:13:44 UTC
From: Peter A Markavage
Topic: 20 Message: 7390

Check the high voltage power supply. You might have blown one of the
electrolytics. How do you know the 830S is a female?

Pete, wa2cwa

On Wed, 26 Apr 2006 15:10:37 -0700 (PDT) george dumond <dums2@...>
writes:
Hello everyone I am a new member of your fine group.
My name is George call sgn. K0GWD.I currently have as
my base station rig a Kenwood TS-530S into a 80M loop
antenna up about 40 ft @ abt. 90 watts.Thru A MFJ 989
tuner.Also have a mc-50 mic. The rig worked great when
I first got it, put out full power on all bands.
Turned it on one day and it would only put out abt 40
watts. I checked the plate voltage and it was abt
400v. Also bad audio reports when prior reports were
excellent audio. All other meter readings during tune
up are normal. Any information would be gratefully
accepted that would cure the old girl.
Thanks George K0GWD

[Non-text portions of this message have been removed]

7391. Forward Power on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 00:47:12 UTC
From: unifiedcourt
Topic: 7391 Message: 7391

I tune the TS-520 into a dummy load and adjust the load, plate, and drive for max forward power which is about 110 watts. I then set the TS-520 on CW mode and finish tuning to a 1.1 SWR at 100 watts output. The specs say this units max output is 200 watts. Is this a normal output or do I have to replace some tubes.....Ron KB2SQY Thanks.

7392. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 00:59:11 UTC
From: george dumond
Topic: 20 Message: 7392

Well pete its because she's so beautiful!!!!!!!

--- Peter A Markavage <pmarkavage@...> wrote:

> Check the high voltage power supply. You might have
> blown one of the
> electrolytics. How do you know the 830S is a female?
>
> Pete, wa2cwa
>
>
> On Wed, 26 Apr 2006 15:10:37 -0700 (PDT) george
> dumond <dums2@...>
> writes:
> Hello everyone I am a new member of your fine group.
> My name is George call sgn. K0GWD.I currently have
> as
> my base station rig a Kenwood TS-530S into a 80M
> loop
> antenna up about 40 ft @ abt. 90 watts.Thru A MFJ
> 989
> tuner.Also have a mc-50 mic. The rig worked great
> when
> I first got it, put out full power on all bands.
> Turned it on one day and it would only put out abt
> 40
> watts. I checked the plate voltage and it was abt
> 400v. Also bad audio reports when prior reports were
> excellent audio. All other meter readings during
> tune
> up are normal. Any information would be gratefully
> accepted that would cure the old girl.
> Thanks George K0GWD
>
> [Non-text portions of this message have been
> removed]
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7393. Re: [TS-520_820_530_830] Forward Power on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 01:03:01 UTC
From: bob54quam@cs.com
Topic: 7391 Message: 7393

200 watts is the INPUT power of a TS-520. The output will be around 110-120 maximum in cw, although Kenwood recommended limiting plate current to 200 milliamps, which would give an output of perhaps 90 watts.
The peak output in ssb will be higher, and must be read with a peak-reading wattmeter or an oscilloscope, but will be in the range of 120-135 watts, depending on the line voltage and condition of the tubes.
Your 110 watts cw sounds fine. My TS-520S has maximum output in cw of just under 120 watts, and about 135 peak watts out in ssb.
Bob
KI0KM

[Non-text portions of this message have been removed]

7394. low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 01:17:25 UTC
From: Gary
Topic: 7394 Message: 7394

George
Change both caps in the voltage doubler ckt. Plate voltage should
be 800
volts
KC0NPJ Gary

7395. Re: [TS-520_820_530_830] Forward Power on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 01:22:16 UTC
From: Ronald Houle
Topic: 7391 Message: 7395

Thanks for the prompt reply. I feel better now about the output and that
my radio is probably working correctly. ron

On 4/26/06 9:03 PM, "bob54quam@..." <bob54quam@...> wrote:

> 200 watts is the INPUT power of a TS-520. The output will be around 110-120
> maximum in cw, although Kenwood recommended limiting plate current to 200
> milliamps, which would give an output of perhaps 90 watts.
> The peak output in ssb will be higher, and must be read with a peak-reading
> wattmeter or an oscilloscope, but will be in the range of 120-135 watts,
> depending on the line voltage and condition of the tubes.
> Your 110 watts cw sounds fine. My TS-520S has maximum output in cw of just
> under 120 watts, and about 135 peak watts out in ssb.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7396. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 01:38:27 UTC
From: David S Lund (KB5DRJ)
Topic: 20 Message: 7396

My TS-520SE is the real man of the group. :) That built in display is way to girlie. :)

David
KB5DRJ
----- Original Message -----
From: "george dumond" <dums2@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 26, 2006 7:59 PM
Subject: Re: [TS-520_820_530_830] TS-530S

> Well pete its because she's so beautiful!!!!!!!
>

7397. Re: kenwood 520, more power, MORE power!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 02:08:18 UTC
From: Steve
Topic: 7353 Message: 7397

Ah! I see the problem: The TS-520S is rated 280 Watts max AC line input power (120/220 VAC 50/60 Hz) when transmitting, and of that, 200W DC PEP or 160W DC CW *input* to the finals -- an easily overlooked, but important detail!

Note that the RF output will be about 50% of the input power so approx 100W *output* would be expected so it sounds like it's performing to spec, even 30 years later.

73

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@>
> wrote:
> >
> > If your antenna tuner is peaking at 50 watts, let me
> > assure you that you are putting out 100 Watts PEP.
>
> Okay. I'll buy that, but I still want more and the original
question
> stands. This rig is rated for 200 watts PEP (with a written max
> output of 280 watts). Since it's almost 30 years old, I can't
expect
> much I guess.
>
> Just trying to squeeze out another 100 watts in SSB and wondered it
> there was a way to do so.
>
> Thanks for everyone's input in helping me w/my output!
>
> 73, Frank K2NCC
>

7398. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 03:42:43 UTC
From: george dumond
Topic: 20 Message: 7398

Dave you are probably right I refer to things of
beauty as female HI HI HI K0GWD

--- "David S Lund (KB5DRJ)" <kb5drj@...> wrote:

> My TS-520SE is the real man of the group. :) That
> built in display is way to
> girlie. :)
>
> David
> KB5DRJ
> ----- Original Message -----
> From: "george dumond" <dums2@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 26, 2006 7:59 PM
> Subject: Re: [TS-520_820_530_830] TS-530S
>
>
> > Well pete its because she's so beautiful!!!!!!!
> >
>
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7399. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 06:35:36 UTC
From: David S Lund (KB5DRJ)
Topic: 20 Message: 7399

Yikes. You got me there. HI :)

David KB5DRJ

----- Original Message -----
From: "george dumond" <dums2@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 26, 2006 10:42 PM
Subject: Re: [TS-520_820_530_830] TS-530S

> Dave you are probably right I refer to things of
> beauty as female HI HI HI K0GWD
>
>

7400. vintage of the 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 07:59:49 UTC
From: Ravenswood
Topic: 7400 Message: 7400

Any one know of a web-site or have a list of how to identify the mfg date of a TS-520 based upon the serial number (or some other method)?

My rig has a serial number of 140479.

I've searched this repeater and haven't found any other posts regarding this issue. If I find anything, I'll post it.

Thanks and 73, Frank K2NCC

7401. Re: [TS-520_820_530_830] Forward Power on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 12:02:13 UTC
From: Walt Breining
Topic: 7391 Message: 7401

200 W is PEP. Your meter will not read this. Your rig is working fine.
Vy 73, Walt N9WB

----- Original Message -----
From: "unifiedcourt" <hrhoule@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 26, 2006 7:47 PM
Subject: [TS-520_820_530_830] Forward Power on TS-520

> I tune the TS-520 into a dummy load and adjust the load, plate, and
drive for max
> forward power which is about 110 watts. I then set the TS-520 on CW mode
and finish
> tuning to a 1.1 SWR at 100 watts output. The specs say this units max
output is 200
> watts. Is this a normal output or do I have to replace some tubes.....Ron
KB2SQY Thanks.
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

7402. Re: [TS-520_820_530_830] Forward Power on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 15:47:43 UTC
From: Ronald Houle
Topic: 7391 Message: 7402

Thanks Walt....ron

On 4/27/06 8:02 AM, "Walt Breining" <n9wb@...> wrote:

> 200 W is PEP. Your meter will not read this. Your rig is working fine.
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "unifiedcourt" <hrhoule@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, April 26, 2006 7:47 PM
> Subject: [TS-520_820_530_830] Forward Power on TS-520
>
>
>> > I tune the TS-520 into a dummy load and adjust the load, plate, and
> drive for max
>> > forward power which is about 110 watts. I then set the TS-520 on CW mode
> and finish
>> > tuning to a 1.1 SWR at 100 watts output. The specs say this units max
> output is 200
>> > watts. Is this a normal output or do I have to replace some tubes.....Ron
> KB2SQY Thanks.
>> >
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>
>
>
>
> SPONSORED LINKS
>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=

> Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> Hobby and
> craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Cr
> aft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> *
> * To unsubscribe from this group, send an email to:
> * TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> *
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>
>

[Non-text portions of this message have been removed]

7403. ALC circuit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 20:54:03 UTC
From: alpyke
Topic: 7403 Message: 7403

Anyone know how the ALC feedback circuit works in the TS-830S? I trace the signal from the FG signal of the finals to the AF board, then to the IF board, then to the meter (mode switch set to TUNE, meter switch set to ALC). Through it all it is an RF signal at the carrier frequency (if I remember right, ~7.2 MHz). The FG signal at the start is about 20Vp-p amplitude. At the first transistor stage on the AF board it is attenuated and picks up a -9VDC bias, to become a signal oscillating from -13V to -5V but then by the time it gets to the meter (through the other transistor stages of the AF and IF boards), it is of about the same AC/RF amplitude, but 0 VDC biased, and I get no deflection of the meter. Is this signal supposed to be RF by the time it gets to the meter? Is it just that my original 20V p-p is too small to cause an ALC value? What is this meter really displaying? The DC component of the voltage? The meter seems to work on the other settings, so I don't think the meter itself is defective.

Thanks for any help - Adrian, KB1NFW

7404. TS-520 NOVICE OPERATION - 75 WATTS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-27 20:50:02 UTC
From: N3DOK
Topic: 7404 Message: 7404

Hi, I researched the web. I came across a web site
Kenwood Amateur Radio Service Bulletins By Model Number
http://www.qsl.net/bg4aaf/book/kenpic/kenwood.htm It is a wealth of information on Kenwood Amateur equipment.

TS-520 Novice Operation 75 watts.
http://www.qsl.net/bg4aaf/book/kenpic/ASB0002.JPG

I believe the website is BG4AAFs?

73 Bob N3DOK

[Non-text portions of this message have been removed]

7405. Hello To The Group And Thanks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 00:35:02 UTC
From: Ruben
Topic: 7405 Message: 7405

Hi name here is Ruben and I run all Kenwood Equipment. Right now my TS830's is on the way to K4EAA for some work. Many thanks to the people that steered me in his direction. Best 73 to all

7406. "Recent Equipment" article on the TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 03:52:15 UTC
From: Ravenswood
Topic: 7406 Message: 7406

From September 1974 article in QST.

Great four-page article on this gem of a radio.

Since this group is out of storage space, it's been uploaded (until space is needed there or cleared here) to the astaticmicrophones Yahoo group. http://groups.yahoo.com/group/astaticmicrophones/

In the Files section, called: TS-520_QST_SEPT_1974_p44-47.pdf

I've not seen this available anywhere else.

73, Frank K2NCC

7407. CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 07:38:29 UTC
From: Ravenswood
Topic: 7407 Message: 7407

How can I tell if my TS-520 has a CW filter in it without cracking open the case?

73, Frank K2NCC

7408. RFI from Computer Monitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 08:47:42 UTC
From: Ravenswood
Topic: 7408 Message: 7408

The last RFI beast to overcome in my shop; The computer monitor!

In spite of all my research, I've yet to determine a way to eliminate the noise the CRT drives into my rig.

I get a noticeable, almost two S-unit drop in noise, when I turn the monitor off.

Using the poor-man's way to determine RFI sources, I used an AM radio to determine that the interference is coming out of the 'cut out'; the monitor screen.

From what I understand, it's the sweep circuit, since it's coming out of the front of the monitor and not from it's sides or back.

I could shield the monitor case, but for obvious reason, can't do much about covering the glass, the primary source of noise emissions. Blocking the front w/a grounded metal plate does eliminate most of the noise it generates.

I've relocated the monitor in different places and discovered I would have to rotate the entire shop 180 degrees to make any change in RFI. Not something logistically sound for me.

The path of the RFI seems to be via the antenna. I'm sandwiched between the monitor and the antenna, which is just outside the wall to my back (about 15 feet away.) As difficult as it was to find a place to put it, I can't move it.

When the antenna is disconnected from the radio, there is no noise, so the radio (TS-520) is properly shielded. Ferrite chokes everywhere made no difference, as expected.

I asked a "Display Product Engineer" at CTL (a monitor mfg) and didn't get any other recommendations. I did however, convince him to measure what frequencies are coming out of a monitor. The results he gave me was:

"Frequency on Power supply & high voltage scan drive circuit is 45KHz - 57KHz range."

The only idea I could muster would be to attach an in-line antenna filter to eliminate the passing of that frequency range. I'm not up on the physics or electronics enough to know if that would be detrimental in some way, or even possible. Or if such a thing even exists!

The monitor tech thought it was a good concept, but I thought I would get opinions from those that use and repair ham radios.

Any ideas on this or other suggestions? Or am I just going to have to move to an LCD monitor (or will that even make a difference?)

73, Frank K2NCC

7409. Re: [TS-520_820_530_830] RFI from Computer Monitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 12:05:03 UTC
From: Max Harelik
Topic: 7408 Message: 7409

Get Timewave's ANC-4. It's designed precisely for your problem. It's
also effective for powerline noise, pulse noise, etc. It uses a phase
inversion and summing process at input RF fq.
73,
Max, K5OVW

Ravenswood wrote:

> The last RFI beast to overcome in my shop; The computer monitor!
>
> In spite of all my research, I've yet to determine a way to eliminate
> the noise the CRT drives into my rig.
>
> I get a noticeable, almost two S-unit drop in noise, when I turn the
> monitor off.
>
> Using the poor-man's way to determine RFI sources, I used an AM radio
> to determine that the interference is coming out of the 'cut out'; the
> monitor screen.
>
> From what I understand, it's the sweep circuit, since it's coming out
> of the front of the monitor and not from it's sides or back.
>
> I could shield the monitor case, but for obvious reason, can't do much
> about covering the glass, the primary source of noise emissions.
> Blocking the front w/a grounded metal plate does eliminate most of the
> noise it generates.
>
> I've relocated the monitor in different places and discovered I would
> have to rotate the entire shop 180 degrees to make any change in RFI.
> Not something logistically sound for me.
>
> The path of the RFI seems to be via the antenna. I'm sandwiched
> between the monitor and the antenna, which is just outside the wall to
> my back (about 15 feet away.) As difficult as it was to find a place
> to put it, I can't move it.
>
> When the antenna is disconnected from the radio, there is no noise, so
> the radio (TS-520) is properly shielded. Ferrite chokes everywhere
> made no difference, as expected.
>
> I asked a "Display Product Engineer" at CTL (a monitor mfg) and didn't
> get any other recommendations. I did however, convince him to measure
> what frequencies are coming out of a monitor. The results he gave me was:
>

> "Frequency on Power supply & high voltage scan drive circuit is 45KHz
> - 57KHz range."
>
> The only idea I could muster would be to attach an in-line antenna
> filter to eliminate the passing of that frequency range. I'm not up
> on the physics or electronics enough to know if that would be
> detrimental in some way, or even possible. Or if such a thing even
> exists!
>
> The monitor tech thought it was a good concept, but I thought I would
> get opinions from those that use and repair ham radios.
>
> Any ideas on this or other suggestions? Or am I just going to have to
> move to an LCD monitor (or will that even make a difference?)
>
> 73, Frank K2NCC
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+
craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+an
d+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&
w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --

>

[Non-text portions of this message have been removed]

7410. Re: [TS-520_820_530_830] CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 14:57:47 UTC
From: bob54quam@cs.com
Topic: 7407 Message: 7410

Frank,
On my TS-520S, the cw filter is automatically activated in the cw mode. There is no provision to switch off the filter. In the TS520SE, the heater switch is replaced with a cw filter switch, so it can be operated with the filter switched off.
I believe the 520 is the same as the 520S; switch to cw mode and see if you can hear a difference; it should be substantial.
Bob
KI0KM

[Non-text portions of this message have been removed]

7411. Kenwood TS-830S Manufactured from about 1979-1981

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:09:01 UTC
From: N3DOK
Topic: 7411 Message: 7411

Hi, I sent an email to Kenwood USA. My question was about the TS-830S. I wanted to know when was the Kenwood TS-830S manufactured. Here is the reply I just received.

Bob N3DOK

Dear Kenwood Customer:

The TS-830S has been out of production for 25 years, they were made from about 1979 - 1981.

Kenwood no longer services the vintage TS-830S due to age and available parts.

If you need further assistance, please e-mail us again.

Sincerely,

Kenwood Amateur Radio Customer Support

[Non-text portions of this message have been removed]

7412. RE: [TS-520_820_530_830] CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:43:22 UTC
From: Sean.....He's the cat that won't cop out
Topic: 7407 Message: 7412

Not sure you can. I guess if you had a good ear you could tune a signal and listen to it's drop off as you tune away from it's strongest point. Popping off the top case/cover, looking and putting the case back on requires nothing more than a phillips screw driver and maybe ten minutes of your time. You can even leave the rig on it's feet to do it. Nothing to fear.

Best regards,

-Sean
WA2LKV

>From: "Ravenswood" <evokefrank@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] CW Filter?
>Date: Fri, 28 Apr 2006 07:38:29 -0000
>
>How can I tell if my TS-520 has a CW filter in it without cracking
>open the case?
>
>73, Frank K2NCC
>
>
>

7413. RE: [TS-520_820_530_830] CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:48:38 UTC
From: Paul Manuel
Topic: 7407 Message: 7413

The change should be very obvious to anyone when switching in a CW filter,
as they are much narrower than the SSB filter.
73,
Paul K4PDM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7414. Re: [TS-520_820_530_830] CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:48:27 UTC
From: bob54quam@cs.com
Topic: 7407 Message: 7414

Frank
I should have clarified: The difference in sound between ssb and cw will be substantial if you have the cw filter.
Bob
KI0KM

[Non-text portions of this message have been removed]

7415. Re: [TS-520_820_530_830] Kenwood TS-830S Manufactured from about 1979-1981

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:49:45 UTC
From: Richard Harris
Topic: 7411 Message: 7415

Bob,

That's strange - I was sure it was in production later than that.

Incidentally, the technical review of the TS-830 in the RSGB "Radio Communication" magazine was dated July 1982..... Such reviews are always of current equipment, usually soon after introduction.

Maybe Kenwood meant the TS820.

Richard G3OTK

At 11:09 28/04/2006 -0400, you wrote:
>Hi, I sent an email to Kenwood USA. My question was about the TS-830S. I
>wanted to know when was the Kenwood TS-830S manufactured. Here is the
>reply I just received.
>
>Bob N3DOK
>
>----------
>Dear Kenwood Customer:
>
>
>The TS-830S has been out of production for 25 years, they were made from
>about 1979 - 1981.
>
>Kenwood no longer services the vintage TS-830S due to age and available
>parts.
>
>
>
>
>If you need further assistance, please e-mail us again.
>
>Sincerely,
>
>Kenwood Amateur Radio Customer Support
>
>
>[Non-text portions of this message have been removed]
>
>
>

>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>Ham
>radio
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>Hobby
>and craft supply
>
>
>----------
>YAHOO! GROUPS LINKS
> * Visit your group
> "<http://groups.yahoo.com/group/TS-520_820_530_830>TS-520_820_530_830" on
> the web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>
>----------

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom

it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

7416. Re: [TS-520_820_530_830] Kenwood TS-830S Manufactured from about 1979-1981

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:53:44 UTC
From: bob54quam@cs.com
Topic: 7411 Message: 7416

Bob
That is surprising coming from Kenwood, because it is incorrect. The TS-830 first appeared in ads in 1981 and was still advertised in 1987 This would indicate the years of manufacture were 1981-1986 or possibly early 1987. Incidently, The dates for the TS-520S were 1979-1981.
Bob
KI0KM

[Non-text portions of this message have been removed]

7417. Re: [TS-520_820_530_830] Kenwood TS-830S Manufactured from about 1979-1981

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 16:00:37 UTC
From: bob54quam@cs.com
Topic: 7411 Message: 7417

Not my day, I guess! I meant to say the dates of manufacture of the TS-520SE were 1979-81, not the 520s which was 1977-79.
Bob
KI0KM

[Non-text portions of this message have been removed]

7418. (no subject)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 15:57:01 UTC
From: bob54quam@cs.com
Topic: 7418 Message: 7418

The TS-820 was manufactured 1976-1979, when it was replaced by the TS-180
Bob
KI0KM

[Non-text portions of this message have been removed]

7419. TS-830 NB switch modification

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 16:35:41 UTC
From: Joan de vk5kyo
Topic: 7141 Message: 7419

Hello Group

I am not familiar with all the modifications for the TS-830S, and I am hoping one of you can help me with this one.
I had just completed a basic aligningment of the set, when I noticed the NB switch was on. After I turned the NB to the off position, I stumbled across a problem. I later discovered that changing bands, the digital display went dead, but only when 1.8, 18, and 28.0 MHz position is selected, other bands are ok, even 28.5 when pressed the +0.5 button.
I followed the NB switch wires and it appears to break the R62 (pin 2 of plug C) lead on the PLL board. For normal operation, with the mod in place, the NB switch must be in the on position all the time
Got any clues, anyone?
I could easily remove the mod, but it would be nice to find out why it was put there in the first place. It could be a handy feature, but I have my doubt.
Thanks for your help

Joan VK5kyo

7420. Re: [TS-520_820_530_830] life

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 17:09:41 UTC
From: Peter A Markavage
Topic: 7420 Message: 7420

I thought it was TS-820>TS-820S>TS-830S. The TS-180 was all solid-state.

Pete, wa2cwa

On Fri, 28 Apr 2006 11:57:01 EDT bob54quam@... writes:
The TS-820 was manufactured 1976-1979, when it was replaced by the TS-180
Bob
KI0KM

[Non-text portions of this message have been removed]

7421. Re: RFI from Computer Monitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 17:25:19 UTC
From: Ravenswood
Topic: 7408 Message: 7421

--- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...>
wrote:
>
> Get Timewave's ANC-4. It's designed precisely for your problem.

Well, two issues that come to mind.

First, the monitor is generating frequencies between 45KHz and 57KHz.
The ANC-4 has an operational range between 500 kHz to 80 MHz.
Wouldn't that make it useless for this specific noise? Or, am I
missing something?

Lastly, for the cost of one of these, even used, I can buy a quiet
monitor that I won't have to adjust every time I move around on the
bands. Granted, the monitor won't be as portable, but I'd only
anticipate use of it at my base station anyway.

I think I'm just going to go down to Best Buy (etc.) and take may AM
radio with me to find a quiet monitor.

73, Frank K2NCC

7422. Re: [TS-520_820_530_830] Re: RFI from Computer Monitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 17:43:45 UTC
From: Kevin der Kinderen
Topic: 7408 Message: 7422

Not all LCD/flat screens are quiet. I had an LCD screen with a brick style power supply - similar to a laptop power supply. That thing drove my receiver nuts. I eventually hooked the monitor to my 12 volt power supply and eliminated that noise. Recently I purchased an LCD monitor from WalMart. It's a Sony 17" and had a $150 rebate. Not sure if they still have the deal, but this monitor is quite. WARNING: I've read in the RFI list that Sony monitors are bad for generating RFI. Maybe I got lucky.

Try changing the scan rate on your monitor card and see if that reduces or moves the noise out of the way.

There used to be a product that was like a sun screen for the front of the monitor. This particular product had a fine metal mesh in it which provided shielding. The disadvantage is that it reduced the clearness of the picture and the angle of viewing. I did a short search on the Internet and found some high-end products like this, but maybe a deeper search will produce something inexpensive and worth trying.

The LCD monitor, if it doesn't generate RFI, may be the easiest route to take.

73,
Kev - K4VD

[Non-text portions of this message have been removed]

7423. Re: [TS-520_820_530_830] life

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 18:04:57 UTC
From: bob54quam@cs.com
Topic: 7420 Message: 7423

The TS-180 came out in 1979 and was all solid state. This was about the time
the TS-120 came out, also solid state.
The TS-520SE came out about then and
continued untill 1981, when the TS-830 came out, followed soon by the TS-530,
replacing the TS-180. Shortly thereafter the TS 930 and TS-430 came out and
were made concurrently with the TS-830 and the TS-530
My guess is that the TS-180 wasn't very popular, so Kenwood produced two more
with tube finals; the 830, and 530.
Bob
KI0KM

[Non-text portions of this message have been removed]

7424. Re: [TS-520_820_530_830] life

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 18:08:06 UTC
From: bob54quam@cs.com
Topic: 7420 Message: 7424

The 820S followed shortly after the introduction of the 820, and denoted the digital frequency readout. Elecronically they were identical.
Bob
KI0KM

[Non-text portions of this message have been removed]

7425. Re: TS-830S breakthrough on receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 18:56:56 UTC
From: daveb0910
Topic: 7345 Message: 7425

Pete, Steve and Charles (by email)

Thanks for your helpful comments. You've all suggested a bad/dry joint as the likely cause, so I'm trying to track it down. No luck so far, I've now tightened just about every screw I can find on the cicuit boards. Also I have checked my ATUs and other connections between the rig and the antenna- no problems found.

I'm back to thinking it must be in the antenna or feeder. So next job is to replace the feeder. That should keep me busy over the holiday weekend here in UK...

73
Dave

Dave,
I noticed exactly the same on my recently acquired TS830S-
broadcast stations appearing in the ham bands.
However when the RF attenuator button was operated a few times the problem went away-at least temporarily.
I attributed the cause as being rectification of strong signals caused by oxidised contacts in the switch. Certainly its cured....for now.

regards,

Steve G8LIK
--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Check the screws that hold the printed wiring boards. Make sure they're
> tight. Kenwood uses the pressure of the screws on the boards to make
> ground contact between the underside of the board and the chassis. Adding
> a star washer between the board and the mounting frame can cure many
> intermittent type problems. I believe there was also a service bulletin
> on the 830 that also identified this issue.
>
> Pete, wa2cwa
>
>
> On Sun, 23 Apr 2006 14:59:53 -0000 "daveb0910"
> <heather.dave@...> writes:
> Can anyone help with this unusual problem?
>

> I've had my TS-830 up and running for the last 6 months after a
long
> time in storage. Some minor problems have been fixed (with help
> from this groups' postings- very helpful thank you) but bascially
it
> has worked fine.
>
> Recently, I have what I can only describe as intermittant RF
> breakthrough on receive. It happens on all bands, with loud (non-
ham)
> signals appearing across the whole of the band- these are carriers,
> AM brodcasts and a whole host of other noises. When I switch
between
> bands the breakthrough signals seem to be the same on each band
> making me think it has something to do with breakthrough on one of
> the IF freqencies.
>
> This only happens with one of my antennas (a multi-band doublet),
and
> not all the time. Sometimes there are periods of several days when
> it happens or doesn't, other times it just comes and goes over a
> matter of minutes.
>
> I'm puzzled about this. I've checked the antenna for bad
connections
> etc but all seems OK. The other main antenna I use, which causes
no
> problems like this, is a similar multiband doublet orientated at 90
> degrees to the first one.
>
> AT first I thought this was an antenna or local interference
problem,
> now I am beginning to think it is something in the TS-830.
>
> Any ideas or suggestions about solving this problem would be
> gratefully accepted.
>
> Dave
> G3ZQH
> Nottingham, England
>
> [Non-text portions of this message have been removed]
>

7426. Re: [TS-520_820_530_830] CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-28 18:58:21 UTC
From: Bill Richarz
Topic: 7407 Message: 7426

Switch the radio to 20 meters in USB postion. Tune in
a SSB station. Now switch to CW postion. It will be
hard to tune in the SSB station or not at all if you
have a 500 Hz filter installed.

73 de Bill, N4DH

--- Ravenswood <evokefrank@...> wrote:

> How can I tell if my TS-520 has a CW filter in it
> without cracking
> open the case?
>
> 73, Frank K2NCC
>
>
>
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7427. Re: [TS-520_820_530_830] Re: RFI from Computer Monitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-29 04:07:56 UTC
From: Max Harelik
Topic: 7408 Message: 7427

You asked about TV generated RFI (most of which is video related). I
gave you the answer that appeared to respond to your problem as stated.
If I misunderstood your situation, feel free to pursue an alternate
solution.

Max, K5OVW

Ravenswood wrote:

> --- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...>
> wrote:
> >
> > Get Timewave's ANC-4. It's designed precisely for your problem.
>
> Well, two issues that come to mind.
>
> First, the monitor is generating frequencies between 45KHz and 57KHz.
> The ANC-4 has an operational range between 500 kHz to 80 MHz.
> Wouldn't that make it useless for this specific noise? Or, am I
> missing something?
>
> Lastly, for the cost of one of these, even used, I can buy a quiet
> monitor that I won't have to adjust every time I move around on the
> bands. Granted, the monitor won't be as portable, but I'd only
> anticipate use of it at my base station anyway.
>
> I think I'm just going to go down to Best Buy (etc.) and take may AM
> radio with me to find a quiet monitor.
>
> 73, Frank K2NCC
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>

>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

[Non-text portions of this message have been removed]

7428. Re: TS-830S breakthrough on receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-29 11:30:09 UTC
From: stevehurstg8lik2003
Topic: 7345 Message: 7428

Dave,
Just to clarify-in the case of my rig the only issue was of
oxidised contacts in the RX attenuator switch which can be cleared at
least temporarily by operating the attenuator button a few times.See
if that clears it before delving too deep.

cheers,

Steve
--- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
<heather.dave@...> wrote:
>
> Pete, Steve and Charles (by email)
>
> Thanks for your helpful comments. You've all suggested a bad/dry
> joint as the likely cause, so I'm trying to track it down.

7429. digital readout fix???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-29 12:05:23 UTC
From: ab8rl
Topic: 7429 Message: 7429

I have a TS-820 with readout problem. Mostly on the number 2 I am getting additional led segments lighting up that makes the number 2 unreadable - somes the 5 as well. On some numbers the readout is perfect but depending on the number, the additional led leg of the numbers is lit up. Anyone experience this problem and what might the fix be???

7430. Looking for a remote plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-29 14:53:03 UTC
From: Daniel
Topic: 7430 Message: 7430

Hi folks

I'm looking for the remote plug (8P octal plug). Does anybody sell1 or 2 piece of this? Let me
know.

Daniel, HB9DDS

7431. 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-29 22:58:42 UTC
From: Gordon
Topic: 7431 Message: 7431

Anyone have a TS-820 Power transformer for sale?
Yes, There was Smoke !

7432. TS-820, Fix the problem with the display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-29 23:29:46 UTC
From: Ravenswood
Topic: 7429 Message: 7432

TS-820, Fix the problem with the display:

1. Remove the counter assembly unit from the 820.

2. Remove both circuit boards from the counter assembly (upper and lower boards.)

3. Scrape away the varnish from the corners of the boards where the interconnecting screwes and spacers hold the boards into the case.

4. Reassemble the counter.

SOURCE: http://www.radiomods.co.nz/kenwood/kenwoodts820.html

"Simply open up the top of the radio, pull the flat white plug that runs from the display to the electronics. Clean the pins with an emory cloth and apply a light coating of No-Ox (anti-oxidation compound) and put it back together."

SOURCE: http://www.eham.net/reviews/detail/154?page=2

7433. Re: TS-820, Fix the problem with the display / Not so fast...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 00:03:58 UTC
From: ke9zm
Topic: 7429 Message: 7433

That's good in theory - but that didn't fix my problem.

If anyone wants to see what the counter assembly looks like when
fully disassembled I put some pics here.

http://frrl.dyndns.org/frrlnetannex/ClassicRadios_Picts/

in the Kenwood_TS820-S folder

Mine still does not work and the particular problem I have is heat
related - keep the unit cool and it works - otherwise - too bad.

Gary / ke9zmm

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
<evokefrank@...> wrote:
>
> TS-820, Fix the problem with the display:
>
> 1. Remove the counter assembly unit from the 820.
>
> 2. Remove both circuit boards from the counter assembly (upper and
> lower boards.)
>
> 3. Scrape away the varnish from the corners of the boards where the
> interconnecting screwes and spacers hold the boards into the case.
>
> 4. Reassemble the counter.
>
> SOURCE: http://www.radiomods.co.nz/kenwood/kenwoodts820.html
>
> "Simply open up the top of the radio, pull the flat white plug that
> runs from the display to the electronics. Clean the pins with an
emory
> cloth and apply a light coating of No-Ox (anti-oxidation compound)
and
> put it back together."
>
> SOURCE: http://www.eham.net/reviews/detail/154?page=2
>

7434. Re: [TS-520_820_530_830] Re: TS-820, Fix the problem with the display / Not so fast...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 00:17:35 UTC
From: Kevin der Kinderen
Topic: 7429 Message: 7434

In the olden days in the Navy, when we had heating problems we'd fire up the equipment and wait for it to fail. Then take out our can of freon and zap each part. After a zap, if the equipment worked, we'd replace that part. Worked almost flawlessly.

I guess freon is not easy to come by now but there must be some substitute.

73 & good luck,
Kev - K4VD

On 4/29/06, ke9zm <ke9zm@...> wrote:
>
> Mine still does not work and the particular problem I have is heat
> related - keep the unit cool and it works - otherwise - too bad.
>
> Gary / ke9zmm

[Non-text portions of this message have been removed]

7435. Re: [TS-520_820_530_830] Re: TS-820, Fix the problem with the display / Not so fast...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 02:07:52 UTC
From: Dennis Windle
Topic: 7429 Message: 7435

M.G Chemicals make a Circuit Cooler product called SUPER COLD that is used for troubleshooting heat related problems. You can get a 10 oz spray can for around $8.00.

D.Windle
----- Original Message -----
From: Kevin der Kinderen
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, April 29, 2006 8:17 PM
Subject: Re: [TS-520_820_530_830] Re: TS-820, Fix the problem with the display / Not so fast...

In the olden days in the Navy, when we had heating problems we'd fire up the equipment and wait for it to fail. Then take out our can of freon and zap each part. After a zap, if the equipment worked, we'd replace that part. Worked almost flawlessly.

I guess freon is not easy to come by now but there must be some substitute.

73 & good luck,
Kev - K4VD

On 4/29/06, ke9zm <ke9zm@...> wrote:
>
> Mine still does not work and the particular problem I have is heat
> related - keep the unit cool and it works - otherwise - too bad.
>
> Gary / ke9zmm

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7436. Thank You

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 04:46:37 UTC
From: AllanKB5DOH
Topic: 3139 Message: 7436

[:)] Hi, To all members and a Big Thank You for allowing me to join
this

group and I will do my best to be a good member and to share any

knowlage I may have on Kenwood or other radio airway RF information.

Again Thank You and May God Bless You all and Yours. 73

Allan=kb5doh [:)]

[Non-text portions of this message have been removed]

7437. TS-520S Blowing Fuse

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 05:09:40 UTC
From: James D Harrison
Topic: 7437 Message: 7437

Hi,

I am new to the group, and have bought a used TS-520S, that looks as close to new as I have seen from another ham. I have the problem though that the 6amp fuse blows.

Looking through past threads, I think it is a tube problem.

I can power it up with the heaters, and grid turned off, and it runs in receive for hours, and has a great receive.

On the other side, I turn the grid and heaters on, wait a little while and start to follow the manual to tune up into a cantenna on 20mtr.(I also opperate a SB-102, and SB-110A tube tune up is not the problem), and the lights in the meter flicker a little, then it is dead.

Replace the fuse after the rig has cooled down (had to drive to town to get one, as I was fresh out of 6amp) and turn it back on it works fine. After letting the heaters on for 15 - 20minutes, the meter lights flickered (this time did not try to transmit) and out it goes again.

Does this sound like something shorting in one of the tubes after warming up?

Or does it sound like another problem?

The tubes installed are Philips ECG 6146B, and seem to be new, but were well shook during transit across the US, as I found they were part way out of there socket, while looking for the reason for the first fuse to blow. I also have the original tubes, but only have 60%. From my tube collection I have a set of 6146W that I cam install should the Pillips be bad.

I sent the Philips with a co-worker (fellow ham) home to test on his tube tester, and asked that they be let to warm a good long time first to see if they show a short when heated up. Hope to find out in the morning sometime the status on the tubes.

Thanks for any input!

73 James KG4PBI

7438. Re: TS-520S Blowing Fuse

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 06:03:58 UTC
From: stevehurstg8lik2003
Topic: 7437 Message: 7438

James,
I experienced this too with a TS830S shipped to me after
purchase.
Even if the tubes check OK on a tester with 900V or applied
probably a different story.
My meter lights flickered 30 seconds into putting out the first cq
call,a smell of burning and the 4Amp mains fuse blew.(Have since
replaced that with 3A here on the UK 230V mains for added
protection).
I changed the original(!)Japanese tubes to GE6146B and all fine
since. You just have to remember to go though the neutralising
procedure and reset the bias to 60ma too.
Might be worth checking that the cathode resistors on the final PCB
have not overheated as a result of the fault.In my case they looked
and measured OK. Total resistance I recall is 5 ohms with them
paralleled up.
The problem with old tubes is they don't like vibration/being banged
around in transit and the shipping you experienced almost certainly
finished them off.
Good luck,

73's,

Steve G8LIK

7439. Re: [TS-520_820_530_830] 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 08:36:54 UTC
From: Walt Breining
Topic: 7431 Message: 7439

Gordon:

The next question is how much smoke for how long. If a diode or capacitor is shorted, the transformer will smoke but is not always ruined.

First thing to do is install a 100 watt light bulb in series with the mains side of the 120V line as described below.

Unplug the rig any time you touch a transformer connection!

Disconnect the following in this order. Each time you disconnect a wire, plug the rig in and turn it on. Observe the light bulb. If it is almost full brightness, you still have a short. If it glows dim, the short was in the circuit you last disconnected.

Disconnect the wires from the following transformer connections in this order Leave them disconnected and then try the next one.
1. 800
2. 13
3. 300
4. 230
5. 90

Also, if you have the optional DC power supply mounted on the back, it should be completely disconnected.
Let me know your results. If the transformer is good in spite of smoke, we can help you find the short that caused it to smoke.

Now, the light bulb instructions:

Save your power transformer !

Place a 100 watt light bulb in series with the AC mains (120V line in the US) going into the rig.
The bulb will glow bright if there is a short but get dimmer if the short is cleared.
This keeps you from frying a good transformer while troubleshooting or going through 30,000 fuses.

I usually purchase a short orange extension cord and one of those rubber Edison base (light bulb)sockets that are rubber coated and have a white and black wire coming from it. These are used as temporary wiring at construction sites. Ace Hardware and most building supply stores have these. The cost of these two parts won't total more than $5.00 with some creative shopping.

Open the orange jacket at a point a few feet from the female plug to expose the White, Green, and black wire. Cut the black wire only.

Connect the black wire from the Edison socket to the black wire that leads
to the male end.
Connect the white wire from the Edison socket to the black wire that leads
to the female end.
I usually use a 100 watt bulb. This limits the AC current to below 1.2 amps.

Use this for testing or burning in a rig that has been in storage. Also
useful when first trying a set of 6JS6 or 6146 tubes in the event that they
are shorted. Use this when trouble shooting any problem that causes blown
fuses such as shorted rectifier diodes or capacitors.

With a rig that has a short across the transformer secondary, a possible
shorted diode or capacitor or shorted tube, the potential for frying the
transformer while troubleshooting is great. I have seen many rigs damaged
needlessly this way. If the bulb glows bright, there is a short. If
it is dim, there is no short.
The bulb will limit the current and keep from frying the transformer.

Do not operate with this. This is for testing only.

Please protect your rigs transformer.

Vy 73, Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, April 29, 2006 5:58 PM
Subject: [TS-520_820_530_830] 820S

> Anyone have a TS-820 Power transformer for sale?
> Yes, There was Smoke !
>
>
>
>

7440. Re: [TS-520_820_530_830] TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 10:55:12 UTC
From: Walt Breining
Topic: 20 Message: 7440

More than likely C22 and C24 the 100 uf 500 V caps have failed and should be replaced.

Vy 73, Walt N9WB

----- Original Message -----
From: "george dumond" <dums2@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, April 26, 2006 5:10 PM
Subject: [TS-520_820_530_830] TS-530S

> Hello everyone I am a new member of your fine group.
> My name is George call sgn. K0GWD.I currently have as
> my base station rig a Kenwood TS-530S into a 80M loop
> antenna up about 40 ft @ abt. 90 watts.Thru A MFJ 989
> tuner.Also have a mc-50 mic. The rig worked great when
> I first got it, put out full power on all bands.
> Turned it on one day and it would only put out abt 40
> watts. I checked the plate voltage and it was abt
> 400v. Also bad audio reports when prior reports were
> excellent audio. All other meter readings during tune
> up are normal. Any information would be gratefully
> accepted that would cure the old girl.
> Thanks George K0GWD
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7441. Re: 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 17:05:43 UTC
From: Gordon
Topic: 7431 Message: 7441

Thanks Walt,
I disconnected ALL the wires from the Transformer except for the
Primary and turned it on. It has NO DC to DC convertor.
Yep, Still smoke and all the voltages are really low except for the
800 Volt pair. It takes about 2 or 3 minutes before the smoke appears.
The 13 volt only measures about 11,the 300 volt only measures 156,
the 230 measures about 150 and the 90 measures around 76 volts. the
Input is right at 120 volts..
I'll make the light bulb deal, as that is a good idea.
I found a used transformer last night from a guy for $25.00 so I
should have it shipped here by the end of the week.

Thanks for the tips.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Gordon:
>
> The next question is how much smoke for how long. If a diode or
capacitor
> is shorted, the transformer will smoke but is not always ruined.
>
> First thing to do is install a 100 watt light bulb in series with
the mains
> side of the 120V line as described below.
>
> Unplug the rig any time you touch a transformer connection!
>
> Disconnect the following in this order. Each time you disconnect a wire,
> plug the rig in and turn it on. Observe the light bulb. If it is
almost full
> brightness, you still have a short. If it glows dim, the short was
in the
> circuit you last disconnected.
>
> Disconnect the wires from the following transformer connections in this
> order Leave them disconnected and then try the next one.
> 1. 800
> 2. 13
> 3. 300
> 4. 230
> 5. 90
>

>

7442. Re: [TS-520_820_530_830] TS 520 And TS 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 17:07:40 UTC
From: Bob Cunnings
Topic: 7350 Message: 7442

Is the TS520 still available? If so, I'm assuming that it does not
have the cw filter, correct?

Thanks,

Bob NW8L

On 4/23/06, Bill Hall <kz5cw@yahoo.com> wrote:
>
> I have a Kenwood TS520 and a Kenwood TS820. These rigs look good and
> work good. Both were retubed and aligned last year. I am offering both
> for $ 200.00 each plus shipping. In you are interested you can contact
> me by email or land line 830 833 2854.
>
> 73's
>
> Bill KZ5CW
>
>
>
>
>
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> ---------------------------------
>

7443. welcome..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 19:08:47 UTC
From: Bill
Topic: 7443 Message: 7443

.. kg4bib!

Go for that general, and welcome to the group!
73,

Bill K0ZL

7444. Thanks for the Welcome

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-04-30 23:30:34 UTC
From: freebird2136117
Topic: 7444 Message: 7444

KG4BIB, Bruce Here, Found this group thru a another group currently getting ready to take the plunge and upgrade, Have been collecting for my upgrade, I currently have a Ts-830S a At-230 MC-50 and a SM-220 with the BS8 should arrive tomorrow.. currently using to listen in and learn more about the operation of the radio... Looking forward to asking questions and receiving knowledge from everyone... Looking for a Sp-230 and a VFO 230 or 240...

7445. TS-520 for Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 02:21:46 UTC
From: Kyle
Topic: 7205 Message: 7445

Hi,
I`ve been sitting on a TS-520 since 1988 and only used it once (2004 ARRL FIELD DAY event). I am the second owner and have original sales receipt. Also have the operating manual for it. Still has original "extra parts" that came boxed up with the radio (feet extensions, vfo plugs, fuses, white plastic screw driver thingy, etc, etc).
I also have the VFO-520, with manuals and original shipping box. Both (radio & VFO)are in great shape. I have no need or use of these items. I hate to let them go because I`ve had them for so long. Never had a chance to work them because of my living situation (apartments). I have a FT-857 and I dought that I will ever use the the TS-520. I have turned them on about weekly (before I got my FT) to monitor the frequencies.
Thought I would drop a line to you all before I ebay them off. The shipping prices would scare me off. So if you live in the Des Moines, IA area, give me shout. I`m guessing $250 for the radio and $50 for the vfo, is that about right?
73`s. Kyle N0MKH

7446. Re: TS-520S Blowing Fuse

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 02:44:29 UTC
From: James D Harrison
Topic: 7437 Message: 7446

Hi Steve,

I have changed the tubes out with a pair of GE6146W (6146B from date code), and reset the bias voltage, and seems to be runing for over an hour without a problem.

I have the manual, but seem to be having problems neutralising the unit. My cantenna has a port for attaching a VTVM to read DC voltage, and I am not getting any readings (don't own a RF VTVM yet). With the option 2, adjusting for lowest S-meter reading on another receiver, I seem to be getting the same S-meter reading on my TS-2000 no mater where I turn the cap to.

I don't think they are right as is, so I need to find a local Elmer with either the proper tools, or better experiance in this. I own a few vintage rigs, and as luck has it this is my first final change out.

Currently if I key just very short and say something I get a nice trapizoid on my Heathkit SB-610 scope, but now the ALC goes to full scale after I unkey, and takes a very long time to return to receive. I assume this is because the neutralising is not correct yet. So I cut the rig off not to cause any damage,until I can get it done right.

James KG4PBI

--- In TS-520_820_530_830@yahoogroups.com, "stevehurstg8lik2003" <stevehurstg8lik2003@...> wrote:
>
> James,
> I experienced this too with a TS830S shipped to me after
> purchase.
> Even if the tubes check OK on a tester with 900V or applied
> probably a different story.
> My meter lights flickered 30 seconds into putting out the first cq
> call,a smell of burning and the 4Amp mains fuse blew.(Have since
> replaced that with 3A here on the UK 230V mains for added
> protection).
> I changed the original(!)Japanese tubes to GE6146B and all fine
> since. You just have to remember to go though the neutralising
> procedure and reset the bias to 60ma too.
> Might be worth checking that the cathode resistors on the final PCB
> have not overheated as a result of the fault.In my case they looked
> and measured OK. Total resistance I recall is 5 ohms with them
> paralleled up.
> The problem with old tubes is they don't like vibration/being

banged
> around in transit and the shipping you experienced almost certainly
> finished them off.
> Good luck,
>
> 73's,
>
> Steve G8LIK
>

7447. Re: TS-520S Blowing Fuse

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 04:33:08 UTC
From: stevehurstg8lik2003
Topic: 7437 Message: 7447

James,
I have also had problems neutralising two rigs, a 520SE and the
830S.
I used an adjacent transceiver to monitor for a reduction in S meter
reading whilst the rig under test was connected into antenna.
However it seemd that pickup from RF radiated from the mains lead
was
greater than the actual wanted signal making any 'dip' very small
and
I toyed with connecting the rigs directly together via an attenuator
(with the screen switch off of course) to get a better adjustment,
but
eventually managed without.
Another approach might be to check that max output and plate dip
coincide when using the tune position and if not tweak the neuting
capacitor accordingly. As the screen volts is reduced
in that state there is less chance of the tubes dangerously
oscillating.That should get you in the parish? If you can get that
close you can then confirm its acceptable in the tune position.Any
comments anyone?
Good luck!

Steve

--- In TS-520_820_530_830@yahoogroups.com, "James D Harrison"
<stg57@...> wrote:
>
> Hi Steve,
>
> I have changed the tubes out with a pair of GE6146W (6146B from
date
> code), and reset the bias voltage, and seems to be runing for over
an
> hour without a problem.
>
> I have the manual, but seem to be having problems neutralising the
> unit. My cantenna has a port for attaching a VTVM to read DC
> voltage, and I am not getting any readings (don't own a RF VTVM
> yet). With the option 2, adjusting for lowest S-meter reading on
> another receiver, I seem to be getting the same S-meter reading on
my
> TS-2000 no mater where I turn the cap to.
>

7448. Re: [TS-520_820_530_830] Re: TS-520S Blowing Fuse

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 05:13:59 UTC
From: David S Lund (KB5DRJ)
Topic: 7437 Message: 7448

Steve, James.

I did mine with this method. Easiest if you hook up a wattmeter between the rig and the dummy load. In the tune position with meter switch in ALC, peak the meter like normal. Then switch meter to IP. Now while in send mode watch both the rig's meter and the wattmeter at the same time. When you dip the plate you will get max reading on the wattmeter. The wattmeter peak and the IP dip should happen at the same spot on the plate knob. If it doesn't, take the rig out of send mode and adjust the neutralization cap and try again. Worked really well for me and took about a minute or so to find the right spot on the cap.

On Apr 30, 2006, at 11:33 PM, stevehurstg8lik2003 wrote:

> Another approach might be to check that max output and plate dip
> coincide when using the tune position and if not tweak the neuting
> capacitor accordingly. As the screen volts is reduced
> in that state there is less chance of the tubes dangerously
> oscillating.That should get you in the parish? If you can get that
> close you can then confirm its acceptable in the tune position.Any
> comments anyone?
> Good luck!
>
> Steve
>
> --- In TS-520_820_530_830@yahoogroups.com, "James D Harrison"
> <stg57@...> wrote:
>>
>> Hi Steve,
>>
>> I have changed the tubes out with a pair of GE6146W (6146B from
> date
>> code), and reset the bias voltage, and seems to be runing for over
> an
>> hour without a problem.
>>
>> I have the manual, but seem to be having problems neutralising the
>> unit. My cantenna has a port for attaching a VTVM to read DC
>> voltage, and I am not getting any readings (don't own a RF VTVM
>> yet). With the option 2, adjusting for lowest S-meter reading on
>> another receiver, I seem to be getting the same S-meter reading on
> my
>> TS-2000 no mater where I turn the cap to.
>>
>

>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7449. Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 05:36:41 UTC
From: Bob Cunnings
Topic: 6800 Message: 7449

Hi Charles,

Well, I got the job done, the trick was to go slow and not drop the little ball bearings and springs and like you said to document how things fit together before taking them apart. It *is* a little tricky getting the vfo out.

Yes, the grease was hard and the main shaft bearings somewhat frozen up - it seemed the big nut holding the bearings had been over-tightened as well. So the geartrain came apart for cleaning and relubing with sewing machine oil. It was the devil to get it all back together while maintaining anti-backlash tension in the two big gears but once done the result was very nice, smooth as silk, as good as new.

Also looks better with the knobs and panel cleaned up.

Thanks again,

Bob NW8L

On 4/25/06, Charles Mortimer <mortimer@...> wrote:
>
> hallo bob
> Charles calling
> good luck in the lube job if I can help in any way drop me a line
> once you get into it its simple .... kinematics of machinery ....
> charles and rusty vk6ycj
>
>
>

[Non-text portions of this message have been removed]

7450. Re: TS-520S Blowing Fuse

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 05:50:35 UTC
From: stevehurstg8lik2003
Topic: 7437 Message: 7450

David,
That sounds a real good method! I shall try that next time
round!

73's,
Steve

--- In TS-520_820_530_830@yahoogroups.com, "David S Lund (KB5DRJ)"
<kb5drj@...> wrote:
>
> Steve, James.
>
> I did mine with this method. Easiest if you hook up a wattmeter
> between the rig and the dummy load. In the tune position with
meter
> switch in ALC, peak the meter like normal. Then switch meter to
IP.
> Now while in send mode watch both the rig's meter and the
wattmeter
> at the same time. When you dip the plate you will get max reading
on
> the wattmeter. The wattmeter peak and the IP dip should happen at
the
> same spot on the plate knob. If it doesn't, take the rig out of
send
> mode and adjust the neutralization cap and try again. Worked
really
> well for me and took about a minute or so to find the right spot
on
> the cap.

7451. Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 08:15:33 UTC
From: Charles Mortimer
Topic: 6800 Message: 7451

hallo bob
Charles returning
pleased you managed to get everything sorted
its well worth it in the end personally I don't like using grease for that
simple reason after awhile it cakes like 25 years (hi hi) this is the
reason that I advised using light sewing machine oil just a drop in the
right places is enough it will permeate through the gears and the pre
loaded gears where it will hold tension for back lash much better than
grease oil will penetrate grease wont
I forgot to mention about that large nut/ thumb nut thumb tight only
thanks for the e-mail its most rewarding knowing that I have been able to
help some one to get rid of that lumpy vfo gear / train sorted and to run
like a piece of silk again I bet the whole front panel loved its birth
day with a good clean surprising how fowled up they get best of luck
Charles in Australia VK6YCJ
----- Original Message -----
From: "Bob Cunnings" <bob.cunnings@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, May 01, 2006 1:36 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520SE tuning indents (flat spots)

> Hi Charles,
>
> Well, I got the job done, the trick was to go slow and not drop the little
> ball bearings and springs and like you said to document how things fit
> together before taking them apart. It *is* a little tricky getting the vfo
> out.
>
> Yes, the grease was hard and the main shaft bearings somewhat frozen up -
> it
> seemed the big nut holding the bearings had been over-tightened as well.
> So
> the geartrain came apart for cleaning and relubing with sewing machine
> oil.
> It was the devil to get it all back together while maintaining
> anti-backlash
> tension in the two big gears but once done the result was very nice,
> smooth
> as silk, as good as new.
>
> Also looks better with the knobs and panel cleaned up.
>
> Thanks again,
>
> Bob NW8L

>
> On 4/25/06, Charles Mortimer <mortimer@...> wrote:
>>
>> hallo bob
>> Charles calling
>> good luck in the lube job if I can help in any way drop me a line
>> once you get into it its simple .... kinematics of machinery ....
>> charles and rusty vk6ycj
>>
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7452. Re: [TS-520_820_530_830] Re: TS-520S netrulization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 10:57:48 UTC
From: Walt Breining
Topic: 7452 Message: 7452

Go to 6.9 on page 40 of your manual. Set it up as described in the book. With the SG switch off can you see signal on your scope with it between the rig and the dummy load? If so, you can use this as an output indication.

You can also use one of those cheap CB SWR meters. After tuning up and switching the SG switch off, insert the SWR meter in line with the dummy load. Place it on forward power and turn the set knob all the way up or as high as needed to get an indication. As you get closer to the null, you can keep increasing the set knob on the SWR meter as needed.

What are you using for an adjustment tool? The cover has to be on the final cage when adjusting this capacitor. Unless the tool has a plastic blade, it will change the setting when touching the capacitor. Also be very careful as there is high voltage on this capacitor.

I usually find that the turning of this capacitor is so stiff that it causes the insulated tool to break.

What I do is to use a metal screwdriver with a good plastic insulated (not wood) handle. I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover. Holding the screwdriver by the plastic handle, I nudge the capacitor a bit at a time and remove it to look at the scope or meter. I nudge it one way or the other until I find the minimum point. The screwdriver must be removed each time the signal level is checked. Remember, the screwdriver shaft will have high voltage on it any time it is in contact with the capacitor. Once you get near the null, the adjustment will be very touchy. Once I get close, to get it right on, I have to nudge the capacitor ever so barely.

You are far better off to use an insulated tool if you can

There is also another way to determine neutralization.
Leave the SG switch on.
When properly neutralized on 28.5,the output power to a watt meter will PEAK at exactly the same point at the DIP in IC current occurs when tuning the tune control.

If it is exact, the DEcrease in output on the watt meter will be symmetrical as you barely tune out of the dip on either side of the dip. Once set, this condition will not necessarily occur on any frequency except the one that you adjusted it on (28.5). Also, this is so critical that probably if you check this on 28.5 a few days later, it will not stay exact, but will stay close and that is good enough.

You can do this in the tune mode until you get the capacitor in the ball park, and then retune in CW and make very fine adjustments to the capacitor. Un key the rig when making capacitor adjustments. Barely nudge the capacitor

and then key back up to observe the results. Remember, there is still high voltage while on receive so the above precautions with the screwdriver still apply.

Also, if your idle current is not set to 60 ma, it can cause the tubes to take off.

Go to 80 meters where the rig is not as likely to take off. With the SG switch on. Key the rig on USB with the mike gain fully Down. Adjust the idle current for 60 ma. This is a little over half way between .1 and 0 on the bottom scale when the meter is in the IC position. 60 Ma is .06 amps not .6 amps. It is less than .1 amps.

You can actually adjust the neutralization on 20 meters to get it in the ball park, and then go to 28.5 to finish the process.

Perhaps the above will be helpful.

Vy 73, Walt N9WB

----- Original Message -----
From: "James D Harrison" <stg57@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 30, 2006 9:44 PM
Subject: [TS-520_820_530_830] Re: TS-520S Blowing Fuse

> Hi Steve,
>
> I have changed the tubes out with a pair of GE6146W (6146B from date
> code), and reset the bias voltage, and seems to be runing for over an
> hour without a problem.
>
> I have the manual, but seem to be having problems neutralising the
> unit. My cantenna has a port for attaching a VTVM to read DC
> voltage, and I am not getting any readings (don't own a RF VTVM
> yet). With the option 2, adjusting for lowest S-meter reading on
> another receiver, I seem to be getting the same S-meter reading on my
> TS-2000 no mater where I turn the cap to.
>
> I don't think they are right as is, so I need to find a local Elmer
> with either the proper tools, or better experiance in this. I own a
> few vintage rigs, and as luck has it this is my first final change
> out.
>
> Currently if I key just very short and say something I get a nice
> trapizoid on my Heathkit SB-610 scope, but now the ALC goes to full
> scale after I unkey, and takes a very long time to return to receive.
> I assume this is because the neutralising is not correct yet. So I
> cut the rig off not to cause any damage,until I can get it done right.
>
> James KG4PBI

7453. Re: [TS-520_820_530_830] Thanks for the Welcome

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 12:01:15 UTC
From: Stephen Goldberg
Topic: 7444 Message: 7453

You also might look into a VFO 120. It's smaller, cheaper and works with
your 830 just like the VFO 240.

Steve W4IMF

----- Original Message -----
From: "freebird2136117" <freebird2136117@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, April 30, 2006 7:30 PM
Subject: [TS-520_820_530_830] Thanks for the Welcome

> KG4BIB, Bruce Here, Found this group thru a another group currently
> getting ready to take the plunge and upgrade, Have been collecting for
> my upgrade, I currently have a Ts-830S a At-230 MC-50 and a SM-220 with
> the BS8 should arrive tomorrow.. currently using to listen in and learn
> more about the operation of the radio... Looking forward to asking
> questions and receiving knowledge from everyone... Looking for a Sp-230
> and a VFO 230 or 240...
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.5.1/327 - Release Date: 4/28/06

7454. Re: [TS-520_820_530_830] TS 520 And TS 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 13:31:37 UTC
From: Bill Hall
Topic: 7350 Message: 7454

Sorry Bob, the 520 is sold.
Bill KZ5CW

----- Original Message ----
From: Bob Cunnings <bob.cunnings@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, April 30, 2006 12:07:40 PM
Subject: Re: [TS-520_820_530_830] TS 520 And TS 820

Is the TS520 still available? If so, I'm assuming that it does not
have the cw filter, correct?

Thanks,

Bob NW8L

On 4/23/06, Bill Hall <kz5cw@...> wrote:
>
> I have a Kenwood TS520 and a Kenwood TS820. These rigs look good and
> work good. Both were retubed and aligned last year. I am offering both
> for $ 200.00 each plus shipping. In you are interested you can contact
> me by email or land line 830 833 2854.
>
> 73's
>
> Bill KZ5CW
>
>
>
>
>
>
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7455. Golden Dragon Tubes/Valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 13:50:46 UTC
From: Jon, M1CBH
Topic: 7455 Message: 7455

Hi,

Golden Dragon 8146b tubes/valves

Anybody ever heard of them?

If so, what they like, and would you recommend them

Jon, M1CBH

7456. Re: [TS-520_820_530_830] Golden Dragon Tubes/Valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 14:23:07 UTC
From: David S Lund (KB5DRJ)
Topic: 7455 Message: 7456

I believe that these are the Chinese tubes. I don't think that I'd
buy them based on the stories I've read on here about the Chinese tubes.

David KB5DRJ

On May 1, 2006, at 8:50 AM, Jon, M1CBH wrote:

> Hi,
>
> Golden Dragon 8146b tubes/valves
>
> Anybody ever heard of them?
>
> If so, what they like, and would you recommend them
>
> Jon, M1CBH

7457. Re: [TS-520_820_530_830] Golden Dragon Tubes/Valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 14:44:17 UTC
From: Paul Manuel
Topic: 7455 Message: 7457

--- "David S Lund (KB5DRJ)" <kb5drj@...> wrote:
> I believe that these are the Chinese tubes. I don't think that I'd
> buy them based on the stories I've read on here about the Chinese tubes.

I thought they were Chinese, based on the name, but I saw somewhere on the net that they are Yugoslavian. I don't know which is correct (if either.)
73,
Paul K4PDM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7458. Re: Golden Dragon Tubes/Valves

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 14:58:43 UTC
From: Graham
Topic: 7455 Message: 7458

Have a look at http://www.m5lro.com/

And drop Chris a line and ask him.

If he doesn't know...<smile>

73

Graham M5AAV

7459. Re: 820S - Thanks again Walt!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 16:09:48 UTC
From: Ellen R
Topic: 7431 Message: 7459

I tell you Walt,

You are a veritable font of info! I don't have this transformer problem, and I even printed this out, because it's a very useful piece of general info to know. Many thanks for your info.

73,
ellen - AF9J

P.S. - I finally got well enough to deal with my TS-820 drift issue. Sure enough, VR4 was off. It read 9.12V, instead of 9,0V. I've readjusted it, and I've installed th new 6146Ws I got. I just need to neutralize them. There are 2 different methods described; one in the instruction manual, and the other described in the service manual. The instruction manual method looks a little easier to do. BUT, it's a little sparse on detail. I just says do it at 21.3 MHz. No mentionis made of which mode to use (I assume CW, since it has a carrier). No mention is made as to whether or not you have to tune the 820 (Drive, Plate, Load, blah, blah, blah). Also, I don't have an RF voltmeter or an O-scope, for getting the null you need for neutralization. But I DO have a QRP wattmeter that will read down 100mW full scale (with 1 mW increments), would this be sensitive enough for neutralization?

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Gordon:
>
> The next question is how much smoke for how long. If a diode or capacitor
> is shorted, the transformer will smoke but is not always ruined.
>
> First thing to do is install a 100 watt light bulb in series with the mains
> side of the 120V line as described below.
>
> Unplug the rig any time you touch a transformer connection!
>
> Disconnect the following in this order. Each time you disconnect a wire,
> plug the rig in and turn it on. Observe the light bulb. If it is almost full
> brightness, you still have a short. If it glows dim, the short was in the
> circuit you last disconnected.

>
> Disconnect the wires from the following transformer connections in
this
> order Leave them disconnected and then try the next one.
> 1. 800
> 2. 13
> 3. 300
> 4. 230
> 5. 90
>
> Also, if you have the optional DC power supply mounted on the back,
it
> should be completely disconnected.
> Let me know your results. If the transformer is good in spite of
smoke, we
> can help you find the short that caused it to smoke.
>
> Now, the light bulb instructions:
>
> Save your power transformer !
>
> Place a 100 watt light bulb in series with the AC mains (120V line
in the
> US) going into the rig.
> The bulb will glow bright if there is a short but get dimmer if the
short is
> cleared.
> This keeps you from frying a good transformer while troubleshooting
or going
> through 30,000 fuses.
>
> I usually purchase a short orange extension cord and one of those
rubber
> Edison base (light bulb)sockets that are rubber coated and have a
white and
> black wire coming from it. These are used as temporary wiring at
> construction sites. Ace Hardware and most building supply stores
have these.
> The cost of these two parts won't total more than $5.00 with some
creative
> shopping.
>
> Open the orange jacket at a point a few feet from the female plug
to expose
> the White, Green, and black wire. Cut the black wire only.
>
> Connect the black wire from the Edison socket to the black wire
that leads
> to the male end.
> Connect the white wire from the Edison socket to the black wire

that leads
> to the female end.
> I usually use a 100 watt bulb. This limits the AC current to below
1.2 amps.
>
> Use this for testing or burning in a rig that has been in storage.
Also
> useful when first trying a set of 6JS6 or 6146 tubes in the event
that they
> are shorted. Use this when trouble shooting any problem that causes
blown
> fuses such as shorted rectifier diodes or capacitors.
>
> With a rig that has a short across the transformer secondary, a
possible
> shorted diode or capacitor or shorted tube, the potential for
frying the
> transformer while troubleshooting is great. I have seen many rigs
damaged
> needlessly this way. If the bulb glows bright, there is a short. If
> it is dim, there is no short.
> The bulb will limit the current and keep from frying the
transformer.
>
> Do not operate with this. This is for testing only.
>
> Please protect your rigs transformer.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, April 29, 2006 5:58 PM
> Subject: [TS-520_820_530_830] 820S
>
>
> > Anyone have a TS-820 Power transformer for sale?
> > Yes, There was Smoke !
> >
> >
> >
> >
>

7460. Re: Thanks for the Welcome

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 16:18:53 UTC
From: w9dz
Topic: 7444 Message: 7460

I am using the VFO 120 with my 830S. They often show up on eBay and sometimes can be found for less than $100.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg" <w2imf@...> wrote:
>
> You also might look into a VFO 120. It's smaller, cheaper and works with
> your 830 just like the VFO 240.
>
> Steve W4IMF
>
> ----- Original Message -----
> > questions and receiving knowledge from everyone... Looking for a Sp-230
> > and a VFO 230 or 240...
> >

7461. TS-520S - IF Frequency ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 17:33:08 UTC
From: n3hkn
Topic: 7461 Message: 7461

Can anyone verify that the IF frequency, where the xtal filter operates, is 3395khz??

My hope is to pick off this signal prior to the xtal filter. Then feed it to a Software Defined Receiver (SDR). Use the DSP program to create a wide range of free filters, noise reduction, and impulse noise limiting. I would retain the "first half" of the 520 which gives me band-switching. front-end preselector, a nice VFO, and of course transmitting. Transmitting should not be affected since I am not interrupting the signal path.

Dick N3HKN

7462. Re: TS-830S breakthrough on receive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-01 20:37:33 UTC
From: daveb0910
Topic: 7345 Message: 7462

Just a note to say that the problem is solved- it was a broken wire
in the 450 ohm feeder line. Not easy to see with the plastic
coating! So, in the end the TS-830 was not the problem. But at
least I got to check and tighten all those ground connections...

Thanks for the help from this group.

73, Dave, G3ZQH

--- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
<heather.dave@...> wrote:
>
> Pete, Steve and Charles (by email)
>
> Thanks for your helpful comments. You've all suggested a bad/dry
> joint as the likely cause, so I'm trying to track it down. No luck
> so far, I've now tightened just about every screw I can find on the
> cicuit boards. Also I have checked my ATUs and other connections
> between the rig and the antenna- no problems found.
>
> I'm back to thinking it must be in the antenna or feeder. So next
> job is to replace the feeder. That should keep me busy over the
> holiday weekend here in UK...
>
> 73
> Dave
>
>
>
>
> Dave,
> I noticed exactly the same on my recently acquired TS830S-
> broadcast stations appearing in the ham bands.
> However when the RF attenuator button was operated a few times the
> problem went away-at least temporarily.
> I attributed the cause as being rectification of strong signals
caused
> by oxidised contacts in the switch. Certainly its cured....for now.
>
> regards,
>
> Steve G8LIK
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > Check the screws that hold the printed wiring boards. Make sure

> they're
> > tight. Kenwood uses the pressure of the screws on the boards to
make
> > ground contact between the underside of the board and the
chassis.
> Adding
> > a star washer between the board and the mounting frame can cure
many
> > intermittent type problems. I believe there was also a service
> bulletin
> > on the 830 that also identified this issue.
> >
> > Pete, wa2cwa
> >
> >
> > On Sun, 23 Apr 2006 14:59:53 -0000 "daveb0910"
> > <heather.dave@> writes:
> > Can anyone help with this unusual problem?
> >
> > I've had my TS-830 up and running for the last 6 months after a
> long
> > time in storage. Some minor problems have been fixed (with help
> > from this groups' postings- very helpful thank you) but bascially
> it
> > has worked fine.
> >
> > Recently, I have what I can only describe as intermittant RF
> > breakthrough on receive. It happens on all bands, with loud (non-
> ham)
> > signals appearing across the whole of the band- these are
carriers,
> > AM brodcasts and a whole host of other noises. When I switch
> between
> > bands the breakthrough signals seem to be the same on each band
> > making me think it has something to do with breakthrough on one
of
> > the IF freqencies.
> >
> > This only happens with one of my antennas (a multi-band doublet),
> and
> > not all the time. Sometimes there are periods of several days
when
> > it happens or doesn't, other times it just comes and goes over a
> > matter of minutes.
> >
> > I'm puzzled about this. I've checked the antenna for bad
> connections
> > etc but all seems OK. The other main antenna I use, which causes
> no
> > problems like this, is a similar multiband doublet orientated at

90
> > degrees to the first one.
> >
> > AT first I thought this was an antenna or local interference
> problem,
> > now I am beginning to think it is something in the TS-830.
> >
> > Any ideas or suggestions about solving this problem would be
> > gratefully accepted.
> >
> > Dave
> > G3ZQH
> > Nottingham, England
> >
> > [Non-text portions of this message have been removed]
> >
>

7463. Question on SM-220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-02 05:10:26 UTC
From: freebird2136117
Topic: 7463 Message: 7463

What is the best way to connect the SM-220 to a Ts-830S I have conflicting info Thanks

7464. Re: [TS-520_820_530_830] Question on SM-220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-02 16:14:20 UTC
From: Peter A Markavage
Topic: 7463 Message: 7464

If you follow the manual instructions, you can't go wrong. There's nothing conflicting there.
Pete, wa2cwa

On Tue, 02 May 2006 05:10:26 -0000 "freebird2136117" <freebird2136117@...> writes:
What is the best way to connect the SM-220 to a Ts-830S I have conflicting info Thanks

[Non-text portions of this message have been removed]

7465. Re: TS-520S netrulization (blowing fuse)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 03:10:27 UTC
From: James D Harrison
Topic: 7452 Message: 7465

Hi,

Thanks for everyone's help!

I now have it taken care of. I first tried with my scope, however the Heathkit SB-610 does not read such a low RF input the way it is built. The low priced CB SWR meter from Radioshack did not either.

I did pull out my 1978 Handbook, and put together a RF probe to use with my Heathkit VTVM from scrap box parts. It worked! I could use the zero adjust to bring up the scale, and then turn the CAP to the point with the lowest voltage reading.

Under full power the scope looks ok, just need to get on the air, and see how the repots are.

Next hamfest I will have to pick up an other set of tubes for back up again.

The Phillips 6146B that were in the rig when the fuses were blowing, as well as the original 2001 tubes checked out fine running long term on a tune tester, the driver however would go to a dead short after about 20minutes on the tube tester. If a short in the driver is enough to blow the fuse, I may have found the quilty item.

Just need to find a matching speaker and VFO down the road, and as funds become avalible to complete the station.

Thanks again for everyone's input.

James KG4PBI

>
> Go to 6.9 on page 40 of your manual. Set it up as described in the book.
> With the SG switch off can you see signal on your scope with it between the
> rig and the dummy load? If so, you can use this as an output indication.
>
> You can also use one of those cheap CB SWR meters. After tuning up and
> switching the SG switch off, insert the SWR meter in line with the dummy
> load. Place it on forward power and turn the set knob all the way up or as
> high as needed to get an indication. As you get closer to the

null, you can
> keep increasing the set knob on the SWR meter as needed.
>
>
> What are you using for an adjustment tool? The cover has to be on
the final
> cage when adjusting this capacitor. Unless the tool has a plastic
blade, it
> will change the setting when touching the capacitor. Also be very
careful
> as there is high voltage on this capacitor.
>
> I usually find that the turning of this capacitor is so stiff that
it causes
> the insulated tool to break.
>
> What I do is to use a metal screwdriver with a good plastic
insulated (not
> wood) handle. I shrink 2 pieces of shrink tubing, (double
thickness) on the
> screwdriver shaft so it will not touch the edges of the hole in the
cover.
> Holding the screwdriver by the plastic handle, I nudge the
capacitor a bit
> at a time and remove it to look at the scope or meter. I nudge it
one way
> or the other until I find the minimum point. The screwdriver must
be removed
> each time the signal level is checked. Remember, the screwdriver
shaft will
> have high voltage on it any time it is in contact with the
capacitor. Once
> you get near the null, the adjustment will be very touchy. Once I
get close,
> to get it right on, I have to nudge the capacitor ever so barely.
>
> You are far better off to use an insulated tool if you can
>
>
> There is also another way to determine neutralization.
> Leave the SG switch on.
> When properly neutralized on 28.5,the output power to a watt meter
will PEAK
> at exactly the same point at the DIP in IC current occurs when
tuning the
> tune control.
>
> If it is exact, the DEcrease in output on the watt meter will be
symmetrical
> as you barely tune out of the dip on either side of the dip. Once

set, this
> condition will not necessarily occur on any frequency except the
one that
> you adjusted it on (28.5). Also, this is so critical that probably
if you
> check this on 28.5 a few days later, it will not stay exact, but
will stay
> close and that is good enough.
>
> You can do this in the tune mode until you get the capacitor in the
ball
> park, and then retune in CW and make very fine adjustments to the
capacitor.
> Un key the rig when making capacitor adjustments. Barely nudge the
capacitor
> and then key back up to observe the results. Remember, there is
still high
> voltage while on receive so the above precautions with the
screwdriver still
> apply.
>
> Also, if your idle current is not set to 60 ma, it can cause the
tubes to
> take off.
>
> Go to 80 meters where the rig is not as likely to take off. With
the SG
> switch on. Key the rig on USB with the mike gain fully Down. Adjust
the idle
> current for 60 ma. This is a little over half way between .1 and 0
on the
> bottom scale when the meter is in the IC position. 60 Ma is .06
amps not .6
> amps. It is less than .1 amps.
>
> You can actually adjust the neutralization on 20 meters to get it
in the
> ball park, and then go to 28.5 to finish the process.
>
> Perhaps the above will be helpful.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "James D Harrison" <stg57@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, April 30, 2006 9:44 PM
> Subject: [TS-520_820_530_830] Re: TS-520S Blowing Fuse
>
>

> > Hi Steve,
> >
> > I have changed the tubes out with a pair of GE6146W (6146B from
date
> > code), and reset the bias voltage, and seems to be runing for
over an
> > hour without a problem.
> >
> > I have the manual, but seem to be having problems neutralising the
> > unit. My cantenna has a port for attaching a VTVM to read DC
> > voltage, and I am not getting any readings (don't own a RF VTVM
> > yet). With the option 2, adjusting for lowest S-meter reading on
> > another receiver, I seem to be getting the same S-meter reading
on my
> > TS-2000 no mater where I turn the cap to.
> >
> > I don't think they are right as is, so I need to find a local
Elmer
> > with either the proper tools, or better experiance in this. I
own a
> > few vintage rigs, and as luck has it this is my first final change
> > out.
> >
> > Currently if I key just very short and say something I get a nice
> > trapizoid on my Heathkit SB-610 scope, but now the ALC goes to
full
> > scale after I unkey, and takes a very long time to return to
receive.
> > I assume this is because the neutralising is not correct yet. So
I
> > cut the rig off not to cause any damage,until I can get it done
right.
> >
> > James KG4PBI
>

7466. TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 09:50:10 UTC
From: george dumond
Topic: 20 Message: 7466

Hello:
I just joined this fine group a few days ago and had
posted a message regarding my 530's low voltage & low
output. I cant remember who gave me the part # for the
HV caps but want to thank you very much. I replaced
both caps,lubed the fan cleaned and Deoxit
treated All the switches and pots etc.The old girl is
as good as new again. Full output on all bands and
great audio reports.
Thanks George K0GWD

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7467. TS-830 slow fan?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 13:16:10 UTC
From: alpyke
Topic: 7467 Message: 7467

Can anyone indicate if the fan on the TS-830, which cools the finals stage, should be running at just small drift of air? It looks like the fins are spinning, but I can barely feel an airflow coming from it. Is it normal? I'm used to the fans you would see in a PC power supply that you can dry your hair with. Maybe it is normal here though.

Thanks for any help. - Adrian, KB1NFW

7468. Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 13:24:34 UTC
From: alpyke
Topic: 7302 Message: 7468

Hi Ellen:

Just wanted to let you know, I finally did replace the 12BY7A tube last night, and that seems to have fixed the problem. I got it tuned up and was able to make my first contact. What a thrill!

There is still something wrong with the ALC METER, or circuit, because there is still no ALC displayed, but by monitoring output power into the dummy load, I was able to peak RF output at about 80 W. When I get some time, I may look into that later, but for now it works.

Thanks again and 73 - Adrian, KB1NFW

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Adrian,
>
> More than likely, the suggestions the other hams in the group have
> made will solve your problem. If you still have no ALC, after
> checking for the things previously mentioned, you might want to check
> one other thing - the 12BY7A driver tube. Usually if these are taken
> care of, they last a long time. But if they're worn out, you can end
> up with no Drive, and as a result, no ALC. I had this condition
> exist, on both a TS-520S, and a FT-101B I had bought, in college. In
> both cases, I was trying them out for the first time. I replaced the
> driver tube in each rig, and they tuned up fine, with plenty of ALC.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "alpyke" <alpyke@>
> wrote:
> >
> > Hi All:
> >
> > I'm a new member of this group and a new owner of a TS-830S. I'm
> > having some trouble getting it tuned up, and would really

> appreciate
> > any advice, help, guidance, suggestions etc.
> >
> > The problem is as follows:
> >
> > 1) I purchased a TS-830S off ebay. Prior user says it works.
Who
> > knows...
> > 2) I've used it in receive only for a week or so, and it works
fine.
> > 3) I connected a dummy load (50 ohm) to the output, and tried to
> > tune it up. I've tried at several frequencies, with the same
> result:
> > 4) Following the procedure in the manual, I set the IP to 60
ma.
> > This works no problem. It was set to 70ma from the prior user,
I
> > turned it down slightly with the knob on the back and that works.
> > 5) The next step is to "peak the ALC". Here, when I set up
> > according to the manual, I get nothing on the meter for ALC, and
> > also nothing on the output power meter I have with the dummy
load.
> > (I also tried FYI without the external power meter in the
circuit,
> > only the dummy load, just in case there was a problem with my
power
> > meter. Same result, ALC=0). To check the dummy load, I
> > disconnected the ANT cable from the back of the TS-830, and
> measured
> > 50 ohms on the end of the cable that plugs into the TS-830.
I've
> > also tried adjusting the CAR to both extremes, same result.
> > 6) I can see that the 2 final tubes (6146B's) are each glowing.
> > Also the tube that drives them (can't remember the number off
hand)
> > is glowing.
> > 7) I haven't made any measurements, but I can if anybody knows
> > (precisely) what I should measure. I do not have a VTVM, but I
do
> > have a DMM, and Analog multi-meter and a scope available.
> >
> > Thanks for any suggestions.
> >
> > 73 - Adrian, KB1NFW.
> >
>

7469. RE: [TS-520_820_530_830] TS-830 slow fan?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 13:34:14 UTC
From: David, m0wam
Topic: 7467 Message: 7469

That's how it should be, Adrian - nice, isn't it?

A drop of oil on the bearings from time to time will keep it happy...

Regards

David
M0WAM

> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of alpyke
> Sent: 03 May 2006 14:16
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS-830 slow fan?
>
> Can anyone indicate if the fan on the TS-830, which cools the
> finals stage, should be running at just small drift of air?
> It looks like the fins are spinning, but I can barely feel an
> airflow coming from it. Is it normal? I'm used to the fans
> you would see in a PC power supply that you can dry your hair
> with. Maybe it is normal here though.
>
> Thanks for any help. - Adrian, KB1NFW
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7470. Re: [TS-520_820_530_830] Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 19:49:38 UTC
From: Stephen Goldberg
Topic: 7302 Message: 7470

Adrian,

You may have to try another 12BY7As. Don't know why but I've found that they all don't work well and sometimes you have to go through several to find a good one.

Steve W4IMF

----- Original Message -----
From: "alpyke" <alpyke@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 03, 2006 9:24 AM
Subject: [TS-520_820_530_830] Re: TS-830 no ALC in Tuning

> Hi Ellen:
>
> Just wanted to let you know, I finally did replace the 12BY7A tube
> last night, and that seems to have fixed the problem. I got it
> tuned up and was able to make my first contact. What a thrill!
>
> There is still something wrong with the ALC METER, or circuit,
> because there is still no ALC displayed, but by monitoring output
> power into the dummy load, I was able to peak RF output at about 80
> W. When I get some time, I may look into that later, but for now it
> works.
>
> Thanks again and 73 - Adrian, KB1NFW
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.385 / Virus Database: 268.5.1/328 - Release Date: 5/1/06

7471. Digital Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 21:38:20 UTC
From: needles69_2001
Topic: 1768 Message: 7471

Looking for a DG-5 digital display for my 520 SE. Or another make that will work. Any help or info ? Thanks
Mike . WA3HDQ

7472. Re: [TS-520_820_530_830] Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-03 23:06:18 UTC
From: Walt Breining
Topic: 7302 Message: 7472

I have run into that also. Toshiba seems to work best. I had a YO-100 scope
and I take a Toshiba out of it for my 820 and replace it with the new one.

Vy 73, Walt N9WB

----- Original Message -----
From: "Stephen Goldberg" <w2imf@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 03, 2006 2:49 PM
Subject: Re: [TS-520_820_530_830] Re: TS-830 no ALC in Tuning

> Adrian,
>
> You may have to try another 12BY7As. Don't know why but I've found that
> they all don't work well and sometimes you have to go through several to
> find a good one.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: "alpyke" <alpyke@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, May 03, 2006 9:24 AM
> Subject: [TS-520_820_530_830] Re: TS-830 no ALC in Tuning
>
>
> > Hi Ellen:
> >
> > Just wanted to let you know, I finally did replace the 12BY7A tube
> > last night, and that seems to have fixed the problem. I got it
> > tuned up and was able to make my first contact. What a thrill!
> >
> > There is still something wrong with the ALC METER, or circuit,
> > because there is still no ALC displayed, but by monitoring output
> > power into the dummy load, I was able to peak RF output at about 80
> > W. When I get some time, I may look into that later, but for now it
> > works.
> >
> > Thanks again and 73 - Adrian, KB1NFW
> >
>
>
>
> --
> Certified Virus Free.
> Checked by AVG Free Edition.

> Version: 7.1.385 / Virus Database: 268.5.1/328 - Release Date: 5/1/06
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7473. Re: [TS-520_820_530_830] Digital Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 00:49:59 UTC
From: Max Harelik
Topic: 1768 Message: 7473

Ran across this the other day:

http://www.electronicspecialtyproducts.com/

Don't know anything about the it, but it looks like it might answer your need.

73,
Max, K5OVW

needles69_2001 wrote:

> Looking for a DG-5 digital display for my 520 SE. Or another make that
> will work. Any help or info ? Thanks
> Mike . WA3HDQ

[Non-text portions of this message have been removed]

7474. Re: [TS-520_820_530_830] Digital Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 02:25:42 UTC
From: Dennis Windle
Topic: 1768 Message: 7474

Try http://aade.com they have a replacement for the DG-5 also.

D.Windle

needles69_2001 wrote:

> Looking for a DG-5 digital display for my 520 SE. Or another make that
> will work. Any help or info ? Thanks
> Mike . WA3HDQ

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7475. TS-520SE and 29.1Mhz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 06:39:21 UTC
From: Daniel
Topic: 7475 Message: 7475

Hello to all

When I switch to the 29.1 position on the band selector switch, I have no RX and TX signal (and nothing to display on the DG-5). Position 28, 28.5 and all others are OK. Any ideas??

Daniel, HB9DDS

7476. Trio and Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 16:19:40 UTC
From: Gordon
Topic: 7476 Message: 7476

Can someone tell me. Is the TRIO TS-820s supposed to be Identical to
the Kenwood TS-820S?
The reason I ask is, I have a TRIO TS-820S and the service manual
for the Kenwood TS-820S I have noticed some schematic differences
during my trouble shooting..
Anyone experienced this before?

Thanks,
Gordon
N6WK

7477. Digital Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 16:40:26 UTC
From: N3DOK
Topic: 1768 Message: 7477

Hi,
In a current issue of ER Electric Radio magazine,is an ad for a Digital Display. The manual indicates it will work with Kenwood TS-520 . TS-511 . TS-900.
Contact them to see if it will work with your 520SE.

The Model DD-103 Universal Digital Dial provides accurate digital frequency readout for vintage receivers and transmitters. It has the offsets for many receivers and transmitters stored in permanent memory so it only requires the VFO signal. It is a direct plug-in with all Collins that have a VFO output. A TCXO provides 10Hz accuracy and .5ppm stability. Available as a kit or fully assembled and tested.

http://www.electronicspecialtyproducts.com/

I have no connection to this company. Passing this information along for anyone who might be interested.

Bob N3DOK

[Non-text portions of this message have been removed]

7478. Re: Digital Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 18:01:24 UTC
From: Roy Sakabu
Topic: 1768 Message: 7478

Check out these.

http://www.aade.com/#dfd

The prices look good and you can get it in just about any level of completion.

It looks like this guy is a true hobbyist in that he has taken the time to explain and show how to hook it up to almost any old radio and has helped lots of folks out.

--- In TS-520_820_530_830@yahoogroups.com, "needles69_2001" <mcars@...> wrote:
>
> Looking for a DG-5 digital display for my 520 SE. Or another make that
> will work. Any help or info ? Thanks
> Mike . WA3HDQ
>

7479. Re: TS-830 Sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-04 22:04:07 UTC
From: belbert2002
Topic: 5888 Message: 7479

This discussion relates to a problem/question I have regarding the CW sidetone pitch and the CW offset, which should be the same so I can easily zero beat the station I'm working. My problem is that the side tone is 700 Hz, which I like, but the offset is 800 Hz, which for me (like for Mike, AL2P) is too high. I have tried to lower the offset to 700 Hz by adjusting L4 on the VFO (per the SM) but it appears to shift the VFO frequency as well. As a result, the offset remains at 800 Hz. Am I doing something wrong?

Thanks. 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, Bill K0ZL <coorsbill@...> wrote:
>
> No, pitch is fixed.
>
> You will need to change C4 and C5 on the AF unit from
> 0.012 to 0.015 to lower the pitch. You will also need
> to adjust the CW offset on TX to match, so that when
> you tune a guy in to match the pitch of the sidetone,
> you will also be zero beat with him.
>
> Note, it is quite normal to run the IF pb tuning at 10
> o'clock on CW to make things match up (prior to any
> mods that is).
>
> bill
>
> --- Michael Sebring <msebring@...> wrote:
>
> > Ok i have looked and looked and read everything i
> > can find about the
> > side tone for this rig.
> > I know there is an adjustment for the sidetone
> > volume on the bottom of
> > the radio, but is there any way i can change the
> > sidetone pitch?
> > Kenwood has it set at about 800 htz and that is way
> > to hi for my old
> > ears.
> > Any help will be good.
> > Thanks
> > Mike
> > AL2P
> >

> >
> >
> >
> >
>
>
>
> When in doubt, MODIFY...
>

7480. Re: [TS-520_820_530_830] Re: TS-830 Sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 10:55:54 UTC
From: Walt Breining
Topic: 5888 Message: 7480

Changing C-4 and C-5 on the AF unit will lower the sidetone that you hear while you are transmitting. I think that you are already happy with it.

First of all, be sure that you have L4 back where it was. Now try adjusting VR3 in the PLL unit. Mark it with a felt tip marker so you can get it back where it was if you do not like the results or if I am wrong. I think VR3 will shift the CW carrier point on transmit. That will allow you to put your transmit in the right place when you tune the received CW signal for the desired pitch.

Vy 73, Walt N9WB

----- Original Message -----
From: "belbert2002" <k6zb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 04, 2006 5:04 PM
Subject: [TS-520_820_530_830] Re: TS-830 Sidetone

> This discussion relates to a problem/question I have regarding the CW
> sidetone pitch and the CW offset, which should be the same so I can
> easily zero beat the station I'm working. My problem is that the side
> tone is 700 Hz, which I like, but the offset is 800 Hz, which for me
> (like for Mike, AL2P) is too high. I have tried to lower the offset
> to 700 Hz by adjusting L4 on the VFO (per the SM) but it appears to
> shift the VFO frequency as well. As a result, the offset remains at
> 800 Hz. Am I doing something wrong?
>
> Thanks. 73, Bruce K6ZB
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill K0ZL <coorsbill@...>
> wrote:
> >
> > No, pitch is fixed.
> >
> > You will need to change C4 and C5 on the AF unit from
> > 0.012 to 0.015 to lower the pitch. You will also need
> > to adjust the CW offset on TX to match, so that when
> > you tune a guy in to match the pitch of the sidetone,
> > you will also be zero beat with him.
> >
> > Note, it is quite normal to run the IF pb tuning at 10
> > o'clock on CW to make things match up (prior to any
> > mods that is).
> >
> > bill
> >

> > --- Michael Sebring <msebring@...> wrote:
> >
> > > Ok i have looked and looked and read everything i
> > > can find about the
> > > side tone for this rig.
> > > I know there is an adjustment for the sidetone
> > > volume on the bottom of
> > > the radio, but is there any way i can change the
> > > sidetone pitch?
> > > Kenwood has it set at about 800 htz and that is way
> > > to hi for my old
> > > ears.
> > > Any help will be good.
> > > Thanks
> > > Mike
> > > AL2P
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > When in doubt, MODIFY...
> >
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

7481. Re: TS-830 no ALC in Tuning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 13:04:10 UTC
From: Ellen R
Topic: 7302 Message: 7481

No Problem Adrian. :) I remember when it happend to me for the first time, back in 1986. It completely threw me for a loop.

All I have left to do with my TS-820, is neutralize the finals. I haven't had the time to do it, but I ahve spent some time burning in the finals (at the suggestion of a friend of mine who used to be an RF tech for defense contractors out in California before Glaucoma made her eyesight too bad to do that kind of work [her vision is over 20/250, and she is legally blind]). I'm also waiting for a heavy duty, insulated RF adjustment tool to come in the mail from the same ex-RF Tech friend. The hopefully, thigs will be good to go with my TS-820.

73,
Ellen - AF9J

P.S. - I used to operate a TS-830S at the Univ. of WI ahm club in the 80s. It's a good rig.

--- In TS-520_820_530_830@yahoogroups.com, "alpyke" <alpyke@...> wrote:
>
> Hi Ellen:
>
> Just wanted to let you know, I finally did replace the 12BY7A tube
> last night, and that seems to have fixed the problem. I got it
> tuned up and was able to make my first contact. What a thrill!
>
> There is still something wrong with the ALC METER, or circuit,
> because there is still no ALC displayed, but by monitoring output
> power into the dummy load, I was able to peak RF output at about 80
> W. When I get some time, I may look into that later, but for now
it
> works.
>
> Thanks again and 73 - Adrian, KB1NFW
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Adrian,
> >
> > More than likely, the suggestions the other hams in the group
have
> > made will solve your problem. If you still have no ALC, after
> > checking for the things previously mentioned, you might want to

> check
> > one other thing - the 12BY7A driver tube. Usually if these are
> taken
> > care of, they last a long time. But if they're worn out, you can
> end
> > up with no Drive, and as a result, no ALC. I had this condition
> > exist, on both a TS-520S, and a FT-101B I had bought, in
college.
> In
> > both cases, I was trying them out for the first time. I replaced
> the
> > driver tube in each rig, and they tuned up fine, with plenty of
> ALC.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "alpyke" <alpyke@>
> > wrote:
> > >
> > > Hi All:
> > >
> > > I'm a new member of this group and a new owner of a TS-830S.
> I'm
> > > having some trouble getting it tuned up, and would really
> > appreciate
> > > any advice, help, guidance, suggestions etc.
> > >
> > > The problem is as follows:
> > >
> > > 1) I purchased a TS-830S off ebay. Prior user says it works.
> Who
> > > knows...
> > > 2) I've used it in receive only for a week or so, and it works
> fine.
> > > 3) I connected a dummy load (50 ohm) to the output, and tried
to
> > > tune it up. I've tried at several frequencies, with the same
> > result:
> > > 4) Following the procedure in the manual, I set the IP to 60
> ma.
> > > This works no problem. It was set to 70ma from the prior user,
> I
> > > turned it down slightly with the knob on the back and that
works.
> > > 5) The next step is to "peak the ALC". Here, when I set up
> > > according to the manual, I get nothing on the meter for ALC,
and
> > > also nothing on the output power meter I have with the dummy
> load.

> > > (I also tried FYI without the external power meter in the
> circuit,
> > > only the dummy load, just in case there was a problem with my
> power
> > > meter. Same result, ALC=0). To check the dummy load, I
> > > disconnected the ANT cable from the back of the TS-830, and
> > measured
> > > 50 ohms on the end of the cable that plugs into the TS-830.
> I've
> > > also tried adjusting the CAR to both extremes, same result.
> > > 6) I can see that the 2 final tubes (6146B's) are each
glowing.
> > > Also the tube that drives them (can't remember the number off
> hand)
> > > is glowing.
> > > 7) I haven't made any measurements, but I can if anybody knows
> > > (precisely) what I should measure. I do not have a VTVM, but I
> do
> > > have a DMM, and Analog multi-meter and a scope available.
> > >
> > > Thanks for any suggestions.
> > >
> > > 73 - Adrian, KB1NFW.
> > >
> >
>

7482. 820s Mic Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 15:32:04 UTC
From: digs4ruff
Topic: 7482 Message: 7482

Can anyone suggest a source for the 4 pin mic plug for the 820s.
thanks
Barry
VA7GEM

7483. Re: [TS-520_820_530_830] 820s Mic Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 16:00:50 UTC
From: Peter A Markavage
Topic: 7482 Message: 7483

Radio Shack and Radio World for starters.

Pete, wa2cwa

On Fri, 05 May 2006 15:32:04 -0000 "digs4ruff" <digs4ruff@...>
writes:
Can anyone suggest a source for the 4 pin mic plug for the 820s.
thanks
Barry
VA7GEM

[Non-text portions of this message have been removed]

7484. Re: [TS-520_820_530_830] 820s Mic Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 17:14:58 UTC
From: Dennis Windle
Topic: 7482 Message: 7484

www.kenselectronics.com has them, price and shipping is reasonable too.

D.Windle
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, May 05, 2006 11:32 AM
Subject: [TS-520_820_530_830] 820s Mic Plug

Can anyone suggest a source for the 4 pin mic plug for the 820s.
thanks
Barry
VA7GEM

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7485. Re: [TS-520_820_530_830] 820s Mic Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 17:29:39 UTC
From: KD5SFA
Topic: 7482 Message: 7485

Try http://www.buxcomm.com/ under replacement mic's.

I'd bought several items from there with no problems.

73,
Jon
KD5SFA

-----Original Message-----
>From: Peter A Markavage <pmarkavage@...>
>Sent: May 5, 2006 12:00 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] 820s Mic Plug
>
>Radio Shack and Radio World for starters.
>
>Pete, wa2cwa
>
>On Fri, 05 May 2006 15:32:04 -0000 "digs4ruff" <digs4ruff@...>
>writes:
>Can anyone suggest a source for the 4 pin mic plug for the 820s.
>thanks
>Barry
>VA7GEM
>
>[Non-text portions of this message have been removed]
>
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>

7486. Re: [TS-520_820_530_830] 820s Mic Plug

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 22:36:07 UTC
From: Brad Parks
Topic: 7482 Message: 7486

Try Ten-Tec or BuxComm----www.commparts.com Also many of the CB sites
carry 4pin connectors
73s
Brad WA4MAE

>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.385 / Virus Database: 268.5.2/329 - Release Date: 5/2/06
>
>

[Non-text portions of this message have been removed]

7487. Re: [TS-520_820_530_830] Re: TS-830 Sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-05 22:44:59 UTC
From: Pierre Wells
Topic: 5888 Message: 7487

Why not just set the receive RIT off by 100 cycles and leave it there whenever doing CW. A semi permanent mark on the RIT knob would let you get back to the 100 cycles 'offset' anytime.
Peter VE2FAR

belbert2002 <k6zb@arrl.net> wrote: This discussion relates to a problem/question I have regarding the CW
sidetone pitch and the CW offset, which should be the same so I can
easily zero beat the station I'm working. My problem is that the side
tone is 700 Hz, which I like, but the offset is 800 Hz, which for me
(like for Mike, AL2P) is too high. I have tried to lower the offset
to 700 Hz by adjusting L4 on the VFO (per the SM) but it appears to
shift the VFO frequency as well. As a result, the offset remains at
800 Hz. Am I doing something wrong?

Thanks. 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, Bill K0ZL <coorsbill@...>
wrote:
>
> No, pitch is fixed.
>
> You will need to change C4 and C5 on the AF unit from
> 0.012 to 0.015 to lower the pitch. You will also need
> to adjust the CW offset on TX to match, so that when
> you tune a guy in to match the pitch of the sidetone,
> you will also be zero beat with him.
>
> Note, it is quite normal to run the IF pb tuning at 10
> o'clock on CW to make things match up (prior to any
> mods that is).
>
> bill
>
> --- Michael Sebring <msebring@...> wrote:
>
> > Ok i have looked and looked and read everything i
> > can find about the
> > side tone for this rig.
> > I know there is an adjustment for the sidetone
> > volume on the bottom of
> > the radio, but is there any way i can change the
> > sidetone pitch?
> > Kenwood has it set at about 800 htz and that is way
> > to hi for my old
> > ears.

> > Any help will be good.
> > Thanks
> > Mike
> > AL2P
> >
> >
> >
> >
> >
>
>
>
> When in doubt, MODIFY...
>

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Blab-away for as little as 1¢/min. Make PC-to-Phone Calls using Yahoo! Messenger with Voice.

[Non-text portions of this message have been removed]

7488. TS830 RIT Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 02:35:13 UTC
From: qrper723
Topic: 7488 Message: 7488

Hi all,

my TS830V(Japanese Version) has problem of RIT operation.
It works and does not work intermittently.
Have to replace the potentio meter and varactor diode or any other
parts?

Any suggestions?

ja9mat hidehiko

7489. Thinking of Selling/Trading my 830 Equipment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 03:28:46 UTC
From: Kevin der Kinderen
Topic: 7489 Message: 7489

Hi Guys and Gals.

I recently purchased an FT1K and living in an apartment I need to keep things trimmed down a bit. So I plan to package up my 830 station and sell or **preferably** trade. I figured I would mention it here first before hitting the classifieds.

I would like to let it go as a whole package if possible. It will take me some time to package everything up properly so I won't ask for payment or trade until I'm ready to ship. Be patient, getting to the post office is difficult for me.

Let's get this out of the way right up front... I smoke. I'm not the original owner of the equipment and I cannot say whether the previous owners smoked also. The lettering on the first TS-830S looks clean and white to me.

TS-830S with CW filter in very good shape both visually and on the air. I have used it for CW, SSB and digital with fine reports all around. Reports of SSB audio with the MC-50 were always great. There are no mods on this equipment.

TS-830S - I just picked up this unit. I'm told that transmit and receive work fine but the display doesn't work. I just opened up the box to have a look at it. It's got rust marks on the case and the front doesn't look anywhere as nice as the TS-830 above. It seems this one got a lot of use and may have been in storage for a while. From the previous owner's description, repair should be pretty easy.

SP-230 - Works and looks real good.

VFO-230 - Works great. I never had reports of drifting on PSK-31, I think that's a good testament of its stability. I believe there is supposed to be a ring around the VFO knob but there isn't one there. Also, the interconnect cable to the TS-830 has one of the connectors heavily taped with electrical tape. It has never caused a problem. Remember the trick about resetting the VFO. This caught me the first time.

AT-230 - Works and looks great. I've had it open and it's clean inside and no evidence of any arcing.

SM-220 with BS-8 pan adapter - works and looks fantastic. This really makes the TS-830S system a joy to use.

SM-220 with BS-8 pan adapter - mostly working, looks OK. The pan adapter has a broken core in one of the coils. This causes low signal display in panoramic mode. I tried to order a replacement part from Kenwood but they no longer stock them. I can't believe this would be a hard part to find. I kept

it in case I needed spare parts.

MC-50 - works and looks real good.

MC-50 - some small chips in the paint, slight discoloration of the mouth piece (black part). I have not used this mic so I don't know how well it works. It came with the second TS-830S. The wear on it seems consistent with the second 830.

Spare tubes, no idea of their condition. They came with the second TS-830S:

1 - 12BY7 "Realistic Lifetime" has a Radio Shack price tag of $4.99
1 - GE GL-6146
3 - GE 6146B/8229A
1 - RCA 6146B/8229A
1 - Matsushita 2001A (6146??? - not sure what this is)

Various manuals (some original, some copies) and whatever cables I have for equipment interconnection.

That's the list. I can get much more detailed and and will try to answer any questions you have.

Check my call (K4VD) on QRZ.com for a picture of the station layout.

I've not settled on a price yet. Maybe you guys can tell me if $1500 for the package is unreasonable. However, I would prefer a trade. My current needs (actually wants) are a late model linear amp to cover at least 80/40/20/15/10, a rotor that can handle a Mosley CL33 (not very big), INRAD filters for the FT1K, Yaesu SP-8, Yaesu MD200 or MD100. Will consider almost anything.

I'll keep it here about a week - longer if there is some interest and then move over to eham.net and qth.com.

73,
Kevin - K4VD

[Non-text portions of this message have been removed]

7490. Re: TS-830 Sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 15:13:18 UTC
From: belbert2002
Topic: 5888 Message: 7490

Looking at the options and considering the analog nature of this fine rig, I have to agree with Pierre and just use the RIT for the desired CW offset. Thanks and 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, Pierre Wells <lool5552002@...> wrote:
>
> Why not just set the receive RIT off by 100 cycles and leave it there whenever doing CW. A semi permanent mark on the RIT knob would let you get back to the 100 cycles 'offset' anytime.
> Peter VE2FAR
>
> belbert2002 <k6zb@...> wrote: This discussion relates to a problem/question I have regarding the CW
> sidetone pitch and the CW offset, which should be the same so I can
> easily zero beat the station I'm working. My problem is that the side
> tone is 700 Hz, which I like, but the offset is 800 Hz, which for me
> (like for Mike, AL2P) is too high. I have tried to lower the offset
> to 700 Hz by adjusting L4 on the VFO (per the SM) but it appears to
> shift the VFO frequency as well. As a result, the offset remains at
> 800 Hz. Am I doing something wrong?
>
> Thanks. 73, Bruce K6ZB
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill K0ZL <coorsbill@>
> wrote:
> >
> > No, pitch is fixed.
> >
> > You will need to change C4 and C5 on the AF unit from
> > 0.012 to 0.015 to lower the pitch. You will also need
> > to adjust the CW offset on TX to match, so that when
> > you tune a guy in to match the pitch of the sidetone,
> > you will also be zero beat with him.
> >
> > Note, it is quite normal to run the IF pb tuning at 10
> > o'clock on CW to make things match up (prior to any
> > mods that is).
> >

> > bill
> >
> > --- Michael Sebring <msebring@> wrote:
> >
> > > Ok i have looked and looked and read everything i
> > > can find about the
> > > side tone for this rig.
> > > I know there is an adjustment for the sidetone
> > > volume on the bottom of
> > > the radio, but is there any way i can change the
> > > sidetone pitch?
> > > Kenwood has it set at about 800 htz and that is way
> > > to hi for my old
> > > ears.
> > > Any help will be good.
> > > Thanks
> > > Mike
> > > AL2P
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > When in doubt, MODIFY...
> >
>
>
>
>
>
>
>
> SPONSORED LINKS
> Ham
radio Craft
hobby Hobby and craft
supply

>
> ---
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com

>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---
>
>
>
>
>
> ---
> Blab-away for as little as 1¢/min. Make PC-to-Phone Calls using
Yahoo! Messenger with Voice.
>
> [Non-text portions of this message have been removed]
>

7491. Small Rubber Feet for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 15:18:40 UTC
From: belbert2002
Topic: 7491 Message: 7491

Does anyone know of a source for the rubber feet on the side of the 830S? The one listed for this group does not stock them. Thanks and 73, Bruce K6ZB

7492. WTB: VFO-520/SP-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 16:53:35 UTC
From: James D Harrison
Topic: 7492 Message: 7492

Hi,

I am looking for a VFO, and speaker to complete my TS-520S station, if anyone has some extras that are not needed, please contact me off group.

thanks James KG4PBI (stg57 at yahoo.com)

7493. Suitable 'outboard' AF filtering ideas...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 18:46:12 UTC
From: Roberto Baca Barnard
Topic: 5888 Message: 7493

My TS820 does not have the CW filter installed. Eventually may get
part or equivalent replacement...
I am interested in an 'outboard' AF level filter that I could build,
easily, myself. Anyone have a manageable design or reference to one?
Something I could plug the headphones into, a notch/XTAL or equiv. And
one that is self-contained (i.e. don't wanna run audio through
ProTools on the Mac).

Tnx
RBB WB7AVF

7494. V F O trio/kenwood ts820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 19:06:15 UTC
From: budgiebob2005
Topic: 7494 Message: 7494

I have this using with my ts520and working fine .
There is a problem in that the dial is not fully aligned . when you are say at 290 and move to 300 the no in the window remains at 2 ie 200 indicated not correct 300 Tuning up to 310 changes ok
What is correct way of aligning ? same all way across range thanks
Bob G8acq

7495. Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 20:46:25 UTC
From: Daniel
Topic: 7495 Message: 7495

Hello folks

I'm looking for *** instruction manuals *** for the TS-520SE + VFO-520S. Who has such nice paper works and couls send it to me via eMails as PDF?

73 de Daniel, HB9DDS

7496. Re: [TS-520_820_530_830] Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 20:58:13 UTC
From: Max Harelik
Topic: 7495 Message: 7496

Most Kenwood Manuals may be downloaded here:

http://www.mods.dk/index.php?ListManuals=kenwood

73,
Max, K5OVW

Daniel wrote:

> Hello folks
>
> I'm looking for *** instruction manuals *** for the TS-520SE +
> VFO-520S. Who has such nice
> paper works and couls send it to me via eMails as PDF?
>
> 73 de Daniel, HB9DDS
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of

> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

[Non-text portions of this message have been removed]

7497. Re: Suitable 'outboard' AF filtering ideas...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-06 22:11:54 UTC
From: Ellen R
Topic: 5888 Message: 7497

Hi Rob,

I hope you found my little explanation of why we neutralize new finals to be informative. I may be able to help you on the audio filter issue. Idiom Press markets a SCAF (switced capacitance audio filter) kit, for $90. Here's the URL to view more info on it:

http://www.idiompress.com/scaf-1.html

I had a couple of rigs (an Index Labs QRP Plus, and an SGC, SG-2020) that used SCAFs. They work pretty good, but you do have to live with the fact that very strong adjacent signals will cause the receiver's AGC to pump, and sort of "pinch" the signal. Otherwise, check on e-bay for a used Autek SCAF, or Timewave outboard, AF, DSP.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard" <barnardbaca@...> wrote:
>
> My TS820 does not have the CW filter installed. Eventually may get
> part or equivalent replacement...
> I am interested in an 'outboard' AF level filter that I could build,
> easily, myself. Anyone have a manageable design or reference to one?
> Something I could plug the headphones into, a notch/XTAL or equiv.
And
> one that is self-contained (i.e. don't wanna run audio through
> ProTools on the Mac).
>
> Tnx
> RBB WB7AVF
>

7498. Non-functioning notch on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 03:46:51 UTC
From: belbert2002
Topic: 7498 Message: 7498

I've been working on this rather worn 830S for a while and just discovered that the notch does not work. There is no difference between Notch on and Notch off, and the knob does nothing when on. The Notch light does come on, however. Any suggestions on what this might be due to? Thanks and 73, Bruce K6ZB

7499. Re: [TS-520_820_530_830] V F O trio/kenwood ts820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 07:49:32 UTC
From: Walt Breining
Topic: 7494 Message: 7499

Note that the inner ring can be turned separately from the outer knob by holding the outer knob and turning the inner knob. This is to calibrate the outer most dial with the red line.

The inner ring is one or several complete turns out of sequence causing your problem. Rotate the inner ring 360 degrees one way or the other.

See if the problem is better or worse. Continue to make 360 degree rotations of the inner ring in the direction that improves the problem until it is corrected.

Vy 73, Walt N9WB

----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, May 06, 2006 2:06 PM
Subject: [TS-520_820_530_830] V F O trio/kenwood ts820

> I have this using with my ts520and working fine .
> There is a problem in that the dial is not fully aligned . when you
> are say at 290 and move to 300 the no in the window remains at 2 ie
> 200 indicated not correct 300 Tuning up to 310 changes ok
> What is correct way of aligning ? same all way across range thanks
> Bob G8acq
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

7500. Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 11:09:42 UTC
From: Daniel
Topic: 7495 Message: 7500

Hi Max

I know this site. But I can not find an instruction manual for the 520SE + VFO-520S. I'm not
looking for a service manual or a instruction manual for the 520S. Only 520SE + VFO-520S.

Daniel, HB9DDS

7501. Re: [TS-520_820_530_830] Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 11:29:53 UTC
From: Bert Morton
Topic: 7495 Message: 7501

Daniel

This request has been posted many times. As I recall it was determined that a "free" online copy for the 520SE doesn't exist, not sure about the VFO 520S and I don't recall if there is a source to purchase them.

73,

Bert WADFOM
----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, May 07, 2006 7:09 AM
Subject: [TS-520_820_530_830] Re: Need instruction manuals for.....

Hi Max

I know this site. But I can not find an instruction manual for the 520SE + VFO-520S. I'm not
looking for a service manual or a instruction manual for the 520S. Only 520SE + VFO-520S.

Daniel, HB9DDS

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.5.5/333 - Release Date: 5/5/2006

[Non-text portions of this message have been removed]

7502. Re: [TS-520_820_530_830] Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 12:39:00 UTC
From: bob54quam@cs.com
Topic: 7495 Message: 7502

Daniel,
Manuals for the TS-520SE and the VFO 520S can be purchased from The Manual Man. He won't be processing orders until after May 28 because of the Dayton Hamfest, but the manuals are available: www.manualman.com
I have purchased a few manuals from him and they are good quality copies.
Hope this helps. Good luck!
Bob
KI0KM

[Non-text portions of this message have been removed]

7503. Re: [TS-520_820_530_830] TS830 RIT Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 14:51:10 UTC
From: Pierre Wells
Topic: 7488 Message: 7503

Try a cleaning product that you inject into the potentometer.Practically any type of electronic contact cleaner will do.
Peter VE2FAR

qrper723 <qrper72@...> wrote:
Hi all,

my TS830V(Japanese Version) has problem of RIT operation.
It works and does not work intermittently.
Have to replace the potentio meter and varactor diode or any other
parts?

Any suggestions?

ja9mat hidehiko

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

7504. Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 16:08:52 UTC
From: Daniel
Topic: 7495 Message: 7504

Hello Bert

Nobody is talking that I wont a "free" copy of the operating manual TS-520SE. Just looking for and pay. But also the manualman has not one for the 520SE.

Thats the problem! I'm surprised, that this will be so difficult...

I'm looking forward to get one.

Daniel, HB9DDS

7505. Re: V F O trio/kenwood ts820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 16:27:53 UTC
From: ke9zm
Topic: 7494 Message: 7505

I went through this process and can tell you that it's kind of a fun process to see how all these wheels work. I took mine apart to the last wheel. If you do so, when you reassemble, be aware that there are some close tolerances between the 2 spinning wheels. They need to spin independently and if you hear some "grinding" when you spin the vfo the wheels are too close and they are rubbing against each other. On mine, it was a very delicate adjustment and if the dials are any bit warped you might have a problem.

The TS820S (user or service - cant remember) tell you how to align these wheels. There is a special alignmant mark on one of them. But if you have a freq display then you can get the right alignment by trial and error as Walt suggests.

ke9zm

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Note that the inner ring can be turned separately from the outer knob by
> holding the outer knob and turning the inner knob. This is to calibrate the
> outer most dial with the red line.
>
> The inner ring is one or several complete turns out of sequence causing your
> problem. Rotate the inner ring 360 degrees one way or the other.
>
> See if the problem is better or worse. Continue to make 360 degree rotations
> of the inner ring in the direction that improves the problem until it is
> corrected.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "budgiebob2005" <budgiebob@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, May 06, 2006 2:06 PM
> Subject: [TS-520_820_530_830] V F O trio/kenwood ts820
>
>
> > I have this using with my ts520and working fine .
> > There is a problem in that the dial is not fully aligned . when

you
> > are say at 290 and move to 300 the no in the window remains at
2 ie
> > 200 indicated not correct 300 Tuning up to 310 changes ok
> > What is correct way of aligning ? same all way across range
thanks
> > Bob G8acq
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

7506. Re: [TS-520_820_530_830] Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 16:42:26 UTC
From: Bert Morton
Topic: 7495 Message: 7506

Perhaps "free" was a poor choice of words, but your post didn't really indicate you were looking to buy one...

If I recall you asked if someone had one they could email to you...sorry I misunderstood your request..

There is a service manual both online free and for purchase that explains the difference between a 520S and 520SE...
----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, May 07, 2006 12:08 PM
Subject: [TS-520_820_530_830] Re: Need instruction manuals for.....

Hello Bert

Nobody is talking that I wont a "free" copy of the operating manual TS-520SE. Just looking for and pay. But also the manualman has not one for the 520SE.

Thats the problem! I'm surprised, that this will be so difficult...

I'm looking forward to get one.

Daniel, HB9DDS

[Non-text portions of this message have been removed]

7507. Re: Suitable 'outboard' AF filtering ideas...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 16:53:21 UTC
From: Roberto Baca Barnard
Topic: 5888 Message: 7507

The SCAF seems more than adequate. And fairly reasonable as a kit. Intl Radio sells replacement filter for TS820 for around 100 USD. tnx for the info!

> Hi Rob,
>
> I hope you found my little explanation of why we neutralize new finals
> to be informative. I may be able to help you on the audio filter
> issue. Idiom Press markets a SCAF (switced capacitance audio filter)
> kit, for $90. Here's the URL to view more info on it:
>
> http://www.idiompress.com/scaf-1.html
>
> I had a couple of rigs (an Index Labs QRP Plus, and an SGC, SG-2020)
> that used SCAFs. They work pretty good, but you do have to live with
> the fact that very strong adjacent signals will cause the receiver's
> AGC to pump, and sort of "pinch" the signal. Otherwise, check on e-bay
> for a used Autek SCAF, or Timewave outboard, AF, DSP.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard"
> <barnardbaca@> wrote:
> >
> > My TS820 does not have the CW filter installed. Eventually may get
> > part or equivalent replacement...
> > I am interested in an 'outboard' AF level filter that I could build,
> > easily, myself. Anyone have a manageable design or reference to one?
> > Something I could plug the headphones into, a notch/XTAL or equiv.
> And
> > one that is self-contained (i.e. don't wanna run audio through
> > ProTools on the Mac).
> >
> > Tnx
> > RBB WB7AVF
> >
>

7508. Re: [TS-520_820_530_830] Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 19:06:58 UTC
From: Peter A Markavage
Topic: 7495 Message: 7508

Yep! Finding an operating manual for a 520SE has always been a problem
even for me. Probably due to the fact the 520SE wasn't around for that
long of a time and Kenwood probably didn't print a lot for separate sale.
Even the service manual, if I remember correctly without running down to
the file room, was just an addendum attached to a 520S service manual.

Pete, wa2cwa
www.manualman.com

On Sun, 07 May 2006 16:08:52 -0000 "Daniel" <schaeffler@...> writes:
Hello Bert

Nobody is talking that I wont a "free" copy of the operating manual
TS-520SE. Just looking
for and pay. But also the manualman has not one for the 520SE.

Thats the problem! I'm surprised, that this will be so difficult...

I'm looking forward to get one.

Daniel, HB9DDS

[Non-text portions of this message have been removed]

7509. Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 19:59:50 UTC
From: Daniel
Topic: 7495 Message: 7509

Thanks pete for your words ;-)

Is the TS-520S and the TS-520SE so different?? The main difference ist the missing CW switch
on the TS-520S and the separate heater switch on the TS-520SE. Are there some other different things?

Daniel, HB9DDS

7510. Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 19:59:56 UTC
From: Daniel
Topic: 7495 Message: 7510

Thanks Pete for your words ;-)

Is the TS-520S and the TS-520SE so different?? The main difference ist the missing CW switch
on the TS-520S and the separate heater switch on the TS-520SE. Are there some other different things?

Daniel, HB9DDS

7511. Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-07 22:11:47 UTC
From: Ravenswood
Topic: 7495 Message: 7511

I've seen a kazillion requests for the TS-520SE INSTRUCTION manual.

I've looked around on the 'net for it and haven't found anything but the service manual, so thought I'd do something about it.

If ya hang on for a week or so, I've purchased one on eBay (my username, for those interested, is eagleeyecomputerinc) and I'll scan it in asap.

Since there's no room here to post files, it'll be in the astaticmicrophones group on Yahoo. I'll post another notice when it's up.

Please stand by.

73, Frank K2NCC

7512. The TS-820 is done - finally!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 01:18:11 UTC
From: Ellen R
Topic: 7512 Message: 7512

HI Everybody,

I think I'm finally done working on my TS-820 for now. I've been sick for the past couple of weeks with a sinus infection, and the cluster migraine headaches, and exhaustion that were brought on by the infection. I neutralized my new finals an hour and a half ago (my Oak Hills Research WM2, QRP wattmeter [that reads as low as 1mW], was sensitive enough to give me the null readings I needed), and I just finshed closing it up again, 10 minutes ago (I had to open it up to move an IF board jumper plug, for my now installed 500 Hz CW filter to work properly - oops!).

Now it's time to give it a test drive, and get some of that audio data I promised you guys, I'd get on the Ken's Electronics mic I bought a few weeks ago for it. Once again, thanks to Walt, N9WB, and anybody else who helped me to get this fine rig up and running again.

If anybody would like a sked, let me know.

73,
Ellen - AF9J

7513. Re: Non-functioning notch on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 04:01:32 UTC
From: belbert2002
Topic: 7498 Message: 7513

Problem solved. I went back through the Notch Adjustment on page 27 of the instruction manual and that put the notch back into service. It's a bit tricky because you can't hear the 1500 Hz hetrodyne from the cal oscillator unless you fiddle with the VBT and IF shift. But, basically, all you do is tweek L10 and VR4 (which is now at the end of travel) on the IF board. 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> I've been working on this rather worn 830S for a while and just
> discovered that the notch does not work. There is no difference between
> Notch on and Notch off, and the knob does nothing when on. The Notch
> light does come on, however. Any suggestions on what this might be due
> to? Thanks and 73, Bruce K6ZB
>

7514. Re: TS830 RIT Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 09:27:49 UTC
From: qrper723
Topic: 7488 Message: 7514

Peter,

Thanks for advice.
Yes I will try to clean the VR fisrt.

hidehiko ja9mat

> Try a cleaning product that you inject into the
potentometer.Practically any type of electronic contact cleaner will do.
> Peter VE2FAR

7515. Replacing PD diodes and alignment question..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 13:24:13 UTC
From: Duncan Cameron
Topic: 7515 Message: 7515

Hello all.
I plan on replacing the Product Detector Diodes, on a Kenwood TS-830, with better diodes and wondered if any of you had done this and had also added the 100 ohm resistor suggested in the TS-830 mods handbook? Is it necessary? As far as alignment following the diode replacement; I have a Heath 610 monitor scope, and Simpson Volt/Ohmmeter (I could probably build an RF probe to use with the meter), but wondered if there were another method I could use to complete the alignment.
Any thoughts on the QRO mod for the TS-830? I have seen some comments that it is a really bad idea, and other comments stating that it is an improvement.
Thanks very much!
Scott/KA1MUY

7516. Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 13:06:02 UTC
From: Bill Barron
Topic: 7495 Message: 7516

Try http://www.n2ckh.com/library.htm

73,
Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> Hi Max
>
> I know this site. But I can not find an instruction manual for the
520SE + VFO-520S. I'm not
> looking for a service manual or a instruction manual for the 520S.
Only 520SE + VFO-520S.
>
> Daniel, HB9DDS
>

7517. Re: [TS-520_820_530_830] Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 15:38:26 UTC
From: Joan de vk5kyo
Topic: 7495 Message: 7517

Hello group
I don't know how useful this is and if anyone has used their services,
but here is a paste of something I found.
Regards Joan VK5KYO

Dear Kenwood Customer:
Thank you for your e-mail inquiry.
For replacement Service or Instruction Manuals that are no longer
available from
Kenwood, please order it from the companies listed below.

Howard W. Sams
2647 Waterfront Parkway East Dr.
Indianapolis, IN 46214-2041
(800) 428-7267
(317) 298-5566

http://www.samswebsite.com/

Hi-Manuals
P.O. Box 802
Council Bluffs, IA 51502

http://www.hi-manuals.com/

W7FG Vintage Manuals
402731 West 2155 Drive
Bartlesville, Oklahoma 74006
Telephone: 918-333-3754
Order Line: 800-807-6146
FAX: 918-774-9180 (orders only)

http://www.w7fg.com/

ManualMan
27 Walling Street
Sayreville, NJ 08872
732-238-8964

http://www.manualman.com/

Manuals

http://www.manualmall.com/

If you need further assistance, please feel free to e-mail us again.

Sincerely,
Kenwood Customer Care

Bert Morton wrote:

> Perhaps "free" was a poor choice of words, but your post didn't really
> indicate you were looking to buy one...
>
> If I recall you asked if someone had one they could email to
> you...sorry I misunderstood your request..
>
> There is a service manual both online free and for purchase that
> explains the difference between a 520S and 520SE...
> ----- Original Message -----
> From: Daniel
>

7518. Re: [TS-520_820_530_830] Re: Need instruction manuals for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 16:02:53 UTC
From: Joan de vk5kyo
Topic: 7495 Message: 7518

Hi Daniel

The differences between the 520S and 520SE are outlined on the second page of the 520SE Service manual.
The link below will get you to one on a few sites with the SE Service manual.
http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=9888

I hope this helps.
The other 2 links may be useful too.

http://www.n2ckh.com/TS520SE_DOCS.htm (520SE Instruction manual but looks incomplete)
http://www.eserviceinfo.com/downloadsm/6796/kenwood_TS-520e.html (another 520SE Service manual)

Joan VK5KYO

Daniel wrote:

> Thanks pete for your words ;-)
>
> Is the TS-520S and the TS-520SE so different?? The main difference ist
> the missing CW switch
> on the TS-520S and the separate heater switch on the TS-520SE. Are
> there some other
> different things?
>
> Daniel, HB9DDS
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>

>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.392 / Virus Database: 268.5.5/333 - Release Date: 5/05/2006
>
>

7519. Question about TS-830S diode mod?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 16:32:27 UTC
From: N3DOK
Topic: 7519 Message: 7519

Hi, Has anyone done this modification of diode replacement? It is shown on KK5DRs website. Along with other Kenwood TS-830S mods.
Thanks for everyone's help. I had my first TS-830S in 1983. Traded in that one. I missed the sound and performance of the 830. So I have 2 now.
Bob N3DOK

http://www.kk5dr.com/830S.htm
Excessive white-noise, along with peak signal distortions on receive:
This problem is due to the type of diodes used in various sections of the receiver, as well as noise from other sections of the radio. The diodes in the product-detector are of poor quality, and can generate lots of white noise. I used 1N6263 Schottky-barrier diodes for this modification. These diodes should be carefully matched by junction resistance and junction capacitance. Remove the "El-cheapo" 1N60 diodes from the product-detector and install the new ones. The carrier level must be reset after the installation. This is easy to do with the service manual, and an oscilloscope that has a voltage calibrated display. You might ask if this mod is worth the effort, I was able to measure an improvement of about a 40% reduction in noise levels in the receiver. I notice the receiver has a smoother, less harsh sound and reproduction of the signal after the modification. The lowering of the steady background hiss reduces listening fatigue. The picture below shows a set of these diodes installed. Diodes D-20 to 23 are the product detector, on the IF board.

Distortions on peak transmit signal:

This problem is nearly identical to the product-detector. The Balanced-modulator is a mirror image of the product-detector. Kenwood also used cheap noisy 1N60 diodes here. Again, I used 1N6263 diodes, and carefully matched a quad (four-piece) set, and installed them. In this circuit the carrier level must be minimized. Use the service manual and an oscilloscope, adjusting the setting for a null in the displayed waveform. Diodes D-29 to 32 are the balanced-modulator on the opposite side of the IF board.

Noisy diodes in filter switching circuits:

Kenwood selected some rather poor diodes which switch in or out the various filters on the IF board. These cheap diodes can introduce white noise, and distortions on the signal passing through them. It would have been nice to use the
Schottky-barrier diodes here too, but the DC switching currents in the circuit is too high for them, so I used 1N4148 general purpose switching diodes, which are still far better than the diodes originally installed in the circuits.

[Non-text portions of this message have been removed]

7520. YG455C Filter for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-08 20:52:24 UTC
From: belbert2002
Topic: 7520 Message: 7520

If anyone has one of these 500 Hz CW filters and is willing to part with it, please let me know (email preferred - price to be agreed).
Thanks and 73, Bruce K6ZB

7521. TS520SE Service Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 12:32:28 UTC
From: Ruben
Topic: 7521 Message: 7521

I tried uploading the TS520SE Service Manual but the system would not
accept it. Not enough disk space. If anyone needs it email me direct
and I'll send it to you ka2hhb_2000@... ......
Best 73 Ruben

7522. Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 17:47:12 UTC
From: AllanKB5DOH
Topic: 7522 Message: 7522

Hi, To one and all, I have a quest would any of the members have knowlage of where I can get a inexpensive crystal kit that a 14 year old boy can put together and listen to ham radio, I say inexpensive because I can not afford to much but want to send this boy one of these kits in hope that it will drive his cureousity to the point that he will want to know more and get his amateur license. He is also very interested in computers and learning to develope games and other programs I feel this boy has potential and I want to give this boy some drive and encourage him in/on his dreams.

Let me know what is out there for these crystal radio recievers.

God Bless You and Yours

Allan=kb5doh

7523. Permission Request

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 17:58:37 UTC
From: AllanKB5DOH
Topic: 7523 Message: 7523

Hi, Allan=kb5doh here I am asking permission from the group owner to put a link of this group in my group links so that others will know and have a chance to join this group.

Allan=kb5doh May God Bless and 73

My Group is the Siltronix 1011 Bunch and Swan-Siltronix Swap and Sell Group.

7524. RE: [TS-520_820_530_830] Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 18:05:59 UTC
From: Louis A. Bellock
Topic: 7522 Message: 7524

Hello Allan,
Go to eBay. I have seen many varieties of new and vintage crystal kits for bargain prices. Having been in this boy's position, if I was you I might shy away from a crystal kit for "shortwave" listening. The difficulty of working a crystal kit and the lack of freq selectivity might discourage your young friend. That's what happened to me.
My interest in shortwave radio peaked up when I found out about simple regenerative sets. Today you can also buy very inexpensive regenerative receiver kits, hollow- or solid-state, and get 10 fold performance on the shortwave bands with much less difficulty in operation with greatly improved selectivity. You can also find these kits on eBay.

I would also suggest going to AES at the link below:
http://www.tubesandmore.com/
They have a 1-tube regen kit good to 8 Mhz for $22.50 and a 2-tube for $34.50.

Lastly, for an easy-to-assemble solid state kit go to MFJ and look at the 8100 at:
http://www.mfjenterprises.com/products.php?prodid=MFJ-8100K

Good luck building/listening! You and your young friend should have a ball.

73, Lou N2JPR

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of AllanKB5DOH
Sent: Tuesday, May 09, 2006 1:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Crystal Reciever

Hi, To one and all, I have a quest would any of the members have knowlage of where I can get a inexpensive crystal kit that a 14 year old boy can put together and listen to ham radio, I say inexpensive because I can not afford to much but want to send this boy one of these kits in hope that it will drive his cureousity to the point that he will want to know more and get his amateur license. He is also very interested in computers and learning to develope games and other programs I feel this boy has potential and I want to give this boy some drive and encourage him in/on his dreams.

Let me know what is out there for these crystal radio recievers.

God Bless You and Yours

Allan=kb5doh

Yahoo! Groups Links

7525. RE: [TS-520_820_530_830] Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 18:24:23 UTC
From: Allan
Topic: 7522 Message: 7525

Thanks Lou, I am taking what you said to mind makes much sence so will look at both and put the funds together, the boy communicates with me via email and IM and to some people would be called a bother but I was a kid once and he kind of reminds me of me lol and thats not all I have a 18yo son about to join the Nat. Gaurd a 22yo daughter in the Nat. Gaurd full time and a 16yo son wanting to go Army or Marines he has not made his choice yet. Me Vietnam Veteran Army Big Red One.

Thanks again and May God Bless You and Yours. 73

Allan = kb5doh

"Louis A. Bellock" <lbellock@...> wrote:
Hello Allan,
Go to eBay. I have seen many varieties of new and vintage crystal kits for bargain prices. Having been in this boy's position, if I was you I might shy away from a crystal kit for "shortwave" listening. The difficulty of working a crystal kit and the lack of freq selectivity might discourage your young friend. That's what happened to me.
My interest in shortwave radio peaked up when I found out about simple regenerative sets. Today you can also buy very inexpensive regenerative receiver kits, hollow- or solid-state, and get 10 fold performance on the shortwave bands with much less difficulty in operation with greatly improved selectivity. You can also find these kits on eBay.

I would also suggest going to AES at the link below:
http://www.tubesandmore.com/
They have a 1-tube regen kit good to 8 Mhz for $22.50 and a 2-tube for $34.50.

Lastly, for an easy-to-assemble solid state kit go to MFJ and look at the 8100 at:
http://www.mfjenterprises.com/products.php?prodid=MFJ-8100K

Good luck building/listening! You and your young friend should have a ball.

73, Lou N2JPR

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of AllanKB5DOH
Sent: Tuesday, May 09, 2006 1:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Crystal Reciever

Hi, To one and all, I have a quest would any of the members have knowlage of where I can get a inexpensive crystal kit that a 14 year old boy can put together and listen to ham radio, I say inexpensive

because I can not afford to much but want to send this boy one of
these kits in hope that it will drive his cureousity to the point that
he will want to know more and get his amateur license. He is also very
interested in computers and learning to develope games and other
programs I feel this boy has potential and I want to give this boy
some drive and encourage him in/on his dreams.

Let me know what is out there for these crystal radio recievers.

God Bless You and Yours

Allan=kb5doh

Yahoo! Groups Links

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Signed: Allan kb5doh

"Do On To Others as You would Have them Do On To You"
(Join The Hobby of Amateur Radio and Have Fun and Meet People Around The World)
Link http://groups.yahoo.com/group/Siltronix1011Bunch/
Link http://pages.prodigy.net/a1mc
Link www.marykay.com/rebekahs

[Non-text portions of this message have been removed]

7526. Re: [TS-520_820_530_830] Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 22:24:38 UTC
From: Walt Breining
Topic: 7522 Message: 7526

TenTec has some nice kits.
Walt N9WB

----- Original Message -----
From: "Louis A. Bellock" <lbellock@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 09, 2006 1:05 PM
Subject: RE: [TS-520_820_530_830] Crystal Reciever

> Hello Allan,
> Go to eBay. I have seen many varieties of new and vintage crystal kits for
> bargain prices. Having been in this boy's position, if I was you I might
shy
> away from a crystal kit for "shortwave" listening. The difficulty of
working
> a crystal kit and the lack of freq selectivity might discourage your young
> friend. That's what happened to me.
> My interest in shortwave radio peaked up when I found out about simple
> regenerative sets. Today you can also buy very inexpensive regenerative
> receiver kits, hollow- or solid-state, and get 10 fold performance on the
> shortwave bands with much less difficulty in operation with greatly
improved
> selectivity. You can also find these kits on eBay.
>
> I would also suggest going to AES at the link below:
> http://www.tubesandmore.com/
> They have a 1-tube regen kit good to 8 Mhz for $22.50 and a 2-tube for
> $34.50.
>
> Lastly, for an easy-to-assemble solid state kit go to MFJ and look at the
> 8100 at:
> http://www.mfjenterprises.com/products.php?prodid=MFJ-8100K
>
> Good luck building/listening! You and your young friend should have a
ball.
>
> 73, Lou N2JPR
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of AllanKB5DOH
> Sent: Tuesday, May 09, 2006 1:47 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Crystal Reciever
>

> Hi, To one and all, I have a quest would any of the members have
> knowlage of where I can get a inexpensive crystal kit that a 14 year
> old boy can put together and listen to ham radio, I say inexpensive
> because I can not afford to much but want to send this boy one of
> these kits in hope that it will drive his cureousity to the point that
> he will want to know more and get his amateur license. He is also very
> interested in computers and learning to develope games and other
> programs I feel this boy has potential and I want to give this boy
> some drive and encourage him in/on his dreams.
>
> Let me know what is out there for these crystal radio recievers.
>
> God Bless You and Yours
>
> Allan=kb5doh
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

7527. 820S VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-09 22:37:03 UTC
From: Gordon
Topic: 7527 Message: 7527

My Trio 820S is Now working with the New Transformer. I built the Transformer protector that Walt had mentioned. Works Great and cost less then $10 bucks to build. Thanks Walt!

My question now is this. I have to take the VFO apart and clean the Wiper on it as it jumps around in Freq when tuning around the bands. Do I need to Lube it or just clean it with De Oxit 5 ?
Any Advice ??

Gordon
N6WK

7528. 820S VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 00:10:27 UTC
From: Gordon
Topic: 7527 Message: 7528

Ok, Went ahead and Cleaned the Wiper on the Cap. VFO is ROCK solid
Now. I only used the De Oxit 5, no lubricant so If I need to lube it,
I'll have to take it back apart.

Thanks,
Gordon
N6WK

7529. Crystal Radio Build it yourself.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 02:26:23 UTC
From: N3DOK
Topic: 7529 Message: 7529

Hi,

Use the search engine Google. Search for Build Crystal Radio. Found are sites that show you how to build a Crystal Radio from house hold parts. Another one to look for is Build a Foxhole radio. Yes you can purchase a kit. But its fun and educational building a crystal radio using a Oatmeal Box. One great web site is the Xtal Set Society. Here you will find it all!
A) Crystal sets help us to understand the technical history of the 20th century. Three, of many, examples: In very early commercial radio, crystal sets provided inexpensive receivers that allowed a large listening market to develop. During World War II, improved crystal diodes made British and American radar receivers more sensitive than German models. Crystal diode research provided materials and techniques used in the invention of the transistor.

B) Crystal sets provide a step-wise introduction to electronics. Most beginner crystal sets need only an antenna, ground, coil, capacitor, diode or crystal and headphones. Once these few components have been mastered, the student can advance step-by-step by adding a radio-frequency transformer, a one-transistor amplifier and so on until an understanding of most common electronic components is gained.

C) Many modern electronic systems still contain crystal set-like circuits. A few examples: The detector section of AM radios, field strength meters (for measuring antenna performance), broadcast station air diodes (allowing a broadcaster to monitor a small sample of the transmitted signal), radar receiver mixers and instrument devices transferring signals generated at one ground reference voltage to processing circuits having a different ground reference.

D) Challenge and reward: A fourth grader can find satisfaction in successfully completing a simple kit while a subtle semiconductor problem can challenge a senior engineer or physicist.

73, Bob N3DOK

[Non-text portions of this message have been removed]

7530. Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 04:05:27 UTC
From: Gordon
Topic: 7530 Message: 7530

Ok, Put the New Transformer in, Cleaned the VFO and the Receive part
works GREAT, Even The Digital Display is RIGHT ON frequency... But...
NO transmit. I have NO grid Current (yes the SG switch is on) and NO
plate current. I show about 900 Volts (on the Meter) of Plate Voltage.
So, I replaced the Driver and Both Finals... Still Nothing....
Any suggestions from you Guru's??
Walt... I think I need you..

Gordon
N6WK

7531. Re: [TS-520_820_530_830] Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 09:00:38 UTC
From: Walt Breining
Topic: 7522 Message: 7531

Allan:
I played around quite a bit with crystal sets as a kid and could not get one to receive short wave. Perhaps I did not know what I was doing 45 years ago or perhaps it was that I lived in Indianapolis near some very high power AM broadcast stations. While it would be fun for him to build a crystal set, all he probably will hear is AM broadcast stations. Since these are quite easy to build from scratch, it still might be a good introductory project.

Ten Tec make a Regenerative 4 band short wave receiver kit that is reasonably priced.. They market them individually or in packs of 5 for classroom use. I don't know how well these will do with SSB.

Here is the link to the info:
http://radio.tentec.com/kits/Receiver

Vy 73, Walt N9WB

----- Original Message -----
From: "Louis A. Bellock" <lbellock@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 09, 2006 1:05 PM
Subject: RE: [TS-520_820_530_830] Crystal Reciever

> Hello Allan,
> Go to eBay. I have seen many varieties of new and vintage crystal kits for
> bargain prices. Having been in this boy's position, if I was you I might
shy
> away from a crystal kit for "shortwave" listening. The difficulty of
working
> a crystal kit and the lack of freq selectivity might discourage your young
> friend. That's what happened to me.
> My interest in shortwave radio peaked up when I found out about simple
> regenerative sets. Today you can also buy very inexpensive regenerative
> receiver kits, hollow- or solid-state, and get 10 fold performance on the
> shortwave bands with much less difficulty in operation with greatly
improved
> selectivity. You can also find these kits on eBay.
>
> I would also suggest going to AES at the link below:
> http://www.tubesandmore.com/
> They have a 1-tube regen kit good to 8 Mhz for $22.50 and a 2-tube for
> $34.50.
>
> Lastly, for an easy-to-assemble solid state kit go to MFJ and look at the
> 8100 at:
> http://www.mfjenterprises.com/products.php?prodid=MFJ-8100K

>
> Good luck building/listening! You and your young friend should have a
ball.
>
> 73, Lou N2JPR
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of AllanKB5DOH
> Sent: Tuesday, May 09, 2006 1:47 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Crystal Reciever
>
> Hi, To one and all, I have a quest would any of the members have
> knowlage of where I can get a inexpensive crystal kit that a 14 year
> old boy can put together and listen to ham radio, I say inexpensive
> because I can not afford to much but want to send this boy one of
> these kits in hope that it will drive his cureousity to the point that
> he will want to know more and get his amateur license. He is also very
> interested in computers and learning to develope games and other
> programs I feel this boy has potential and I want to give this boy
> some drive and encourage him in/on his dreams.
>
> Let me know what is out there for these crystal radio recievers.
>
> God Bless You and Yours
>
> Allan=kb5doh
>
>

7532. Re: [TS-520_820_530_830] Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 10:37:32 UTC
From: Walt Breining
Topic: 7530 Message: 7532

Gordon:

First, look and see if the filaments are lighting in all 3 tubes.
Be sure that nothing is plugged in the CW key jack.
Be in a Amateur band, band position not WWV.

Next with the rig in SSB, mike gain fully DOWN place meter switch to IC and see if you get any IC as you turn the bias control on the back of the rig.

ONLY, If you do see a IC reading do the following:

Set it for 60 ma.with the bias control. (SSB-mike gain down)
Place meter in ALC, switch to CW, carrier control fully up, see if you can get a ALC reading by adjusting the drive control.
Now place the meter back in IC and see if you can see the IC go above 60 ma by adjusting the drive control.

ONLY If you CANNOT get an IC reading in the first step above do the following instead.

With the rig on and in transmit measure the DC voltage at the point labeled SG on the bottom of the final board. It will be around 210 VDC on all modes except tune and about half that on tune.

Now, unplug the rig, let it set for a few minutes and discharge the high voltage.

On the final unit board,

With an ohm meter check R 5 and R 6, they should read 100 ohms each. The Screen voltage goes through these resistors. It is common for these to open due to a bad tube.

Check R 2 and R 3 they should read 5 ohms total. They are 10 ohms each and are in parallel. The tube cathode current flows through these. It is also common for these to open due to a bad tube.

Check L1 and L2. They should read 0 ohms. Screen and control grid bias goes through these choke coils.

Let me Know whether all of this checks out.

If any of the above parts are bad, after replacing them use the light bulb in case of a tube short.

Vy 73, Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>

To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 09, 2006 11:05 PM
Subject: [TS-520_820_530_830] Ts-820S

> Ok, Put the New Transformer in, Cleaned the VFO and the Receive part
> works GREAT, Even The Digital Display is RIGHT ON frequency... But...
> NO transmit. I have NO grid Current (yes the SG switch is on) and NO
> plate current. I show about 900 Volts (on the Meter) of Plate Voltage.
> So, I replaced the Driver and Both Finals... Still Nothing....
> Any suggestions from you Guru's??
> Walt... I think I need you..
>
> Gordon
> N6WK
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7533. Re: [TS-520_820_530_830] 820S VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 13:37:21 UTC
From: Charles Mortimer
Topic: 7527 Message: 7533

hi Gordon
careful when you get into the vfo
wipers require a good clean de oxit try to keep oil away from the
wipers they work better when dry what oil tends to do is collect dust and
other substances and this creates a build up and loss of contact
use oil on the bearings only one drop ideal oiler is a drug store syringe
and thin sewing machine oil NOT automobile oil too thick just looking
for the merest drop that will be enough whilst you have the vfo out
you might as well clean and lubricate the vfo gear train that is a simple
job but a little tricky document how the dials come of and be care full
of the preloaded spring in-between the main gear wheal which fit back to
back the reason for these gears being back to back with a preloaded is to
stop any play in the vfo dial (in other words it keeps pressure on the
vfo cog) use a digital camera when you disassemble it and mark the
dials in there position and when re assembling set them up with a
frequency counter so that they will run true to your to the frequency
counter or set them up with a near by receiver with a digital display
and zero beat the 820 with the chosen frequency on the receiver
.....its a simple job but work methodically lay everything out as it comes
of the spindle do not take the vfo apart use the cleaner and work the vfo
back and forwards this is usually enough to clean the wipers also those
cotton buds on the end of small sticks soaked in de oxit are handy best
of luck
Charles vk6ycj
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 10, 2006 6:37 AM
Subject: [TS-520_820_530_830] 820S VFO

> My Trio 820S is Now working with the New Transformer. I built the
> Transformer protector that Walt had mentioned. Works Great and cost
> less then $10 bucks to build. Thanks Walt!
>
> My question now is this. I have to take the VFO apart and clean the
> Wiper on it as it jumps around in Freq when tuning around the bands.
> Do I need to Lube it or just clean it with De Oxit 5 ?
> Any Advice ??
>
> Gordon
> N6WK
>
>
>
>

>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7534. Re: [TS-520_820_530_830] Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 14:37:16 UTC
From: dennis hatch
Topic: 7530 Message: 7534

Check control grid bias and screen grid bias voltages.....you probably have an open resistor in the bias power supply circuitry.....visual inspection most likely will tell you where the problem is...look for a broken or burned & discolored resistor.
WA0WAB

Gordon <n6wk@...> wrote:
Ok, Put the New Transformer in, Cleaned the VFO and the Receive part
works GREAT, Even The Digital Display is RIGHT ON frequency... But...
NO transmit. I have NO grid Current (yes the SG switch is on) and NO
plate current. I show about 900 Volts (on the Meter) of Plate Voltage.
So, I replaced the Driver and Both Finals... Still Nothing....
Any suggestions from you Guru's??
Walt... I think I need you..

Gordon
N6WK

Yahoo! Groups Links

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

7535. Re: 820S VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 16:39:03 UTC
From: Gordon
Topic: 7527 Message: 7535

Thanks Charles. I have already cleaned the VFO before I got your advice. It looks Like I did it EXACTLY as you described. I did add a drop of sewing machine oil to the bearing when I was in the VFO. I just used the De Oxit on the Wiper. I also took the gears part, cleaned and lubed them. I was VERY careful when I took the Dials off and made sure I got them back Exactly as I took them apart.
Thank you for your post as It is Exactly how to do it.

Now to follow Walts Suggestion, and get it to transmit.
I'll report back later..
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer" <mortimer@...> wrote:
>
> hi Gordon
> careful when you get into the vfo
> wipers require a good clean de oxit try to keep oil away from the
> wipers they work better when dry what oil tends to do is collect dust and
> other substances and this creates a build up and loss of contact
> use oil on the bearings only one drop ideal oiler is a drug store syringe
> and thin sewing machine oil NOT automobile oil too thick just looking
> for the merest drop that will be enough whilst you have the vfo out
> you might as well clean and lubricate the vfo gear train that is a simple
> job but a little tricky document how the dials come of and be care full
> of the preloaded spring in-between the main gear wheal which fit back to
> back the reason for these gears being back to back with a preloaded is to
> stop any play in the vfo dial (in other words it keeps pressure on the
> vfo cog) use a digital camera when you disassemble it and mark the
> dials in there position and when re assembling set them up with a
> frequency counter so that they will run true to your to the frequency
> counter or set them up with a near by receiver with a digital display
> and zero beat the 820 with the chosen frequency on the receiver
> .....its a simple job but work methodically lay everything out as

it comes
> of the spindle do not take the vfo apart use the cleaner and work
the vfo
> back and forwards this is usually enough to clean the wipers
also those
> cotton buds on the end of small sticks soaked in de oxit are handy
best
> of luck
> Charles vk6ycj

7537. Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 17:30:17 UTC
From: Gordon
Topic: 7530 Message: 7537

Ok Walt,
Yes, all three tubes have the Filaments lit. There Is NOTHING in the key jack. I'm in the middle of the 20 meter band (I tried other bands also)
R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
Voltage at the SG terminal in ALL modes EXCEPT tune is about 210 Volts
In tune, It drops to 17 volts. Still No Bias Current and No output at all.
I have to run some errands, but I'll do some more checking when I get back.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Gordon:
>
> First, look and see if the filaments are lighting in all 3 tubes.
> Be sure that nothing is plugged in the CW key jack.
> Be in a Amateur band, band position not WWV.
>
> Next with the rig in SSB, mike gain fully DOWN place meter switch to IC and
> see if you get any IC as you turn the bias control on the back of the rig.

>
> ONLY If you CANNOT get an IC reading in the first step above do the
> following instead.
>
> With the rig on and in transmit measure the DC voltage at the point labeled
> SG on the bottom of the final board. It will be around 210 VDC on all modes
> except tune and about half that on tune.
>
> Now, unplug the rig, let it set for a few minutes and discharge the high
> voltage.
>
> On the final unit board,
>
> With an ohm meter check R 5 and R 6, they should read 100 ohms each. The
> Screen voltage goes through these resistors. It is common for these to open
> due to a bad tube.
>

> Check R 2 and R 3 they should read 5 ohms total. They are 10 ohms
each and
> are in parallel. The tube cathode current flows through these. It is
also
> common for these to open due to a bad tube.
>
> Check L1 and L2. They should read 0 ohms. Screen and control grid
bias goes
> through these choke coils.
>
> Let me Know whether all of this checks out.
>
> If any of the above parts are bad, after replacing them use the
light bulb
> in case of a tube short.
>
> Vy 73, Walt N9WB
>

7538. Re: [TS-520_820_530_830] Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 19:19:04 UTC
From: Walt Breining
Topic: 7530 Message: 7538

The divider resistors for the screen voltage in Tune need to be replaced. This will affect only the tune position. Next you need to check for high voltage on the tube plate caps. Be careful, it is over 800 V. If you are not familiar with measuring voltages this high or if your meter will not go that high, wait and I will get back to you this morning.

You will also need to check the control grid bias. I will help you with that when I have more time this morning.

Vy 73, Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 10, 2006 12:30 PM
Subject: [TS-520_820_530_830] Re: Ts-820S

> Ok Walt,
> Yes, all three tubes have the Filaments lit. There Is NOTHING in the
> key jack. I'm in the middle of the 20 meter band (I tried other bands
> also)
> R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> Voltage at the SG terminal in ALL modes EXCEPT tune is about 210 Volts
> In tune, It drops to 17 volts. Still No Bias Current and No output at all.
> I have to run some errands, but I'll do some more checking when I get
> back.
>
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
> wrote:
> >
> > Gordon:
> >
> > First, look and see if the filaments are lighting in all 3 tubes.
> > Be sure that nothing is plugged in the CW key jack.
> > Be in a Amateur band, band position not WWV.
> >
> > Next with the rig in SSB, mike gain fully DOWN place meter switch to
> IC and
> > see if you get any IC as you turn the bias control on the back of
> the rig.
>
> >

> > ONLY If you CANNOT get an IC reading in the first step above do the
> > following instead.
> >
> > With the rig on and in transmit measure the DC voltage at the point
> labeled
> > SG on the bottom of the final board. It will be around 210 VDC on
> all modes
> > except tune and about half that on tune.
> >
> > Now, unplug the rig, let it set for a few minutes and discharge the high
> > voltage.
> >
> > On the final unit board,
> >
> > With an ohm meter check R 5 and R 6, they should read 100 ohms each. The
> > Screen voltage goes through these resistors. It is common for these
> to open
> > due to a bad tube.
> >
> > Check R 2 and R 3 they should read 5 ohms total. They are 10 ohms
> each and
> > are in parallel. The tube cathode current flows through these. It is
> also
> > common for these to open due to a bad tube.
> >
> > Check L1 and L2. They should read 0 ohms. Screen and control grid
> bias goes
> > through these choke coils.
> >
> > Let me Know whether all of this checks out.
> >
> > If any of the above parts are bad, after replacing them use the
> light bulb
> > in case of a tube short.
> >
> > Vy 73, Walt N9WB
> >
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>
>

7539. Re: [TS-520_820_530_830] Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 18:40:02 UTC
From: Dan Rasmussen
Topic: 7522 Message: 7539

Hey Walt,

I recently built that Ten Tec Regen (further up the thread - Model 1054 Regenerative 4-Band SWL Receiver) with a bunch of boy scouts. It is a very hot set for the money (keep the headphones off when setting the regen control, a touch too far and your ears are ringing for the remaineder of the day). SWL is excellent and CW is good too. I have had limited success with SSB reception though but it may take a bit more finesse with the regen control.

A year or two ago I built the regen set that is described at http://funwithtubes.com . I did wind my own coils for that project and got the unit perking but need to spend a bit more time with it. There is a picture of it near the top of this page: http://retro-tronics.com/bench.php . FunWithTubes has lots of great projects and excelling instruction, including some great tips on winding your own coils (e.g. the use of double sided-tape over the form).

The Ten Tec kit is nice because it is very portable (runs on two nine volt batteries) and comes with a beautiful front panel and great build/use instructions. I'll try to put a pic up on the retro-tronics.com bench page soon.

I also built, with some cub scouts a few years ago, a fox-hole radio that used a graphite pencil tip and an anodized razor blade as the detector. They actually worked but I would advise against having a bunch of 9 year olds winding their own coils (that meeting was a disaster, I had to rewind all of them myself). Maybe I'll get a picture of one of those up on the site too.

Now, there's that TS-530S I need to talk to you guys about...

Dan Rasmussen

PS I'm new here.

--- Walt Breining <n9wb@...> wrote:

> TenTec has some nice kits.
> Walt N9WB
>
> ----- Original Message -----
> From: "Louis A. Bellock" <lbellock@...>

> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, May 09, 2006 1:05 PM
> Subject: RE: [TS-520_820_530_830] Crystal Reciever
>
>
> > Hello Allan,
> > Go to eBay. I have seen many varieties of new and
> vintage crystal kits for
> > bargain prices. Having been in this boy's position, if
> I was you I might
> shy
> > away from a crystal kit for "shortwave" listening. The
> difficulty of
> working
> > a crystal kit and the lack of freq selectivity might
> discourage your young
> > friend. That's what happened to me.
> > My interest in shortwave radio peaked up when I found
> out about simple
> > regenerative sets. Today you can also buy very
> inexpensive regenerative
> > receiver kits, hollow- or solid-state, and get 10 fold
> performance on the
> > shortwave bands with much less difficulty in operation
> with greatly
> improved
> > selectivity. You can also find these kits on eBay.
> >
> > I would also suggest going to AES at the link below:
> > http://www.tubesandmore.com/
> > They have a 1-tube regen kit good to 8 Mhz for $22.50
> and a 2-tube for
> > $34.50.
> >
> > Lastly, for an easy-to-assemble solid state kit go to
> MFJ and look at the
> > 8100 at:
> >
>
http://www.mfjenterprises.com/products.php?prodid=MFJ-8100K
> >
> > Good luck building/listening! You and your young friend
> should have a
> ball.
> >
> > 73, Lou N2JPR
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf

> Of AllanKB5DOH
> > Sent: Tuesday, May 09, 2006 1:47 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Crystal Reciever
> >
> > Hi, To one and all, I have a quest would any of the
> members have
> > knowlage of where I can get a inexpensive crystal kit
> that a 14 year
> > old boy can put together and listen to ham radio, I say
> inexpensive
> > because I can not afford to much but want to send this
> boy one of
> > these kits in hope that it will drive his cureousity to
> the point that
> > he will want to know more and get his amateur license.
> He is also very
> > interested in computers and learning to develope games
> and other
> > programs I feel this boy has potential and I want to
> give this boy
> > some drive and encourage him in/on his dreams.
> >
> > Let me know what is out there for these crystal radio
> recievers.
> >
> > God Bless You and Yours
> >
> > Allan=kb5doh
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links

> >
> >
> >
> >
> >
> >
> >
> >
>
>
>
> ------------------------ Yahoo! Groups Sponsor
> ---------------------~-->
> Everything you need is one click away. Make Yahoo! your
> home page now.
> http://us.click.yahoo.com/AHchtC/4FxNAA/yQLSAA/ELTolB/TM
>
---~->
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

------ replies to sscanf@... ------

Anything that appears after this sentence is inserted by
Yahoo (or others) and may not be a good idea.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7540. Re: V F O trio/kenwood ts820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 19:12:17 UTC
From: budgiebob2005
Topic: 7494 Message: 7540

Thanks for replys . I finished up removing the main knob and then
the screws holding the outer knob can be slackened to allow the
inner Hundred didgits to be located correctly .This is best done at
250 and then tightentd and spun from one end to other and very
slight adgustment made . sounds hard but in practice only takes a
few mins . fully tighten and refitt main knob and ensure this turns
freely without rubbing . job done and reads ok 100-500 BOB G8acq
note this is for seperate V F O
Unit

In TS-520_820_530_830@yahoogroups.com, "ke9zm" <ke9zm@...> wrote:
>
> I went through this process and can tell you that it's kind of a
fun
> process to see how all these wheels work. I took mine apart to
the
> last wheel. If you do so, when you reassemble, be aware that
there
> are some close tolerances between the 2 spinning wheels. They
need
> to spin independently and if you hear some "grinding" when you
spin
> the vfo the wheels are too close and they are rubbing against each
> other. On mine, it was a very delicate adjustment and if the
dials
> are any bit warped you might have a problem.
>
> The TS820S (user or service - cant remember) tell you how to align
> these wheels. There is a special alignmant mark on one of them.
> But if you have a freq display then you can get the right
alignment
> by trial and error as Walt suggests.
>
> ke9zm
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@> wrote:
> >
> > Note that the inner ring can be turned separately from the outer
> knob by
> > holding the outer knob and turning the inner knob. This is to
> calibrate the
> > outer most dial with the red line.

> >
> > The inner ring is one or several complete turns out of sequence
> causing your
> > problem. Rotate the inner ring 360 degrees one way or the other.
> >
> > See if the problem is better or worse. Continue to make 360
degree
> rotations
> > of the inner ring in the direction that improves the problem
until
> it is
> > corrected.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "budgiebob2005" <budgiebob@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Saturday, May 06, 2006 2:06 PM
> > Subject: [TS-520_820_530_830] V F O trio/kenwood ts820
> >
> >
> > > I have this using with my ts520and working fine .
> > > There is a problem in that the dial is not fully aligned .
when
> you
> > > are say at 290 and move to 300 the no in the window remains
at
> 2 ie
> > > 200 indicated not correct 300 Tuning up to 310 changes ok
> > > What is correct way of aligning ? same all way across range
> thanks
> > > Bob G8acq
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >

> >
>

7541. Re: [TS-520_820_530_830] Digest Number 1087

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 19:29:25 UTC
From: catboat15@aol.com
Topic: 7541 Message: 7541

Alan:
There are groups that specialize in crystal sets. One I remember off hand is called "The voice of the crystal" and there are descriptions (and kits) for several sets.
But, remember a simple crystal set will not receive SSB or CW as there is no local oscillator. Pretty well limited to AM signals by the nature of a crystal set.

DE K6suf
From the high desert, John Meacham

[Non-text portions of this message have been removed]

7543. Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 19:39:28 UTC
From: Gordon
Topic: 7530 Message: 7543

You are right Walt. R6 measured way too high, instead of 56k it measured almost 700k. Replaced the Dividing resistors and Now I have about 105 Volts on the SG in the Tune Postion.

I measured the High Voltage right at the plate caps it shows around 800 volts on each of the finals.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> The divider resistors for the screen voltage in Tune need to be replaced.
> This will affect only the tune position. Next you need to check for high
> voltage on the tube plate caps. Be careful, it is over 800 V. If you are not
> familiar with measuring voltages this high or if your meter will not go that
> high, wait and I will get back to you this morning.
>
> You will also need to check the control grid bias. I will help you with that
> when I have more time this morning.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, May 10, 2006 12:30 PM
> Subject: [TS-520_820_530_830] Re: Ts-820S
>
>
> > Ok Walt,
> > Yes, all three tubes have the Filaments lit. There Is NOTHING in the
> > key jack. I'm in the middle of the 20 meter band (I tried other bands
> > also)
> > R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> > Voltage at the SG terminal in ALL modes EXCEPT tune is about 210 Volts
> > In tune, It drops to 17 volts. Still No Bias Current and No output at all.
> > I have to run some errands, but I'll do some more checking when I get
> > back.
> >

> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > Gordon:
> > >
> > > First, look and see if the filaments are lighting in all 3 tubes.
> > > Be sure that nothing is plugged in the CW key jack.
> > > Be in a Amateur band, band position not WWV.
> > >
> > > Next with the rig in SSB, mike gain fully DOWN place meter switch to
> > IC and
> > > see if you get any IC as you turn the bias control on the back of
> > the rig.
> > >
> > >
> > > ONLY If you CANNOT get an IC reading in the first step above do the
> > > following instead.
> > >
> > > With the rig on and in transmit measure the DC voltage at the point
> > labeled
> > > SG on the bottom of the final board. It will be around 210 VDC on
> > all modes
> > > except tune and about half that on tune.
> > >
> > > Now, unplug the rig, let it set for a few minutes and discharge
the high
>
> > > voltage.
> > >
> > > On the final unit board,
> > >
> > > With an ohm meter check R 5 and R 6, they should read 100 ohms
each. The
> > > Screen voltage goes through these resistors. It is common for these
> > to open
> > > due to a bad tube.
> > >
> > > Check R 2 and R 3 they should read 5 ohms total. They are 10 ohms
> > each and
> > > are in parallel. The tube cathode current flows through these. It is
> > also
> > > common for these to open due to a bad tube.
> > >
> > > Check L1 and L2. They should read 0 ohms. Screen and control grid
> > bias goes
> > > through these choke coils.

> > >
> > > Let me Know whether all of this checks out.
> > >
> > > If any of the above parts are bad, after replacing them use the
> > light bulb
> > > in case of a tube short.
> > >
> > > Vy 73, Walt N9WB
> > >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

7544. Re: Suitable 'outboard' AF filtering ideas...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 20:59:33 UTC
From: dug
Topic: 5888 Message: 7544

While you wait for the kit, you might try knocking this thing I found the other day together:

http://vintageradio.me.uk/electronics/take_twenty/noise_limiter.jpg

Apparently there was a british series of cheap electronic projects in the 60's that has been scanned and posted. Had to take less than 20 components; less than 1 pound in the 60's. I certainly won't say that this noise limiter will compete with the kit you're looking at, but even I have the stuff in my junkbox to do this...once I find the other site that can translate british components again. What is a bc109 transistor on this side of the pond?

First I should probably swap out my finals and neutralize them. One needs audio before one can filter it.

<barnardbaca@...> wrote:
>
> > --- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard"
> > <barnardbaca@> wrote:
> > >
> > > My TS820 does not have the CW filter installed. Eventually may
get
> > > part or equivalent replacement...
> > > I am interested in an 'outboard' AF level filter that I could
build,
> > > easily, myself. Anyone have a manageable design or reference to
one?
> > > Something I could plug the headphones into, a notch/XTAL or
equiv.
> > And
> > > one that is self-contained (i.e. don't wanna run audio through
> > > ProTools on the Mac).
> > >
> > > Tnx
> > > RBB WB7AVF
> > >
> >
>

7545. Re: Suitable 'outboard' AF filtering ideas...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 21:15:32 UTC
From: digs4ruff
Topic: 5888 Message: 7545

--- In TS-520_820_530_830@yahoogroups.com, "dug" <clockdug@...> wrote:
What is a
> bc109 transistor on this side of the pond?
>
GENERAL PURPOSE SMALL SIGNAL NPN BIPOLAR TRANSISTOR
regards
VA7GEM
Barry

7546. Re: YG455C Filter for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 23:34:22 UTC
From: belbert2002
Topic: 7520 Message: 7546

Looking at what's generally available in 500 Hz CW 455 kHz IF filters from Kenwood, I'm finding that the YG-455C-1 can be found at eBay and at QTH.com, etc. This was made available for rigs after the 830S and presumable has a different physical (and electrical?) interface. I wonder if anyone knows if this filter will work with the 830S and what's involved with installing it.

I'm still interested in obtaining the original equipment YG-455 C filter, if any one would care to part with it.

Thanks and 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> If anyone has one of these 500 Hz CW filters and is willing to part
> with it, please let me know (email preferred - price to be agreed).
> Thanks and 73, Bruce K6ZB
>

7547. Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-10 23:40:16 UTC
From: Gordon
Topic: 7530 Message: 7547

Walt and group,
New problem showed up Toady. The Light Bulb Glows very dim when I turn the rig on then stops glowing all together.Rig receives just GREAT. All is well. Then, When I turn the Heater switch on, The light starts to get bright, then dims way down. Within a minute, the bulb starts to get brighter and brighter and even after I turn the Heater switch OFF, it starts to glow Really Bright. I have to Shut the rig off to get the bulb to go out.
If I leave the heater switch off after I have turned on the radio, The Radio Receives fine. This problem only starts After The Heater switch is turned on. So, I thought maybe a bad tube, so I replaced the Driver and Both 6146B's and Same Result. Suggestions ???

Maybe I should just make this TS-820S a Receiver ?? :-)
Thanks for all the Help Guys! Especially Walt!!
73
Gordon

-- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> You are right Walt. R6 measured way too high, instead of 56k it
> measured almost 700k. Replaced the Dividing resistors and Now I have
> about 105 Volts on the SG in the Tune Postion.
>
> I measured the High Voltage right at the plate caps it shows around
> 800 volts on each of the finals.
>
> Gordon
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > The divider resistors for the screen voltage in Tune need to be
> replaced.
> > This will affect only the tune position. Next you need to check
for high
> > voltage on the tube plate caps. Be careful, it is over 800 V. If you
> are not
> > familiar with measuring voltages this high or if your meter will not
> go that
> > high, wait and I will get back to you this morning.
> >

> > You will also need to check the control grid bias. I will help you
> with that
> > when I have more time this morning.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "Gordon" <n6wk@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, May 10, 2006 12:30 PM
> > Subject: [TS-520_820_530_830] Re: Ts-820S
> >
> >
> > > Ok Walt,
> > > Yes, all three tubes have the Filaments lit. There Is NOTHING
> in the
> > > key jack. I'm in the middle of the 20 meter band (I tried other
bands
> > > also)
> > > R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> > > Voltage at the SG terminal in ALL modes EXCEPT tune is about 210
Volts
> > > In tune, It drops to 17 volts. Still No Bias Current and No output
> at all.
> > > I have to run some errands, but I'll do some more checking when
I get
> > > back.
> > >
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > wrote:
> > > >
> > > > Gordon:
> > > >
> > > > First, look and see if the filaments are lighting in all 3 tubes.
> > > > Be sure that nothing is plugged in the CW key jack.
> > > > Be in a Amateur band, band position not WWV.
> > > >
> > > > Next with the rig in SSB, mike gain fully DOWN place meter
switch to
> > > IC and
> > > > see if you get any IC as you turn the bias control on the back of
> > > the rig.
> > > >
> > > >
> > > > ONLY If you CANNOT get an IC reading in the first step above
do the

> > > > following instead.
> > > >
> > > > With the rig on and in transmit measure the DC voltage at the
point
> > > labeled
> > > > SG on the bottom of the final board. It will be around 210 VDC on
> > > all modes
> > > > except tune and about half that on tune.
> > > >
> > > > Now, unplug the rig, let it set for a few minutes and discharge
> the high
> >
> > > > voltage.
> > > >
> > > > On the final unit board,
> > > >
> > > > With an ohm meter check R 5 and R 6, they should read 100 ohms
> each. The
> > > > Screen voltage goes through these resistors. It is common for
these
> > > to open
> > > > due to a bad tube.
> > > >
> > > > Check R 2 and R 3 they should read 5 ohms total. They are 10 ohms
> > > each and
> > > > are in parallel. The tube cathode current flows through these.
It is
> > > also
> > > > common for these to open due to a bad tube.
> > > >
> > > > Check L1 and L2. They should read 0 ohms. Screen and control grid
> > > bias goes
> > > > through these choke coils.
> > > >
> > > > Let me Know whether all of this checks out.
> > > >
> > > > If any of the above parts are bad, after replacing them use the
> > > light bulb
> > > > in case of a tube short.
> > > >
> > > > Vy 73, Walt N9WB
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >

> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
>

7548. Re: [TS-520_820_530_830] Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 00:48:19 UTC
From: Peter A Markavage
Topic: 7530 Message: 7548

Take the three tubes out, and then turn on the heater switch, and see if
it does the same thing.

Pete, wa2cwa

On Wed, 10 May 2006 23:40:16 -0000 "Gordon" <n6wk@...> writes:
Walt and group,
New problem showed up Toady. The Light Bulb Glows very dim when I
turn the rig on then stops glowing all together.Rig receives just
GREAT. All is well. Then, When I turn the Heater switch on, The light
starts to get bright, then dims way down. Within a minute, the bulb
starts to get brighter and brighter and even after I turn the Heater
switch OFF, it starts to glow Really Bright. I have to Shut the rig
off to get the bulb to go out.
If I leave the heater switch off after I have turned on the radio, The
Radio Receives fine. This problem only starts After The Heater switch
is turned on. So, I thought maybe a bad tube, so I replaced the
Driver and Both 6146B's and Same Result. Suggestions ???

Maybe I should just make this TS-820S a Receiver ?? :-)
Thanks for all the Help Guys! Especially Walt!!
73
Gordon

-- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> You are right Walt. R6 measured way too high, instead of 56k it
> measured almost 700k. Replaced the Dividing resistors and Now I have
> about 105 Volts on the SG in the Tune Postion.
>
> I measured the High Voltage right at the plate caps it shows around
> 800 volts on each of the finals.
>
> Gordon
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > The divider resistors for the screen voltage in Tune need to be
> replaced.
> > This will affect only the tune position. Next you need to check
for high
> > voltage on the tube plate caps. Be careful, it is over 800 V. If you

> are not
> > familiar with measuring voltages this high or if your meter will not
> go that
> > high, wait and I will get back to you this morning.
> >
> > You will also need to check the control grid bias. I will help you
> with that
> > when I have more time this morning.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: "Gordon" <n6wk@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, May 10, 2006 12:30 PM
> > Subject: [TS-520_820_530_830] Re: Ts-820S
> >
> >
> > > Ok Walt,
> > > Yes, all three tubes have the Filaments lit. There Is NOTHING
> in the
> > > key jack. I'm in the middle of the 20 meter band (I tried other
bands
> > > also)
> > > R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> > > Voltage at the SG terminal in ALL modes EXCEPT tune is about 210
Volts
> > > In tune, It drops to 17 volts. Still No Bias Current and No output
> at all.
> > > I have to run some errands, but I'll do some more checking when
I get
> > > back.
> > >
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > wrote:
> > > >
> > > > Gordon:
> > > >
> > > > First, look and see if the filaments are lighting in all 3 tubes.
> > > > Be sure that nothing is plugged in the CW key jack.
> > > > Be in a Amateur band, band position not WWV.
> > > >
> > > > Next with the rig in SSB, mike gain fully DOWN place meter
switch to
> > > IC and
> > > > see if you get any IC as you turn the bias control on the back of

> > > the rig.
> > >
> > > >
> > > > ONLY If you CANNOT get an IC reading in the first step above
do the
> > > > following instead.
> > > >
> > > > With the rig on and in transmit measure the DC voltage at the
point
> > > labeled
> > > > SG on the bottom of the final board. It will be around 210 VDC on
> > > all modes
> > > > except tune and about half that on tune.
> > > >
> > > > Now, unplug the rig, let it set for a few minutes and discharge
> the high
> >
> > > > voltage.
> > > >
> > > > On the final unit board,
> > > >
> > > > With an ohm meter check R 5 and R 6, they should read 100 ohms
> each. The
> > > > Screen voltage goes through these resistors. It is common for
these
> > > to open
> > > > due to a bad tube.
> > > >
> > > > Check R 2 and R 3 they should read 5 ohms total. They are 10 ohms
> > > each and
> > > > are in parallel. The tube cathode current flows through these.
It is
> > > also
> > > > common for these to open due to a bad tube.
> > > >
> > > > Check L1 and L2. They should read 0 ohms. Screen and control
grid
> > > bias goes
> > > > through these choke coils.
> > > >
> > > > Let me Know whether all of this checks out.
> > > >
> > > > If any of the above parts are bad, after replacing them use the
> > > light bulb
> > > > in case of a tube short.
> > > >
> > > > Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

7549. Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 01:06:26 UTC
From: Gordon
Topic: 7530 Message: 7549

Thanks Pete,
I found That problem. Seems there were some intermitent connections
inside the 3 , 10 pin connectors that are at the TOP of the RF board.
Got in there and replaced some bad terminals (connector side) and
that Problem is now Gone. The light bulb glows dim again.

Now, I just need to get some bias current and see what goes. I still
show 0 on the IP current when I am looking for the 60 Ma idle current.
Thanks for the suggestion !
73
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Take the three tubes out, and then turn on the heater switch, and see if
> it does the same thing.
>
> Pete, wa2cwa
>
>
> On Wed, 10 May 2006 23:40:16 -0000 "Gordon" <n6wk@...> writes:
> Walt and group,
> New problem showed up Toady. The Light Bulb Glows very dim when I
> turn the rig on then stops glowing all together.Rig receives just
> GREAT. All is well. Then, When I turn the Heater switch on, The light
> starts to get bright, then dims way down. Within a minute, the bulb
> starts to get brighter and brighter and even after I turn the Heater
> switch OFF, it starts to glow Really Bright. I have to Shut the rig
> off to get the bulb to go out.
> If I leave the heater switch off after I have turned on the radio, The
> Radio Receives fine. This problem only starts After The Heater switch
> is turned on. So, I thought maybe a bad tube, so I replaced the
> Driver and Both 6146B's and Same Result. Suggestions ???
>
> Maybe I should just make this TS-820S a Receiver ?? :-)
> Thanks for all the Help Guys! Especially Walt!!
> 73
> Gordon
>
> -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > You are right Walt. R6 measured way too high, instead of 56k it
> > measured almost 700k. Replaced the Dividing resistors and Now I have
> > about 105 Volts on the SG in the Tune Postion.

> >
> > I measured the High Voltage right at the plate caps it shows around
> > 800 volts on each of the finals.
> >
> > Gordon
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > The divider resistors for the screen voltage in Tune need to be
> > replaced.
> > > This will affect only the tune position. Next you need to check
> for high
> > > voltage on the tube plate caps. Be careful, it is over 800 V. If you
> > are not
> > > familiar with measuring voltages this high or if your meter will not
> > go that
> > > high, wait and I will get back to you this morning.
> > >
> > > You will also need to check the control grid bias. I will help you
> > with that
> > > when I have more time this morning.
> > >
> > > Vy 73, Walt N9WB
> > >
> > > ----- Original Message -----
> > > From: "Gordon" <n6wk@>
> > > To: <TS-520_820_530_830@yahoogroups.com>
> > > Sent: Wednesday, May 10, 2006 12:30 PM
> > > Subject: [TS-520_820_530_830] Re: Ts-820S
> > >
> > >
> > > > Ok Walt,
> > > > Yes, all three tubes have the Filaments lit. There Is NOTHING
> > in the
> > > > key jack. I'm in the middle of the 20 meter band (I tried other
> bands
> > > > also)
> > > > R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> > > > Voltage at the SG terminal in ALL modes EXCEPT tune is about 210
> Volts
> > > > In tune, It drops to 17 volts. Still No Bias Current and No output
> > at all.
> > > > I have to run some errands, but I'll do some more checking when
> I get
> > > > back.
> > > >

> > > > Gordon
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > > wrote:
> > > > >
> > > > > Gordon:
> > > > >
> > > > > First, look and see if the filaments are lighting in all 3
tubes.
> > > > > Be sure that nothing is plugged in the CW key jack.
> > > > > Be in a Amateur band, band position not WWV.
> > > > >
> > > > > Next with the rig in SSB, mike gain fully DOWN place meter
> switch to
> > > > IC and
> > > > > see if you get any IC as you turn the bias control on the
back of
> > > > the rig.
> > > > >
> > > > >
> > > > > ONLY If you CANNOT get an IC reading in the first step above
> do the
> > > > > following instead.
> > > > >
> > > > > With the rig on and in transmit measure the DC voltage at the
> point
> > > > labeled
> > > > > SG on the bottom of the final board. It will be around 210
VDC on
> > > > all modes
> > > > > except tune and about half that on tune.
> > > > >
> > > > > Now, unplug the rig, let it set for a few minutes and discharge
> > the high
> > > >
> > > > > voltage.
> > > > >
> > > > > On the final unit board,
> > > > >
> > > > > With an ohm meter check R 5 and R 6, they should read 100 ohms
> > each. The
> > > > > Screen voltage goes through these resistors. It is common for
> these
> > > > to open
> > > > > due to a bad tube.
> > > > >
> > > > > Check R 2 and R 3 they should read 5 ohms total. They are 10
ohms

> > > > each and
> > > > > are in parallel. The tube cathode current flows through these.
> It is
> > > > also
> > > > > common for these to open due to a bad tube.
> > > > >
> > > > > Check L1 and L2. They should read 0 ohms. Screen and control
> grid
> > > > bias goes
> > > > > through these choke coils.
> > > > >
> > > > > Let me Know whether all of this checks out.
> > > > >
> > > > > If any of the above parts are bad, after replacing them use the
> > > > light bulb
> > > > > in case of a tube short.
> > > > >
> > > > > Vy 73, Walt N9WB
>
> [Non-text portions of this message have been removed]
>

7550. Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 02:23:49 UTC
From: Ellen R
Topic: 7550 Message: 7550

Hi Again Everybody,

No, I don't have another problem with my TS-820. LOL The little historian inside of me is wondering how old my cool TS-820 is. I briefly looked on the back panel, but I can't find a serial number (although it could be concealed by the bottom connectors. Does anybody know how to date the TS-820 (or any of the other hybrids for that matter)? Is there a serial number, and if so what is the numbering scheme? All I have to go off of so far, is the front panel, which literally says "Kenwood TS-820", which I think indicates that it's an earlier one (I think all of the later ones automatically came with the digital display [which mine doesn't have], and were badeged "Kenwood TS-820S]). Can somebody enlighten me on this?

73,
Ellen - AF9J

P.S. - anybody interested in skedding, so I can get more audio data (for the group) on the mic I got from Ken's Electronics?

P.P.S. - Hi Gordon, I didn't know you had a TS-820S. Did you just get it?

7551. Re: Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 02:43:29 UTC
From: Gordon
Topic: 7550 Message: 7551

Hi Ellen,
Yes, I was given it about 10 days ago. I have already replaced 6 diodes and a few Resistors along with the Transformer. It works GREAT on Receive, But will NOT transmit.
Mine is the TRIO TS-820S ,
With the help of some of the Guru's here,(Mostly Walt) I am slowly getting it up and Running. I also have a MINT TS-830S and a TS-570S which is my Primary Rig. I do like my Kenwoods!!
I worked Saudia Arabia last evening on 20, So I'm having fun chasing the DX. How about you, What have you been doing since you got your 820 up and running?

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Again Everybody,
>
> No, I don't have another problem with my TS-820. LOL The little
> historian inside of me is wondering how old my cool TS-820 is. I
> briefly looked on the back panel, but I can't find a serial number
> (although it could be concealed by the bottom connectors. Does
> anybody know how to date the TS-820 (or any of the other hybrids for
> that matter)? Is there a serial number, and if so what is the
> numbering scheme? All I have to go off of so far, is the front
> panel, which literally says "Kenwood TS-820", which I think indicates
> that it's an earlier one (I think all of the later ones automatically
> came with the digital display [which mine doesn't have], and were
> badeged "Kenwood TS-820S]). Can somebody enlighten me on this?
>
> 73,
> Ellen - AF9J
>
> P.S. - anybody interested in skedding, so I can get more audio data
> (for the group) on the mic I got from Ken's Electronics?
>
> P.P.S. - Hi Gordon, I didn't know you had a TS-820S. Did you just
> get it?
>

7552. Re: Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 03:02:42 UTC
From: Ellen R
Topic: 7550 Message: 7552

Hi Walt,

Not much. I've been begging for SKCC skeds, and I'm also looking for phone skeds, so I can get some data for the group on the Ken's Electronics hand mic I bought for my TS-820.

I love my 820. I used to use a TS-830S at W9YT, the Univ. of WI ham club back in the mid 80s, so using my 802 is basically 2nd nature for me. I had forgotten just how quiet the receivers on these things can be. The receiver and phone audio is also fantastic. It puts my IC-703 plus (which also had DSP) to shame. I can hear stuff clearly on my '820, that is almost down in the noise on my '703. Kerry, WD5ABC, and I might sked on 20m phone tomorrow, while he's driving home from a business trip. I also have a 80m CW sked with Rich Arland K7SZ tomorrow night, but I have feeling that tomorrow's bad weather is going to make that a bust.

Listen to Walt & the other experts. They have great advice. They sure helped me. When I got mine, I had to replace resistors in the finals (one was OK, and one was iffy,so I replaced both) and high voltage boards (3 of these were burned out). My finals were almost toast, so I replaced those, and neutralized the new ones (finally!, I've been sick for so long) this last Sunday. I also got my hands on a 500 Hz CW filter, and installed it.

At the present time, the IC-703 Plus is only my contest machine, digital radio, and 6m rig. I like my TS-820 that much. The 500 Hz filter is always on, when I do CW. The filter has better audio, and seems to have less insertion loss, than the 500 Hz filter in my IC-703 Plus. So, the TS-820 has become my main HF rig. I can alos do QRP CW, but lowering the carrier level.

73,
Ellen - AF9J

I tell you,

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> Yes, I was given it about 10 days ago. I have already replaced 6
> diodes and a few Resistors along with the Transformer. It works
GREAT
> on Receive, But will NOT transmit.
> Mine is the TRIO TS-820S ,
> With the help of some of the Guru's here,(Mostly Walt) I am slowly
> getting it up and Running. I also have a MINT TS-830S and a TS-570S

> which is my Primary Rig. I do like my Kenwoods!!
> I worked Saudia Arabia last evening on 20, So I'm having fun chasing
> the DX. How about you, What have you been doing since you got your
> 820 up and running?
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Again Everybody,
> >
> > No, I don't have another problem with my TS-820. LOL The little
> > historian inside of me is wondering how old my cool TS-820 is. I
> > briefly looked on the back panel, but I can't find a serial
number
> > (although it could be concealed by the bottom connectors. Does
> > anybody know how to date the TS-820 (or any of the other hybrids
for
> > that matter)? Is there a serial number, and if so what is the
> > numbering scheme? All I have to go off of so far, is the front
> > panel, which literally says "Kenwood TS-820", which I think
indicates
> > that it's an earlier one (I think all of the later ones
automatically
> > came with the digital display [which mine doesn't have], and were
> > badeged "Kenwood TS-820S]). Can somebody enlighten me on this?
> >
> > 73,
> > Ellen - AF9J
> >
> > P.S. - anybody interested in skedding, so I can get more audio
data
> > (for the group) on the mic I got from Ken's Electronics?
> >
> > P.P.S. - Hi Gordon, I didn't know you had a TS-820S. Did you
just
> > get it?
> >
>

7553. Re: [TS-520_820_530_830] Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 03:09:51 UTC
From: bob54quam@cs.com
Topic: 7550 Message: 7553

Hi Ellen,
I think your TS-820 is most likely from late 1976 through 1977. The digital display was offered as an option for a time, but from the ads in QST and CQ, I gather that few TS-820 models were sold by the end of 1977. The TS-520S had come out by then and had most of the features of the TS-820 (except for the IF shift and voice monitor). I was never able to determine the age of my TS-520S except that it has to be from mid 1977 to mid 1979.
I have 14 HF rigs; Swan, Galaxy, Heathkit, Icom and the Kenwood, and I have been able to find the date for all but the Kenwood to the nearest month.
Just my 2 cents. I hope this helps a little
Bob
KI0KM

[Non-text portions of this message have been removed]

7554. Re: [TS-520_820_530_830] Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 03:18:39 UTC
From: bob54quam@cs.com
Topic: 7550 Message: 7554

Ellen,

My Inner Historian usually won't let me rest until I find out these things!
Bob
KI0KM

[Non-text portions of this message have been removed]

7555. Re: YG455C Filter for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 03:52:12 UTC
From: ve3fh
Topic: 7520 Message: 7555

I am afraid YG-455C and YG-455C-1 are not compatible with each, they are physically different one: is a solder type and the other is a plug-in style. And, more importantly, their center frequencies are different: 455.7kHz vs. 455.0kHz. I have a table with the specs for many Kenwood filters, I can upload it if anybody wants it, not sure where I got though.

I do have a YG-455C in my TS-830S but I am not selling it, and I am looking for a YG-455C-1 for my TS-940S in case anyone has one for sale please let me know.

Someone who has a YG-455C for sale emailed me about two weeks ago if I find that email I will let you know.

73,
Julio VE3FH

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> Looking at what's generally available in 500 Hz CW 455 kHz IF filters
> from Kenwood, I'm finding that the YG-455C-1 can be found at eBay and
> at QTH.com, etc. This was made available for rigs after the 830S and
> presumable has a different physical (and electrical?) interface. I
> wonder if anyone knows if this filter will work with the 830S and
> what's involved with installing it.
>
> I'm still interested in obtaining the original equipment YG-455 C
> filter, if any one would care to part with it.
>
> Thanks and 73, Bruce K6ZB
>
> --- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@>
> wrote:
> >
> > If anyone has one of these 500 Hz CW filters and is willing to part
> > with it, please let me know (email preferred - price to be agreed).
> > Thanks and 73, Bruce K6ZB
> >
>

7556. Kenwood TS-520SE INSTRUCTION Manual Available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 06:23:40 UTC
From: Ravenswood
Topic: 7556 Message: 7556

The Kenwood TS-520SE Instruction Manual is now Available as PDF.

Due to high demand for the TS-520SE INSTRUCTION MANUAL, it is now
available to view/download. Due to limited Yahoo space, it's on a
private server.

It's of rather large size (20mb, but HQ and enlarges nicely to 600%)
and won't fit comfortably in the Yahoo groups. If anyone can make it
smaller w/o losing quality, please let me know.

Check in to the Yahoo astaticmicrophones* group and view the LINKS
section for Kenwood TS-520SE to download the full INSTRUCTION manual.

I've not found this manual anywhere else on the web. If there are any
copyright issues, please advise and I'll pull it.

On a side note, I now have the original manual for anyone who wants
it. Offers can email or message me. I figure at about 15 bucks,
plus shipping will get it to your door at about 1/2 price elsewhere.

PayPal is fine.

Frank, K2NCC

http://groups.yahoo.com/group/astaticmicrophones/

7557. Re: [TS-520_820_530_830] Crystal Reciever

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 09:06:23 UTC
From: Walt Breining
Topic: 7522 Message: 7557

A safety pin and a razor blade works too. However, when I saved up 75 cents
from mowing lawns, I went to the hobby shop and purchased a germanium diode.

Walt N9WB

----- Original Message -----
From: "Dan Rasmussen" <sscanf@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 10, 2006 1:40 PM
Subject: Re: [TS-520_820_530_830] Crystal Reciever

>
> Hey Walt,
>
> I recently built that Ten Tec Regen (further up the thread
> - Model 1054 Regenerative 4-Band SWL Receiver) with a bunch
> of boy scouts. It is a very hot set for the money (keep
> the headphones off when setting the regen control, a touch
> too far and your ears are ringing for the remaineder of the
> day). SWL is excellent and CW is good too. I have had
> limited success with SSB reception though but it may take a
> bit more finesse with the regen control.
>
> A year or two ago I built the regen set that is described
> at http://funwithtubes.com . I did wind my own coils for
> that project and got the unit perking but need to spend a
> bit more time with it. There is a picture of it near the
> top of this page: http://retro-tronics.com/bench.php .
> FunWithTubes has lots of great projects and excelling
> instruction, including some great tips on winding your own
> coils (e.g. the use of double sided-tape over the form).
>
> The Ten Tec kit is nice because it is very portable (runs
> on two nine volt batteries) and comes with a beautiful
> front panel and great build/use instructions. I'll try to
> put a pic up on the retro-tronics.com bench page soon.
>
> I also built, with some cub scouts a few years ago, a
> fox-hole radio that used a graphite pencil tip and an
> anodized razor blade as the detector. They actually worked
> but I would advise against having a bunch of 9 year olds
> winding their own coils (that meeting was a disaster, I had
> to rewind all of them myself). Maybe I'll get a picture of
> one of those up on the site too.
>
> Now, there's that TS-530S I need to talk to you guys

> about...
>
> Dan Rasmussen
>
> PS I'm new here.
>
> --- Walt Breining <n9wb@...> wrote:
>
> > TenTec has some nice kits.
> > Walt N9WB
> >
> > ----- Original Message -----
> > From: "Louis A. Bellock" <lbellock@...>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Tuesday, May 09, 2006 1:05 PM
> > Subject: RE: [TS-520_820_530_830] Crystal Reciever
> > >
> > >
> > > Hello Allan,
> > > Go to eBay. I have seen many varieties of new and
> > vintage crystal kits for
> > > bargain prices. Having been in this boy's position, if
> > I was you I might
> > shy
> > > away from a crystal kit for "shortwave" listening. The
> > difficulty of
> > working
> > > a crystal kit and the lack of freq selectivity might
> > discourage your young
> > > friend. That's what happened to me.
> > > My interest in shortwave radio peaked up when I found
> > out about simple
> > > regenerative sets. Today you can also buy very
> > inexpensive regenerative
> > > receiver kits, hollow- or solid-state, and get 10 fold
> > performance on the
> > > shortwave bands with much less difficulty in operation
> > with greatly
> > improved
> > > selectivity. You can also find these kits on eBay.
> > > >
> > > I would also suggest going to AES at the link below:
> > > http://www.tubesandmore.com/
> > > They have a 1-tube regen kit good to 8 Mhz for $22.50
> > and a 2-tube for
> > > $34.50.
> > > >
> > > Lastly, for an easy-to-assemble solid state kit go to
> > MFJ and look at the
> > > 8100 at:

> > >
> >
> http://www.mfjenterprises.com/products.php?prodid=MFJ-8100K
> > >
> > > Good luck building/listening! You and your young friend
> > should have a
> > ball.
> > >
> > > 73, Lou N2JPR
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com
> > > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf
> > Of AllanKB5DOH
> > > Sent: Tuesday, May 09, 2006 1:47 PM
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Crystal Reciever
> > >
> > > Hi, To one and all, I have a quest would any of the
> > members have
> > > knowlage of where I can get a inexpensive crystal kit
> > that a 14 year
> > > old boy can put together and listen to ham radio, I say
> > inexpensive
> > > because I can not afford to much but want to send this
> > boy one of
> > > these kits in hope that it will drive his cureousity to
> > the point that
> > > he will want to know more and get his amateur license.
> > He is also very
> > > interested in computers and learning to develope games
> > and other
> > > programs I feel this boy has potential and I want to
> > give this boy
> > > some drive and encourage him in/on his dreams.
> > >
> > > Let me know what is out there for these crystal radio
> > recievers.
> > >
> > > God Bless You and Yours
> > >
> > > Allan=kb5doh
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links

> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> >
> > ------------------------ Yahoo! Groups Sponsor
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
>
>
> ------ replies to sscanf@... ------
>
> Anything that appears after this sentence is inserted by
> Yahoo (or others) and may not be a good idea.
>
> ____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>

>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7559. Re: [TS-520_820_530_830] Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 10:59:31 UTC
From: Walt Breining
Topic: 7530 Message: 7559

If possible, let me know what pins that you replaced. When the time comes to remove the light bulb be SURE that you have the proper fuse installed. I think it is 5 no more than 6 amps for 120 v operation and 4 amps for 220 volt operation. It must be a fast blow type.

Check the SG switch from time to time as it can get easily bumped. I picture a Murphy's law scenario where you fixed the grid bias problem when you fixed the pin connectors but bumped the SG switch in the process leaving you chasing wild gooses. Hey, that's the kind of thing that happens to me.

In USB mode, Transmit
Check the voltage on the point FG on the Final unit board. It should be a minus voltage. Now this is where my diagram lets me down. If you have a diagram, can you see what the voltages are supposed on the B,E,C of Q5 on the RF board. The voltage on FG should be minus and change as you change the bias control. The bias control controls Q5 and Q5 controls the bias to the control grid.

My diagram is very bad in the area of Q5 and I cannot read the voltages. If the bias control does not change the voltage at FG, go to the center wiper of the bias control and see if it changes as you change the bias control.

Check the voltages on the E, B and C of Q5 on the RF board.

The voltages may read a tiny bit low with the light bulb in line.

Vy 73, Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 10, 2006 8:06 PM
Subject: [TS-520_820_530_830] Re: Ts-820S

> Thanks Pete,
> I found That problem. Seems there were some intermitent connections
> inside the 3 , 10 pin connectors that are at the TOP of the RF board.
> Got in there and replaced some bad terminals (connector side) and
> that Problem is now Gone. The light bulb glows dim again.
>
> Now, I just need to get some bias current and see what goes. I still
> show 0 on the IP current when I am looking for the 60 Ma idle current.
> Thanks for the suggestion !
> 73
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage

> <pmarkavage@...> wrote:
> >
> > Take the three tubes out, and then turn on the heater switch, and see if
> > it does the same thing.
> >
> > Pete, wa2cwa
> >
> >
> > On Wed, 10 May 2006 23:40:16 -0000 "Gordon" <n6wk@...> writes:
> > Walt and group,
> > New problem showed up Toady. The Light Bulb Glows very dim when I
> > turn the rig on then stops glowing all together.Rig receives just
> > GREAT. All is well. Then, When I turn the Heater switch on, The light
> > starts to get bright, then dims way down. Within a minute, the bulb
> > starts to get brighter and brighter and even after I turn the Heater
> > switch OFF, it starts to glow Really Bright. I have to Shut the rig
> > off to get the bulb to go out.
> > If I leave the heater switch off after I have turned on the radio, The
> > Radio Receives fine. This problem only starts After The Heater switch
> > is turned on. So, I thought maybe a bad tube, so I replaced the
> > Driver and Both 6146B's and Same Result. Suggestions ???
> >
> > Maybe I should just make this TS-820S a Receiver ?? :-)
> > Thanks for all the Help Guys! Especially Walt!!
> > 73
> > Gordon
> >
> > -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > You are right Walt. R6 measured way too high, instead of 56k it
> > > measured almost 700k. Replaced the Dividing resistors and Now I have
> > > about 105 Volts on the SG in the Tune Postion.
> > >
> > > I measured the High Voltage right at the plate caps it shows around
> > > 800 volts on each of the finals.
> > >
> > > Gordon
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > wrote:
> > > >
> > > > The divider resistors for the screen voltage in Tune need to be
> > > replaced.
> > > > This will affect only the tune position. Next you need to check
> > for high
> > > > voltage on the tube plate caps. Be careful, it is over 800 V. If you
> > > are not

> > > > familiar with measuring voltages this high or if your meter will not
> > > go that
> > > > high, wait and I will get back to you this morning.
> > > >
> > > > You will also need to check the control grid bias. I will help you
> > > with that
> > > > when I have more time this morning.
> > > >
> > > > Vy 73, Walt N9WB
> > > >
> > > > ----- Original Message -----
> > > > From: "Gordon" <n6wk@>
> > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > Sent: Wednesday, May 10, 2006 12:30 PM
> > > > Subject: [TS-520_820_530_830] Re: Ts-820S
> > > >
> > > >
> > > > > Ok Walt,
> > > > > Yes, all three tubes have the Filaments lit. There Is NOTHING
> > > in the
> > > > > key jack. I'm in the middle of the 20 meter band (I tried other
> > bands
> > > > > also)
> > > > > R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> > > > > Voltage at the SG terminal in ALL modes EXCEPT tune is about 210
> > Volts
> > > > > In tune, It drops to 17 volts. Still No Bias Current and No output
> > > at all.
> > > > > I have to run some errands, but I'll do some more checking when
> > I get
> > > > > back.
> > > > >
> > > > > Gordon
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > > > wrote:
> > > > > >
> > > > > > Gordon:
> > > > > >
> > > > > > First, look and see if the filaments are lighting in all 3
> > tubes.
> > > > > > Be sure that nothing is plugged in the CW key jack.
> > > > > > Be in a Amateur band, band position not WWV.
> > > > > >
> > > > > > Next with the rig in SSB, mike gain fully DOWN place meter
> > switch to
> > > > > IC and
> > > > > > see if you get any IC as you turn the bias control on the

> back of
> > > > > the rig.
> > > > >
> > > > > >
> > > > > > ONLY If you CANNOT get an IC reading in the first step above
> > do the
> > > > > > following instead.
> > > > > > >
> > > > > > With the rig on and in transmit measure the DC voltage at the
> > point
> > > > > labeled
> > > > > > SG on the bottom of the final board. It will be around 210
> VDC on
> > > > > all modes
> > > > > > except tune and about half that on tune.
> > > > > > >
> > > > > > Now, unplug the rig, let it set for a few minutes and discharge
> > > the high
> > > > >
> > > > > > voltage.
> > > > > > >
> > > > > > On the final unit board,
> > > > > > >
> > > > > > With an ohm meter check R 5 and R 6, they should read 100 ohms
> > > each. The
> > > > > > Screen voltage goes through these resistors. It is common for
> > these
> > > > > > to open
> > > > > > due to a bad tube.
> > > > > > >
> > > > > > Check R 2 and R 3 they should read 5 ohms total. They are 10
> ohms
> > > > > each and
> > > > > > are in parallel. The tube cathode current flows through these.
> > It is
> > > > > also
> > > > > > common for these to open due to a bad tube.
> > > > > > >
> > > > > > Check L1 and L2. They should read 0 ohms. Screen and control
> > grid
> > > > > bias goes
> > > > > > through these choke coils.
> > > > > > >
> > > > > > Let me Know whether all of this checks out.
> > > > > > >
> > > > > > If any of the above parts are bad, after replacing them use the
> > > > > light bulb
> > > > > > in case of a tube short.
> > > > > > >
> > > > > > Vy 73, Walt N9WB

> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7560. Re: Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 11:31:48 UTC
From: Ellen R
Topic: 7550 Message: 7560

Thanks Bob,

I sort of figured that it was an early version, since the rigs weren't called the TS-820S, until the digital display was made a standard feature. Does the TS-520S come standard with a speech processor (like my 820 has)? I only had a TS-520S for a couple of months or so back in the spring/early summer of 1986, so I don't remember if I ever saw it on the TS-520S I used to own.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> Hi Ellen,
> I think your TS-820 is most likely from late 1976 through 1977. The digital
> display was offered as an option for a time, but from the ads in QST and CQ, I
> gather that few TS-820 models were sold by the end of 1977. The TS-520S had
> come out by then and had most of the features of the TS-820 (except for the IF
> shift and voice monitor). I was never able to determine the age of my TS-520S
> except that it has to be from mid 1977 to mid 1979.
> I have 14 HF rigs; Swan, Galaxy, Heathkit, Icom and the Kenwood, and I have
> been able to find the date for all but the Kenwood to the nearest month.
> Just my 2 cents. I hope this helps a little
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7561. Re: YG455C Filter for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 13:46:04 UTC
From: belbert2002
Topic: 7520 Message: 7561

Julio, your posting is much appreciated. I found a few of the YG455C1 filters posed for sale on www.eHam.net, eBay and www.qth.com. Check these and you'll find them. They seem to go for between $80 and $100 US. If you know a listing of the right filter, I'd appreciate hearing via email. Please send me an email if you have trouble finding the filter you want (k6zb@arrl.net)

I'm curious if you think that this filter is that much of a help over just having the YK-88C.

Best 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "ve3fh" <cx9ct@...> wrote:
>
> I am afraid YG-455C and YG-455C-1 are not compatible with each,
they
> are physically different one: is a solder type and the other is a
> plug-in style. And, more importantly, their center frequencies are
> different: 455.7kHz vs. 455.0kHz. I have a table with the specs for
> many Kenwood filters, I can upload it if anybody wants it, not sure
> where I got though.
>
> I do have a YG-455C in my TS-830S but I am not selling it, and I am
> looking for a YG-455C-1 for my TS-940S in case anyone has one for
> sale please let me know.
>
> Someone who has a YG-455C for sale emailed me about two weeks ago
if
> I find that email I will let you know.
>
> 73,
> Julio VE3FH
>
> --- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@>
> wrote:
> >
> > Looking at what's generally available in 500 Hz CW 455 kHz IF
> filters
> > from Kenwood, I'm finding that the YG-455C-1 can be found at eBay
> and
> > at QTH.com, etc. This was made available for rigs after the 830S
> and
> > presumable has a different physical (and electrical?) interface.
I
> > wonder if anyone knows if this filter will work with the 830S and
> > what's involved with installing it.

> >
> > I'm still interested in obtaining the original equipment YG-455 C
> > filter, if any one would care to part with it.
> >
> > Thanks and 73, Bruce K6ZB
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@>
> > wrote:
> > >
> > > If anyone has one of these 500 Hz CW filters and is willing to
> part
> > > with it, please let me know (email preferred - price to be
> agreed).
> > > Thanks and 73, Bruce K6ZB
> > >
> >
>

7562. Heather switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 15:04:48 UTC
From: Daniel
Topic: 7562 Message: 7562

Hi folks

The TS-520S has a heater switch to save the tube-live on RX. But the TS-520SE doesn't have a heater switch. How is this solved at the SE model?

Daniel, HB9DDS

PS: Thanks all for the tipps, hints and URL's for a operating manual for the TS-520SE!

7563. Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 18:37:06 UTC
From: Gordon
Topic: 7530 Message: 7563

Here goes Walt,
I repaired pins # 7 on the RF2 connector and pins #4 #9 and # 10 on the RF 3 connector.
I checked, The SG switch is ON.
I checked the voltages on the Q5 transistor. My diagram (very clearly) shows two sets of numbers for each one. I assume one is in receive and the other in transmit. I have the upper value of each whether I am in transmit or receive. The Diagram shows (-97 over -50 for the base) (2.8 over 2.8 for the collector) and (-98 over -51 on the Emitter) On my rig the voltages are:
The E voltage is -97 the B voltage is -97 and the C is +2.8
I show -97 at the FG terminal. Also, the voltages on the Base and the Emitter along with the FG terminal, all change up or down about 5 volts when turning the Bias control (from -92 to -102). These voltages DO NOT change at all whether I am in receive or transmit and I still have NO bias reading.
Maybe a bad Q5 ??

I appreciate all the help Walt.
Vry 73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> If possible, let me know what pins that you replaced. When the time comes to
> remove the light bulb be SURE that you have the proper fuse installed. I
> think it is 5 no more than 6 amps for 120 v operation and 4 amps for 220
> volt operation. It must be a fast blow type.
>
> Check the SG switch from time to time as it can get easily bumped. I picture
> a Murphy's law scenario where you fixed the grid bias problem when you fixed
> the pin connectors but bumped the SG switch in the process leaving you
> chasing wild gooses. Hey, that's the kind of thing that happens to me.
>
> In USB mode, Transmit
> Check the voltage on the point FG on the Final unit board. It should be a
> minus voltage. Now this is where my diagram lets me down. If you have a
> diagram, can you see what the voltages are supposed on the B,E,C of Q5 on
> the RF board. The voltage on FG should be minus and change as you

change
> the bias control. The bias control controls Q5 and Q5 controls the
bias to
> the control grid.
>
> My diagram is very bad in the area of Q5 and I cannot read the
voltages. If
> the bias control does not change the voltage at FG, go to the center
wiper
> of the bias control and see if it changes as you change the bias
control.
>
> Check the voltages on the E, B and C of Q5 on the RF board.
>
> The voltages may read a tiny bit low with the light bulb in line.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, May 10, 2006 8:06 PM
> Subject: [TS-520_820_530_830] Re: Ts-820S
>
>
> > Thanks Pete,
> > I found That problem. Seems there were some intermitent connections
> > inside the 3 , 10 pin connectors that are at the TOP of the RF board.
> > Got in there and replaced some bad terminals (connector side) and
> > that Problem is now Gone. The light bulb glows dim again.
> >
> > Now, I just need to get some bias current and see what goes. I still
> > show 0 on the IP current when I am looking for the 60 Ma idle current.
> > Thanks for the suggestion !
> > 73
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > <pmarkavage@> wrote:
> > >
> > > Take the three tubes out, and then turn on the heater switch,
and see if
> > > it does the same thing.
> > >
> > > Pete, wa2cwa
> > >
> > >
> > > On Wed, 10 May 2006 23:40:16 -0000 "Gordon" <n6wk@> writes:
> > > Walt and group,

> > > New problem showed up Toady. The Light Bulb Glows very dim when I
> > > turn the rig on then stops glowing all together.Rig receives just
> > > GREAT. All is well. Then, When I turn the Heater switch on, The
light
> > > starts to get bright, then dims way down. Within a minute, the bulb
> > > starts to get brighter and brighter and even after I turn the Heater
> > > switch OFF, it starts to glow Really Bright. I have to Shut the rig
> > > off to get the bulb to go out.
> > > If I leave the heater switch off after I have turned on the
radio, The
> > > Radio Receives fine. This problem only starts After The Heater
switch
> > > is turned on. So, I thought maybe a bad tube, so I replaced the
> > > Driver and Both 6146B's and Same Result. Suggestions ???
> > >
> > > Maybe I should just make this TS-820S a Receiver ?? :-)
> > > Thanks for all the Help Guys! Especially Walt!!
> > > 73
> > > Gordon
> > >
> > > -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > You are right Walt. R6 measured way too high, instead of 56k it
> > > > measured almost 700k. Replaced the Dividing resistors and Now
I have
> > > > about 105 Volts on the SG in the Tune Postion.
> > > >
> > > > I measured the High Voltage right at the plate caps it shows
around
> > > > 800 volts on each of the finals.
> > > >
> > > > Gordon
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > > > wrote:
> > > > >
> > > > > The divider resistors for the screen voltage in Tune need to be
> > > > replaced.
> > > > > This will affect only the tune position. Next you need to check
> > > for high
> > > > > voltage on the tube plate caps. Be careful, it is over 800
V. If you
> > > > are not
> > > > > familiar with measuring voltages this high or if your meter
will not
> > > > go that
> > > > > high, wait and I will get back to you this morning.

> > > > >
> > > > > You will also need to check the control grid bias. I will
help you
> > > > with that
> > > > > when I have more time this morning.
> > > > > >
> > > > > Vy 73, Walt N9WB
> > > > > >
> > > > > ----- Original Message -----
> > > > > From: "Gordon" <n6wk@>
> > > > > To: <TS-520_820_530_830@yahoogroups.com>
> > > > > Sent: Wednesday, May 10, 2006 12:30 PM
> > > > > Subject: [TS-520_820_530_830] Re: Ts-820S
> > > > > >
> > > > > >
> > > > > > Ok Walt,
> > > > > > Yes, all three tubes have the Filaments lit. There Is
NOTHING
> > > > in the
> > > > > > key jack. I'm in the middle of the 20 meter band (I tried
other
> > > bands
> > > > > > also)
> > > > > > R5, R6 ,R2 and R3 all test fine Both L1 and L2 check fine.
> > > > > > Voltage at the SG terminal in ALL modes EXCEPT tune is
about 210
> > > Volts
> > > > > > In tune, It drops to 17 volts. Still No Bias Current and
No output
> > > > at all.
> > > > > > I have to run some errands, but I'll do some more checking
when
> > > I get
> > > > > > back.
> > > > > > >
> > > > > > Gordon
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@>
> > > > > > wrote:
> > > > > > > >
> > > > > > > Gordon:
> > > > > > > >
> > > > > > > First, look and see if the filaments are lighting in all 3
> > > tubes.
> > > > > > > Be sure that nothing is plugged in the CW key jack.
> > > > > > > Be in a Amateur band, band position not WWV.
> > > > > > > >

> > > > > > > Next with the rig in SSB, mike gain fully DOWN place meter
> > > switch to
> > > > > > IC and
> > > > > > > see if you get any IC as you turn the bias control on the
> > back of
> > > > > > the rig.
> > > > > >
> > > > > > >
> > > > > > > ONLY If you CANNOT get an IC reading in the first step above
> > > do the
> > > > > > > following instead.
> > > > > > >
> > > > > > > With the rig on and in transmit measure the DC voltage
at the
> > > point
> > > > > > labeled
> > > > > > > SG on the bottom of the final board. It will be around 210
> > VDC on
> > > > > > all modes
> > > > > > > except tune and about half that on tune.
> > > > > > >
> > > > > > > Now, unplug the rig, let it set for a few minutes and
discharge
> > > > the high
> > > > > > >
> > > > > > > voltage.
> > > > > > >
> > > > > > > On the final unit board,
> > > > > > >
> > > > > > > With an ohm meter check R 5 and R 6, they should read
100 ohms
> > > > each. The
> > > > > > > Screen voltage goes through these resistors. It is
common for
> > > these
> > > > > > > to open
> > > > > > > due to a bad tube.
> > > > > > >
> > > > > > > Check R 2 and R 3 they should read 5 ohms total. They are 10
> > ohms
> > > > > > each and
> > > > > > > are in parallel. The tube cathode current flows through
these.
> > > It is
> > > > > > also
> > > > > > > common for these to open due to a bad tube.
> > > > > > >
> > > > > > > Check L1 and L2. They should read 0 ohms. Screen and
control
> > > grid

> > > > > > bias goes
> > > > > > > through these choke coils.
> > > > > > > >
> > > > > > > > Let me Know whether all of this checks out.
> > > > > > > >
> > > > > > > > If any of the above parts are bad, after replacing them
use the
> > > > > > light bulb
> > > > > > > > in case of a tube short.
> > > > > > > >
> > > > > > > > Vy 73, Walt N9WB
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

7564. Re: Kenwood TS-520SE INSTRUCTION Manual Available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 20:25:26 UTC
From: james27613
Topic: 7556 Message: 7564

hi frank,

can you also upload it to HamFTP ? (AKA RUBE ?)

http://groups.yahoo.com/group/HAMFTP/

for those that do not know about RUBE,
check the above link.
Many manuals to d/l via ftp and also
space to upload manuals.

73 james ke4drn

7565. re: TS820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 21:08:34 UTC
From: Gordon
Topic: 3280 Message: 7565

Walt, After I checked the voltages on Q5, I went ahead and checked them on the 12by7, Q4 , Q1 and Q8. Everyone of them stays at the upper number no matter if I am in send or receive, and they all match what the schematic says they should be.
On Q2 and Q3 all the Volatges change as the schematic shows they should from receive to transmit.

7566. Re: [TS-520_820_530_830] Re: Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 21:34:25 UTC
From: bob54quam@cs.com
Topic: 7550 Message: 7566

Hi Ellen,
The TS-520S has a pretty good speech processor, but it's not adjustable as is the one on the 820. As long as the ALC limits are observed, it works great. I have had mine for about 12 years now, and the technician at Burghardts thought the finals (Japanese S2001A) were probably original. It had likely had light use before I got it because the tubes still put out full power, which is pretty good for 27-29 years!
All in all, I
think these are some of the greatest rigs ever made by any company.
If you are still looking for a SSB sched, I would like to give it a try. Give me a time and frequency and we can try to work it out. I am home most evenings.
Bob
KI0KM

[Non-text portions of this message have been removed]

7567. Re: [TS-520_820_530_830] Heather switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 21:41:37 UTC
From: bob54quam@cs.com
Topic: 7562 Message: 7567

Hi Daniel,
The TS-520SE has no heater switch; the tubes are on all the time as was the case with all or nearly all tube rigs. That switch in the 520SE switches the cw filter in and out. Conversely, the 520S has no filter switch.
Bob
KI0KM

[Non-text portions of this message have been removed]

7568. Re: Kenwood TS-520SE INSTRUCTION Manual Available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 21:55:59 UTC
From: Ravenswood
Topic: 7556 Message: 7568

Yup, I stuck it on the FTP site* last night. (Too big to put into a
Yahoo files.) Until it's moved, it's sitting in the UPLOADS/KENWOOD
folder.

f

* ftp://hamrepairs@.../

(But you'll need to be a member of HAMFTP to get the username/password.)

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi frank,
>
> can you also upload it to HamFTP ? (AKA RUBE ?)
>
> http://groups.yahoo.com/group/HAMFTP/
>
> for those that do not know about RUBE,
> check the above link.
> Many manuals to d/l via ftp and also
> space to upload manuals.
>
> 73 james ke4drn
>

7569. 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 22:00:49 UTC
From: Ravenswood
Topic: 7569 Message: 7569

Can I use any 11 meter crystals to use in my fixed channels selection with the TS-520? I'm not big on CB but it would be nice to listen or use them if needed*. Since I have only for positions in the CH. Select, does that mean I can only listen to four frequencies?

f

* Which brings me to another issue, CB's legal limit on SSB is 12 watts. Can the 520 be used as 'QRP' in any easy fashion?

7570. Re: [TS-520_820_530_830] Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 23:22:37 UTC
From: Walt Breining
Topic: 7530 Message: 7570

RE: TS 820S, no IC from final unit, control grid bias does not reduce on transmit.

Gordon:
I think that you may have a base to emitter short on Q5. Remove and test Q5 with your ohm meter. This is done by placing one ohm meter lead on the base lead and measuring the resistance from the base to the emitter and then the base to the collector. Then reverse the ohm meter leads and do the same thing. With the leads in one direction, you should see continuity from the base to the collector and then the emitter. With the leads in the other direction you should see infinite resistance from the base to the collector and then the emitter.

I am betting that you will see a short between the base and the emitter in both directions. If no then we need to find out why the bias is not reducing to 50 v on transmit.

Vy 73, Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 11, 2006 1:37 PM
Subject: [TS-520_820_530_830] Re: Ts-820S

> Here goes Walt,
> I repaired pins # 7 on the RF2 connector and pins #4 #9 and # 10 on
> the RF 3 connector.
> I checked, The SG switch is ON.
> I checked the voltages on the Q5 transistor. My diagram (very
> clearly) shows two sets of numbers for each one. I assume one is in
> receive and the other in transmit. I have the upper value of each
> whether I am in transmit or receive. The Diagram shows (-97 over -50
> for the base) (2.8 over 2.8 for the collector) and (-98 over -51 on
> the Emitter) On my rig the voltages are:
> The E voltage is -97 the B voltage is -97 and the C is +2.8
> I show -97 at the FG terminal. Also, the voltages on the Base and the
> Emitter along with the FG terminal, all change up or down about 5
> volts when turning the Bias control (from -92 to -102). These
> voltages DO NOT change at all whether I am in receive or transmit and
> I still have NO bias reading.
> Maybe a bad Q5 ??
>
> I appreciate all the help Walt.
> Vry 73,
> Gordon

>
>

7571. Re: [TS-520_820_530_830] Re: Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 23:28:59 UTC
From: Walt Breining
Topic: 7550 Message: 7571

The processor in the 520 is superior to the one in the 820. The one in the 820 would make Rube Goldberg proud. If you want to be loud and are not particularly worried about distortion, the one in the 820 is OK. I am an audiophile and am a bit picky about such things.

Vy 73, Walt N9WB

----- Original Message -----
From: <bob54quam@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 11, 2006 4:34 PM
Subject: Re: [TS-520_820_530_830] Re: Any knowledge on how to date Kenwood hybrids.

> Hi Ellen,
> The TS-520S has a pretty good speech processor, but it's not adjustable as is
> the one on the 820. As long as the ALC limits are observed, it works great.
> I have had mine for about 12 years now, and the technician at Burghardts
> thought the finals (Japanese S2001A) were probably original. It had likely had
> light use before I got it because the tubes still put out full power, which is
> pretty good for 27-29 years!
> All in all, I
> think these are some of the greatest rigs ever made by any company.
> If you are still looking for a SSB sched, I would like to give it a try.
> Give me a time and frequency and we can try to work it out. I am home most
> evenings.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>
>

7572. Re: [TS-520_820_530_830] re: TS820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 23:36:06 UTC
From: Walt Breining
Topic: 3280 Message: 7572

Well, that is an interesting observation. For now disregard what I wrote on the last post and I will look into this In the morning when I have more time.

On the AF/AVR board, there is a relay. Is this moving when you go into transmit?

Vy 73, Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 11, 2006 4:08 PM
Subject: [TS-520_820_530_830] re: TS820s

> Walt, After I checked the voltages on Q5, I went ahead and checked
> them on the 12by7, Q4 , Q1 and Q8. Everyone of them stays at the upper
> number no matter if I am in send or receive, and they all match what
> the schematic says they should be.
> On Q2 and Q3 all the Volatges change as the schematic shows they
> should from receive to transmit.
>

7573. Re: [TS-520_820_530_830] 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 23:38:39 UTC
From: Walt Breining
Topic: 7569 Message: 7573

CB rigs must be type approved so Amateur equipment is not legal on CB even
if it meets the power requirements.
Vy 73, Walt N9WB

----- Original Message -----
From: "Ravenswood" <evokefrank@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 11, 2006 5:00 PM
Subject: [TS-520_820_530_830] 11 meter Fixed Channel Crystals?

> Can I use any 11 meter crystals to use in my fixed channels selection
> with the TS-520? I'm not big on CB but it would be nice to listen or
> use them if needed*. Since I have only for positions in the CH.
> Select, does that mean I can only listen to four frequencies?
>
> f
>
> * Which brings me to another issue, CB's legal limit on SSB is 12
> watts. Can the 520 be used as 'QRP' in any easy fashion?
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>

7574. Re: Ts-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-11 23:13:59 UTC
From: Gordon
Topic: 7530 Message: 7574

Ok, Pulled Q5 and tested base to emitter and base to collector. In one direction shows infinity from base to either emitter or collector, reversed the leads and I show continuity from base to emitter and Base to collector. So, Doesn't look like it's shorted..
Where do I go from here? Walt, what is supposed to reduce the Bias on transmit to Q5 ?

Walt, Correct me if I am wrong but shouldn't pin 9 (RLK) of the RF connector 2 be pulled to ground through the relay when I switch to transmit? If it is supposed to, It doesn'T. If I'm reading this schematic correctly, when the RFK circuit is shorted to ground through the relay, That in turn would pull the one side of the Bias control pot to ground and reduce the Voltage on VR2 which is the base of Q5.

Could I have found it? If so, WHERE can I get a realy for this old rig?

thanks Walt,
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> RE: TS 820S, no IC from final unit, control grid bias does not reduce on
> transmit.
>
> Gordon:
> I think that you may have a base to emitter short on Q5. Remove and test Q5
> with your ohm meter. This is done by placing one ohm meter lead on the base
> lead and measuring the resistance from the base to the emitter and then the
> base to the collector. Then reverse the ohm meter leads and do the same
> thing. With the leads in one direction, you should see continuity from the
> base to the collector and then the emitter. With the leads in the other
> direction you should see infinite resistance from the base to the collector
> and then the emitter.
>
> I am betting that you will see a short between the base and the emitter in
> both directions. If no then we need to find out why the bias is not
> reducing to 50 v on transmit.
>

> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, May 11, 2006 1:37 PM
> Subject: [TS-520_820_530_830] Re: Ts-820S
>
>
> > Here goes Walt,
> > I repaired pins # 7 on the RF2 connector and pins #4 #9 and # 10 on
> > the RF 3 connector.
> > I checked, The SG switch is ON.
> > I checked the voltages on the Q5 transistor. My diagram (very
> > clearly) shows two sets of numbers for each one. I assume one is in
> > receive and the other in transmit. I have the upper value of each
> > whether I am in transmit or receive. The Diagram shows (-97 over -50
> > for the base) (2.8 over 2.8 for the collector) and (-98 over -51 on
> > the Emitter) On my rig the voltages are:
> > The E voltage is -97 the B voltage is -97 and the C is +2.8
> > I show -97 at the FG terminal. Also, the voltages on the Base and the
> > Emitter along with the FG terminal, all change up or down about 5
> > volts when turning the Bias control (from -92 to -102). These
> > voltages DO NOT change at all whether I am in receive or transmit and
> > I still have NO bias reading.
> > Maybe a bad Q5 ??
> >
> > I appreciate all the help Walt.
> > Vry 73,
> > Gordon
> >
> >
>

7575. RE: TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 00:04:27 UTC
From: Gordon
Topic: 66 Message: 7575

Walt,
I now have Bias Current! It was a broken terminal inside the 6 pin connector the goes to the Relay Board for that RLK circuit. With the terminal broken, The RLK cicuit couild not go to ground through the relay, thus no volatge drop on the base of Q5.
I also need to get a relay as this one seems a bit sticky!
Now I will go and see if I can get the thing to load up.
THANK you for all your Help! I'll let you know how it goes.
Vry 73,
Gordon
N6WK

7576. RE: TS820S UPDATE.. It WORKS !!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 01:00:24 UTC
From: Gordon
Topic: 7576 Message: 7576

Walt and Group,
The bad terminal on pin 5 of the 6 pin connector for the Relay board
was the Problem. I now have 60 ma. of bias at idle, I can Load and I
get about 110 Watts output. I just made 3 consecutive QSO's with North
Dakota, Pa and Pa. All three said the rig sounds GREAT !
I'm a Happy Guy.
Thanks To Walt and the Group for all your Help.
I still need to know where to get the Relay for this thing.
Best 73,
Gordon
N6WK

7577. Re: 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 01:21:21 UTC
From: Ravenswood
Topic: 7569 Message: 7577

Thanks for that Walt. Meanwhile, I've looked up some details about CB radio usage. I have a friend (don't we all) who exceeds the legal limits so I dug around to give him some tips (and warnings!)

Some interesting points I've found about CB radio usage*:

"You must use an FCC certified transmitter. No modifications are allowed to your equipment. Equipment output power is limited to 4 watts for AM transmitters and 12 watts PEP (peak envelope power) for single sideband (SSB) transmitters.

"There are no restrictions on size or type of antennas, except the antenna must not be more than 20 feet above the highest point of the structure it is mounted to and may not be more than 60 feet above the ground.

"It should be noted that under Part 95, Subpart D of the FCC rules it is illegal to engage in, or attempt to engage in communications with any station more than 250 kilometers (155.3 miles) from your location.

"There is a gap between Channel 22 and Channel 23 (which was later filled by Channels 24 and 25) for historical reasons. Before CB was in existence, there was an Amateur 11-meter band from 26.96 to 27.23 MHz, and a frequency for radio-controlled devices at 27.255 MHz. The 11-meter band became CB Channels 1 to 22, and the radio control frequency was shared with Channel 23."

SOURCE: http://en.wikipedia.org/wiki/Citizens'_band_radio

* The Citizens' Band radio services are described in part 95 of the Federal Communications Commission.

Makes one really appreciate the advantages of getting a ham radio license!

f

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> CB rigs must be type approved so Amateur equipment is not legal on CB even
> if it meets the power requirements.
> Vy 73, Walt N9WB

7578. Re: 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 03:36:46 UTC
From: Ellen R
Topic: 7569 Message: 7578

Hi Frank,

CW QRP can be pretty easily done on the TS-520 (or the other Kenwood hybrids for that matter). You just have to turn the Carrier level down (I did this with the Univ. of WI ham club's TS-830S, in order to work QRP in the mid 80s), but you might have to retune the finals, of the signal turns out to be dirty.

As for SSB QRP - no there is no quck and easy "turn a knob solution." You could turn down the mic gain, but then your modulation and audio would be lousy. The easiest way to do it, is to trick the ALC circuit, by feeding voltage (oftentimes just as simple as a 9V battery), into the appropriate acessory pin, on the back panel.

73,
Ellen

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> Can I use any 11 meter crystals to use in my fixed channels selection
> with the TS-520? I'm not big on CB but it would be nice to listen or
> use them if needed*. Since I have only for positions in the CH.
> Select, does that mean I can only listen to four frequencies?
>
> f
>
> * Which brings me to another issue, CB's legal limit on SSB is 12
> watts. Can the 520 be used as 'QRP' in any easy fashion?
>

7579. Re: Any knowledge on how to date Kenwood hybrids.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 03:43:36 UTC
From: Ellen R
Topic: 7550 Message: 7579

Hi Walt,

I keep the compression level on my TS-820 below 12 o-clock, and the mic gain no more than 1 o-clock. I'm also a fiend about monitoring the ALC. I don't like to use too much gain or compression in general, because it has a tendancy to ruin clarity, and make things too muffled, and bassy sounding. I guess it's the guitarist in me (I used to play lead guitar semi-pro in rock bands); it makes me audio fussy.

As a result, I have often had unsolicted comments about having decent audio. I'll have to see if this holds true with my '820.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> The processor in the 520 is superior to the one in the 820. The one in the
> 820 would make Rube Goldberg proud. If you want to be loud and are not
> particularly worried about distortion, the one in the 820 is OK. I am an
> audiophile and am a bit picky about such things.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: <bob54quam@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Thursday, May 11, 2006 4:34 PM
> Subject: Re: [TS-520_820_530_830] Re: Any knowledge on how to date Kenwood
> hybrids.
>
>
> > Hi Ellen,
> > The TS-520S has a pretty good speech processor, but it's not adjustable as
> is
> > the one on the 820. As long as the ALC limits are observed, it works
> great.
> > I have had mine for about 12 years now, and the technician at

Burghardts
> > thought the finals (Japanese S2001A) were probably original. It
had likely
> had
> > light use before I got it because the tubes still put out full
power,
> which is
> > pretty good for 27-29 years!
> > All in
all, I
> > think these are some of the greatest rigs ever made by any
company.
> > If you are still looking for a SSB sched, I would like to give
it a try.
> > Give me a time and frequency and we can try to work it out. I am
home most
> > evenings.
> > Bob
> > KI0KM
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

7580. Re: TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 03:46:26 UTC
From: Ellen R
Topic: 66 Message: 7580

Cool! Way to go Gordon!

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Walt,
> I now have Bias Current! It was a broken terminal inside the 6 pin
> connector the goes to the Relay Board for that RLK circuit. With the
> terminal broken, The RLK cicuit couild not go to ground through the
> relay, thus no volatge drop on the base of Q5.
> I also need to get a relay as this one seems a bit sticky!
> Now I will go and see if I can get the thing to load up.
> THANK you for all your Help! I'll let you know how it goes.
> Vry 73,
> Gordon
> N6WK
>

7581. How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 03:52:43 UTC
From: Jody Mills
Topic: 7581 Message: 7581

I have a nonworking TS-520 or 520s that I want to send in for refurbishing (I'm just studying for my first license, the Tech, for now). I was just curious how to tell if what I have is the "s" model or the "plain" model?

Sincerely,

Jody Mills

7582. Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 04:09:32 UTC
From: Ravenswood
Topic: 7581 Message: 7582

Ms Mills-

I'm assuming it doesn't say so on the front of the radio, under the tuning knob? If not, one easy way to tell from an arm's length is that the WWV option is on the BAND switch on the 520S (to the right of the dial), whereas on the 520, it's a seperate silver push-button (on the left side of the dial.)

There are many other ways to tell, and I'm sure others can offer more info. Look at the links below to see pictures to get a better idea. (As found via Google Images.)

TS-520: http://www.dbeweb.com/Kenwood/TS-520.jpg
TS-520S: http://www.universal-radio.com/catalog/hamhf/ts520sL.jpg
TS-520SE: http://www.universal-radio.com/catalog/hamhf/ts520seL.jpg

f

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills" <jody.mills@...> wrote:
>
> I have a nonworking TS-520 or 520s that I want to send in for
> refurbishing (I'm just studying for my first license, the Tech, for
> now). I was just curious how to tell if what I have is the "s" model
> or the "plain" model?
>
> Sincerely,
>
> Jody Mills
>

7583. Re: Heather switch + again 29.1 MC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 06:50:15 UTC
From: Daniel
Topic: 7562 Message: 7583

Hi Bob

I know the details. My questions was when there is no heater swich, does this shorten the tube's life? If yes I'm wondering what is the reason to "forgot" this swich!!

29.1 Problem on the TS-520SE:

When I switch to the 29.1 position on the band selector switch, I have no RX and TX signal (and nothing to display on the DG-5). Position 28, 28.5 and all others are OK.
Any ideas??

Daniel, HB9DDS

7584. Re: [TS-520_820_530_830] Re: Heather switch + again 29.1 MC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 09:05:56 UTC
From: Walt Breining
Topic: 7562 Message: 7584

The reason for the heater switch was to reduce the current when operating with a DC supply. I would not worry about the lack of the heater switch. Often these switched failed and we disable them leaving the heaters on.

In the US, these rig often were modified for use on the 11 meter band. Sometimes one or more of the ten meter crystals is wrong or missing. I suspect that the band crystal is either not running or is missing.

Vy 73, Walt N9WB

----- Original Message -----
From: "Daniel" <schaeffler@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, May 12, 2006 1:50 AM
Subject: [TS-520_820_530_830] Re: Heather switch + again 29.1 MC

> Hi Bob
>
> I know the details. My questions was when there is no heater swich, does this shorten the
> tube's life? If yes I'm wondering what is the reason to "forgot" this swich!!
>
> 29.1 Problem on the TS-520SE:
>
> When I switch to the 29.1 position on the band selector switch, I have no RX and TX signal
> (and nothing to display on the DG-5). Position 28, 28.5 and all others are OK.
> Any ideas??
>
> Daniel, HB9DDS
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>

7585. Re: [TS-520_820_530_830] Re: Heather switch + again 29.1 MC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 10:54:59 UTC
From: bob54quam@cs.com
Topic: 7562 Message: 7585

Hi Daniel,
Sorry to have misunderstood your question. I seldom turn off the heaters on my 520S and I believe the finals have been in there for 27-29 years, since the rig was new, with no sign of weakness. I doubt that it has much effect at all on tube life.
As Walt pointed out, the purpose was to reduce current when operating DC and just listening.
Bob
KI0KM

[Non-text portions of this message have been removed]

7586. Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 14:15:34 UTC
From: james27613
Topic: 7581 Message: 7586

hi Jody,

Can you post more info on what functions are not working ?

One example is static on receive, no stations at all,
common cause is missing 9 pin male plug at the rear of
the radio, this jumpers pins 8+9 for the VFO.

Do you have owner/service manuals ?

Good luck with your studies.

73 james

7587. 40m Sched?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 14:33:13 UTC
From: Hauser, Ron M.
Topic: 7587 Message: 7587

Hi Ellen, are you still looking to sched? I ought to have easy propagation to you on 40, I'm in Kansas City. When are you normally on the radio? Day would probably be better for 40m, but I work a 8-5 type job so would have to be a weekend to make it in the daytime.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Wednesday, May 10, 2006 9:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Any knowledge on how to date Kenwood hybrids.

Hi Again Everybody,

No, I don't have another problem with my TS-820. LOL The little historian inside of me is wondering how old my cool TS-820 is. I briefly looked on the back panel, but I can't find a serial number (although it could be concealed by the bottom connectors. Does anybody know how to date the TS-820 (or any of the other hybrids for that matter)? Is there a serial number, and if so what is the numbering scheme? All I have to go off of so far, is the front panel, which literally says "Kenwood TS-820", which I think indicates that it's an earlier one (I think all of the later ones automatically came with the digital display [which mine doesn't have], and were badeged "Kenwood TS-820S]). Can somebody enlighten me on this?

73,
Ellen - AF9J

P.S. - anybody interested in skedding, so I can get more audio data (for the group) on the mic I got from Ken's Electronics?

P.P.S. - Hi Gordon, I didn't know you had a TS-820S. Did you just get it?

Yahoo! Groups Links

7588. Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 15:00:53 UTC
From: Ellen R
Topic: 7581 Message: 7588

Hi Jody.

There are 2 ways to tell, which is which:

1. The logo below the tuning dial - the TS-520 logo will be "TS-520".
The TS-520S logo will be "TS-520S".

2. The bandswitch - if you're missing the logo on your radio, just
check the bands shown on the bandswitch. Both radios cover 80-10
meters. BUT, the TS-520S also covers 160 meters. This will be the
bandswitch position labled "1.8".

Of the two, the TS-520S is more common (and also more popular).

73 from another YL,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
<jody.mills@...> wrote:
>
> I have a nonworking TS-520 or 520s that I want to send in for
> refurbishing (I'm just studying for my first license, the Tech, for
> now). I was just curious how to tell if what I have is the "s" model
> or the "plain" model?
>
> Sincerely,
>
> Jody Mills
>

7589. Re: 40m Sched?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 15:11:14 UTC
From: Ellen R
Topic: 7587 Message: 7589

Hi Ron,

Sure, I'd love to sked. It'll give ma chance to test out the '820,
now that it's been tweaked & repaired by me, and get some data on the
hand mic I (told the group about) that I bought from Ken's
Electronics, for the group. I'll e-mail you for a time and freq.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M."
<eichmann@...> wrote:
>
> Hi Ellen, are you still looking to sched? I ought to have easy
> propagation to you on 40, I'm in Kansas City. When are you
normally on
> the radio? Day would probably be better for 40m, but I work a 8-5
type
> job so would have to be a weekend to make it in the daytime.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Wednesday, May 10, 2006 9:24 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Any knowledge on how to date Kenwood
> hybrids.
>
> Hi Again Everybody,
>
> No, I don't have another problem with my TS-820. LOL The little
> historian inside of me is wondering how old my cool TS-820 is. I
> briefly looked on the back panel, but I can't find a serial number
> (although it could be concealed by the bottom connectors. Does
> anybody know how to date the TS-820 (or any of the other hybrids
for
> that matter)? Is there a serial number, and if so what is the
> numbering scheme? All I have to go off of so far, is the front
> panel, which literally says "Kenwood TS-820", which I think
indicates
> that it's an earlier one (I think all of the later ones
automatically

> came with the digital display [which mine doesn't have], and were
> badeged "Kenwood TS-820S]). Can somebody enlighten me on this?
>
> 73,
> Ellen - AF9J
>
> P.S. - anybody interested in skedding, so I can get more audio data
> (for the group) on the mic I got from Ken's Electronics?
>
> P.P.S. - Hi Gordon, I didn't know you had a TS-820S. Did you just
> get it?
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

7590. Re: [TS-520_820_530_830] ALC circuit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 19:23:52 UTC
From: y4562@comcast.net
Topic: 7403 Message: 7590

I seem to have a simular problem with my ALC and Speech Processor Compression with no meter indication as Adrian. The ALC seems to be working as is the speech processor just no meter indication. About ready to checkout the meter amplifier circuits. IP, RF and HV meter indications are ok. Also the noise blanker seems to be inoperative.

Anyone in the group had similar problems and found a solution? There seems to be an expert near Atlanta, Ga. named Bill that I have heard is familiar with the ins and outs of the TS-830. This radio is pretty trouble free since I don't read much about any problems with this radio.

Any help would be appreciated before I dig in further.

Larry WB6NYR
----- Original Message -----
From: alpyke
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, April 27, 2006 4:54 PM
Subject: [TS-520_820_530_830] ALC circuit

Anyone know how the ALC feedback circuit works in the TS-830S? I
trace the signal from the FG signal of the finals to the AF board,
then to the IF board, then to the meter (mode switch set to TUNE,
meter switch set to ALC). Through it all it is an RF signal at the
carrier frequency (if I remember right, ~7.2 MHz). The FG signal at
the start is about 20Vp-p amplitude. At the first transistor stage on
the AF board it is attenuated and picks up a -9VDC bias, to become a
signal oscillating from -13V to -5V but then by the time it gets to
the meter (through the other transistor stages of the AF and IF
boards), it is of about the same AC/RF amplitude, but 0 VDC biased,
and I get no deflection of the meter. Is this signal supposed to be
RF by the time it gets to the meter? Is it just that my original 20V
p-p is too small to cause an ALC value? What is this meter really
displaying? The DC component of the voltage? The meter seems to work
on the other settings, so I don't think the meter itself is defective.

Thanks for any help - Adrian, KB1NFW

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7591. CQ CQ DE WB7AVF NY 7.055

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-12 21:35:00 UTC
From: Roberto Baca Barnard
Topic: 7591 Message: 7591

TS820 :)

7592. Source forT/R relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-13 19:46:27 UTC
From: Gordon
Topic: 7592 Message: 7592

Does anyone know a source to purchase the T/R relay for a kenwood TS-820S ? Perhaps someone has a good used one they would be willing to sell? It is NOT the Antenna Relay that I need.

Thanks,
Gordon
N6WK

7593. Kenwood TS-820 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-13 20:43:17 UTC
From: Gordon
Topic: 7593 Message: 7593

I found an online source for Relays, But Am NOT sure what the correct
part number is for the T/R relay on the Relay board # X43-1190-00
There is a couple of relays listed ther, but under description it
just says "Relay" . They also list the Relay board, but it's $69.00
and doesn't say if it comes with the relay.
So, Anyone know the Correct part number? Is it S51-4013-05

7594. Re: [TS-520_820_530_830] Source forT/R relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-13 20:49:36 UTC
From: Dennis Windle
Topic: 7592 Message: 7594

Gordon;
I have a few new spare relays, contact me off group (windled@...) if interested.

D.Windle
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, May 13, 2006 3:46 PM
Subject: [TS-520_820_530_830] Source forT/R relay

Does anyone know a source to purchase the T/R relay for a kenwood
TS-820S ? Perhaps someone has a good used one they would be willing to
sell? It is NOT the Antenna Relay that I need.

Thanks,
Gordon
N6WK

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7595. Re: [TS-520_820_530_830] Kenwood TS-820 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-13 20:58:03 UTC
From: Dennis Windle
Topic: 7593 Message: 7595

The TS820 part list in the service manual shows PN: S51-4031-05 for the relay.

D.Windle
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, May 13, 2006 4:43 PM
Subject: [TS-520_820_530_830] Kenwood TS-820 Relay

I found an online source for Relays, But Am NOT sure what the correct
part number is for the T/R relay on the Relay board # X43-1190-00
There is a couple of relays listed ther, but under description it
just says "Relay" . They also list the Relay board, but it's $69.00
and doesn't say if it comes with the relay.
So, Anyone know the Correct part number? Is it S51-4013-05

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7596. looking for VFO-520 cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-14 00:08:55 UTC
From: Jeff
Topic: 7596 Message: 7596

Looking for the connecting cable for the VFO-520 for my TS-520SE.
I've been a-Googling, but not many results. Same on ebay and other
sites. Does anyone have a source for this cable?

Thanks and 73,

Jeff, KF5KWO
Helotes, TX

7597. Determining Signal Strength on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-14 03:21:53 UTC
From: Kevin Keyes
Topic: 7597 Message: 7597

I am a new owner of a TS-830s and can't figure out how to determine a station's RST using the 830's meter. What meter setting do I use and how do I read the meter?

I realize this is a very rudimentary question, but I would really like to give stations an honest RST rather than the standard "5/9".

Thanks for the help!

Kevin, KI4KFS

7600. Re: Determining Signal Strength on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-14 04:06:46 UTC
From: Ravenswood
Topic: 7597 Message: 7600

The TS-830S instruction manual says:

"In receive the meter is automatically an S-meter, and shows received signal strength on a scale of 0 to 40 db over S9

"Turn fully clockwise [the RF GAIN control] for maximum gain and a correct S-meter reading.

"In transmit, meter function depends on the position of the METER switch..."

Also, the S-meter is usually derived from the receiver AGC, thus be sure to have your AGC enabled. OFF will not show a S-meter reading.

Hope that helps.

73 Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Keyes" <kskeye@...> wrote:
>
> I am a new owner of a TS-830s and can't figure out... [snip]

7601. Re: [TS-520_820_530_830] Source forT/R relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-14 09:41:46 UTC
From: Dave and Loraine
Topic: 7592 Message: 7601

Hi Gordon,
Careful cleaning of your relay with De-oxit may work if it looks OK.
See previous posts.
Cheers
Dave F4EYK

7602. TS-820, and Ken's Electronics mic info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-14 14:05:56 UTC
From: Ellen R
Topic: 7602 Message: 7602

Hi Everybody,

Bob, KI0KM, and I were able to hook up in our 40m sked on Thursday night, and in spite of the QRN (S7 to S8 noise), I had 2 other QSOs after Bob and I finshed up. All of the audio reports were good for the mic I bought from Ken's Electronics.

The rig's working OK, but I may have to do a ittle more tweaking. It's putting out (into my dummy load), about 70-90W, and I'm not seeing a really pronounced dip, when I dip the plate current. The dip is there, but it isn't much. Also, on the 40m phone band, I pretty much have to max out the load control in the counterclockwise direction. I'm not sure if these are any real concerns. They could just be due to the fact that my new finals are 6146Ws, and not the 6146Bs the Kenwood hybrids were originally designed to run with. Yes, I know they are both 6146 tubes, but since one has a W, and the other a B designation, that means that there are some electrical differences (kind of like the difference between a KT-66, and a 6L6 tube - both are 6L6 types used in early Marshall guitar amps, but they both behave a little differently in a Marshall amp).

73,
Ellen - AF9J

P.S. - the weather is lousy (cold and rainy), and I have a couple of free hours, until I have to go help out at the animal shelter. I think I'll fire up the TS-820, and get dome more mic data. I'll start on 50, and them move to 20 or 15m.

7603. Determining Signal Strength on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-15 00:58:14 UTC
From: pjcoombs@frontiernet.net
Topic: 7597 Message: 7603

Hi Kevin,

The RST system came long before there were S meters. It's all done by ear. Give the other op an honest report, based on what you hear, not on what your meter says you hear. Also offer your operating conditions, antenna(details), QTH, QSB/QRM, and your receiver. This will give the other op a better understanding of how they are really performing with the propagation conditions. Have fun with that 830S, it's a very nice rig.

73. jay

>Message 6
> From: "Kevin Keyes" kskeye@...
> Date: Sat May 13, 2006 8:21pm(PDT)
>Subject: Determining Signal Strength on TS-830S
>
>I am a new owner of a TS-830s and can't figure out how to determine a
>station's RST using the 830's meter. What meter setting do I use and
>how do I read the meter?
>
>I realize this is a very rudimentary question, but I would really like
>to give stations an honest RST rather than the standard "5/9".
>
>Thanks for the help!
>
>Kevin, KI4KFS
>

7604. Re: CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-15 01:11:32 UTC
From: Ravenswood
Topic: 7407 Message: 7604

Well, cracked open to case to make other adjustments and noticed I
don't have a CW filter. Thanks for those that advised me on finding it.

The VG-3395C seems to be rare to come by, so I'm wondering if another
Kenwood filter would be a suitable replacement?

Thanks!

f

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...>
wrote:
>
> Switch the radio to 20 meters in USB postion. Tune in
> a SSB station. Now switch to CW postion. It will be
> hard to tune in the SSB station or not at all if you
> have a 500 Hz filter installed.
>
> 73 de Bill, N4DH
>
> --- Ravenswood <evokefrank@...> wrote:
>
> > How can I tell if my TS-520 has a CW filter in it
> > without cracking
> > open the case?
> >
> > 73, Frank K2NCC

7605. Re: CW Filter?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-15 12:29:14 UTC
From: belbert2002
Topic: 7407 Message: 7605

All of the fileter options are given on page 24 of the instruction manual (the next to last entry in the table has a missing "N" after "Y55C). The CW filers are still available from individuals using the Internet. I recently purchased a TS-830S with the cw filter for the 8.83 MHz IF installed. That's the YK-88C version with 500 Hz bandwidth, in the small can that plugs in. These show up on eBay and posting sites like QTH.com and seem to sell for around $80.

I just purchased the CW filter for the 455 kHz IF, the YG-455CN which is soldered in and has 250 Hz bandwidth (the YG-455C has 500 Hz bandwidth), which I found on eBay last Friday. I searched for "Kenwood YG filter" and the posting came up. The 455 kHz CW filters don't seem to come on the market very often. So, with a little patience, you will be successful getting your hands on one of the CW filter types for your rig.

My intention is to install the new 250 Hz filter along with the other one at 500 Hz filter and see how they play together. Something I'm toying with is to make that "filter switch" mod and do it so that I can switch the narrow filter in separately from the wider one and thus have two different CW filter bandwidths. I think that the two position switch called FIXED might be a good choice for that purpose as I don't plan to run crystals. Any comments would be appreciated.

Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <k2ncc@...> wrote:
>
> Well, cracked open to case to make other adjustments and noticed I
> don't have a CW filter. Thanks for those that advised me on finding it.
>
> The VG-3395C seems to be rare to come by, so I'm wondering if another
> Kenwood filter would be a suitable replacement?
>
> Thanks!
>
> f
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@>
> wrote:
> >
> > Switch the radio to 20 meters in USB postion. Tune in
> > a SSB station. Now switch to CW postion. It will be

> > hard to tune in the SSB station or not at all if you
> > have a 500 Hz filter installed.
> >
> > 73 de Bill, N4DH
> >
> > --- Ravenswood <evokefrank@> wrote:
> >
> > > How can I tell if my TS-520 has a CW filter in it
> > > without cracking
> > > open the case?
> > >
> > > 73, Frank K2NCC
>

7606. TS-820 FS at Dayton

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-15 16:29:10 UTC
From: j. viele
Topic: 7606 Message: 7606

Hi all, I have a nice 82? (SN 46?488) with good tubes
and matching VFO-82? (SN 64??35) with cable for sale
at Dayton. Included is the 82? manual, chrome D1?4
mike on Astatic PTT stand, spare new 12BY7A driver
tube, shorting plug for using rig without the external
VFO and AC cord. The rig has the DG1A installed but
this unit needs minor repair to correct a digit that
occasionally floats. Can be seen at Dayton flea
market spot #2194. Asking $350 for everything, don't
want to separate pieces. Also have 820(S) Service
Manual in excellent condition for $15. Inquiries
welcomed at: w8jv@... prior to Thursday 5/18.
This is a nice rig but I just don't need it any more,
have an 83?S station that I use now. Thanks and 73

7607. Best way to sell 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 01:22:19 UTC
From: Bill
Topic: 7607 Message: 7607

Hello All,

Are there any advisable do's or don'ts about listing an 830 on Ebay? I have sold a couple of things there, but not as expensive as this. Also, there seems to be quite a range associated with 830 sales. Any advice on getting the best price?

Thanks,

Bill

7608. Re: Best way to sell 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 01:47:10 UTC
From: Kevin Keyes
Topic: 7607 Message: 7608

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <wb5dx@...> wrote:
>
> Hello All,
>
> Are there any advisable do's or don'ts about listing an 830 on
Ebay? I
> have sold a couple of things there, but not as expensive as this.
> Also, there seems to be quite a range associated with 830 sales.
Any
> advice on getting the best price?
>
> Thanks,
>
> Bill
>

Hi Bill,

As an avid Ebayer who has bought and sold many items, my first word of advice is know the item and be honest in your description. I've seen too many 830s up for auction where the seller simply cut and pasted the basic specs but never included such information as the types of filters installed (if any), serial number, ownership history, service history, signal reports you've received, etc. The more detail you provide the more interest you will generate which will translate into more bids. Put your call sign in the description as well. I think a lot of people searching Ebay for rigs are more likely to buy from a fellow ham than from a "Power Seller". Include photos of the front, side, back and bottom. Finally, avoid setting a reserve. Nothing is more irritating to a bidder than submitting a reasonable bid only to find out that the reserve has not been met. This practice forces bidders to bid against themselves and will drive bidders away. Good luck and I hope you get the price your shooting for.

73,
Kevin

7609. Re: [TS-520_820_530_830] Best way to sell 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 01:39:43 UTC
From: gjcollins@cox.net
Topic: 7607 Message: 7609

Hi Bill,

I've done a lot of selling (and too much buying) on eBay and I think that good photos are very important. You want the prospective buyer to look at the photos and think, "boy, I'd really like to have that one". I try to make the photos answer as many questions about the item as I can. I always like to have good shots showing the insides of a rig. Of course this assumes the rig is in good condition! I think sometime spent cleaning a piece of equipment before you photograph it is time well spent.

When you do sell your 830, pack it well and insure it. If you take a check, make sure it clears your bank before shipping. It's hard to go wrong selling on eBay if you just take some common sense precautions. I've sold a lot of equipment to overseas buyers without any problems, and selling overseas can open up your market.

Good luck and 73,

George
----- Original Message -----
From: Bill
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, May 15, 2006 9:22 PM
Subject: [TS-520_820_530_830] Best way to sell 830

Hello All,

Are there any advisable do's or don'ts about listing an 830 on Ebay? I
have sold a couple of things there, but not as expensive as this.
Also, there seems to be quite a range associated with 830 sales. Any
advice on getting the best price?

Thanks,

Bill

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.5.6/340 - Release Date: 5/15/2006

[Non-text portions of this message have been removed]

7610. Re: [TS-520_820_530_830] Best way to sell 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 05:18:19 UTC
From: Charles Mortimer
Topic: 7607 Message: 7610

give a guarantee with it .... then people will have faith in it
and not another piece of discarded and non working piece of gear
give them plenty of pictures (good ones) all around views and inside
own up to all scratches and dents and close up pictures and design a good
page that will get you good brownie points (THE WORD IS
RESENTATION) if you get that right you will sell it for the best
possible price
REMEMBER PRESENTATION OF YOUR PICTURES WILL REWARD YOU
VK6YCJ Charles
----- Original Message -----
From: "Bill" <wb5dx@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, May 16, 2006 9:22 AM
Subject: [TS-520_820_530_830] Best way to sell 830

> Hello All,
>
> Are there any advisable do's or don'ts about listing an 830 on Ebay? I
> have sold a couple of things there, but not as expensive as this.
> Also, there seems to be quite a range associated with 830 sales. Any
> advice on getting the best price?
>
> Thanks,
>
> Bill
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7611. what is CH on TS-830s Schematic ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 17:17:23 UTC
From: Gordon
Topic: 7611 Message: 7611

I have been looking at my schematic for my TS-830S and in Tracing the 14 volt supply, I have come across a component on the Schematic labeled "CH". It is just to the upper right (on the diagram) of the Relay board. It looks like some sort of Push switch, but problem is, I have no idea what "CH" is or where "CH" is located. Can anyone tell me?

thanks.
Gordon
N6WK

7612. Re: [TS-520_820_530_830] what is CH on TS-830s Schematic ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 20:01:03 UTC
From: Dennis Windle
Topic: 7611 Message: 7612

Gordon;
In the TS820/S, this is a low frequency choke on the 14V Line and it is located on the topside of the chassis in the back left corner right next to the main transformer (it looks like a filament transformer) the part number is L15-0002-15 which is pointed out on page 21 of the parts list in the Service manual (right above the ANT relay in the list of parts). If you have the TS820S or the TS820 with the Digital readout option the 5V power supply for the option is mounted above it so it is harder to see.

D.Windle
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 16, 2006 1:17 PM
Subject: [TS-520_820_530_830] what is CH on TS-830s Schematic ?

I have been looking at my schematic for my TS-830S and in Tracing
the 14 volt supply, I have come across a component on the Schematic
labeled "CH". It is just to the upper right (on the diagram) of the
Relay board. It looks like some sort of Push switch, but problem is, I
have no idea what "CH" is or where "CH" is located. Can anyone tell me?

thanks.
Gordon
N6WK

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7613. Re: what is CH on TS-830s Schematic ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-16 23:45:25 UTC
From: Gordon
Topic: 7611 Message: 7613

Thanks Dennis,
I see it. I would have NEVER guessed that the Symbol on the
Schematic was for a choke!

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
<windled@...> wrote:
>
> Gordon;
> In the TS820/S, this is a low frequency choke on the 14V
Line and it is located on the topside of the chassis in the back left
corner right next to the main transformer (it looks like a filament
transformer) the part number is L15-0002-15 which is pointed out on
page 21 of the parts list in the Service manual (right above the ANT
relay in the list of parts). If you have the TS820S or the TS820 with
the Digital readout option the 5V power supply for the option is
mounted above it so it is harder to see.
>
> D.Windle
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 16, 2006 1:17 PM
> Subject: [TS-520_820_530_830] what is CH on TS-830s Schematic ?
>
>
> I have been looking at my schematic for my TS-830S and in Tracing
> the 14 volt supply, I have come across a component on the Schematic
> labeled "CH". It is just to the upper right (on the diagram) of the
> Relay board. It looks like some sort of Push switch, but problem is, I
> have no idea what "CH" is or where "CH" is located. Can anyone
tell me?
>
> thanks.
> Gordon
> N6WK
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7614. What driver and final tube type?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 10:12:09 UTC
From: Daniel
Topic: 7614 Message: 7614

Hi folks

I would like to know what are the "best" tubes for the driver and the finals (what output) for a

- TS-520S
- TS-520SE

And what types are originally installed?

Daniel, HB9DDS

7615. Re: What driver and final tube type?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 10:57:47 UTC
From: valuedprofile
Topic: 7614 Message: 7615

You might start with:

The 6146 Family of Tubes
http://home.comcast.net/~k9sth/The_6146_Family_of_Tubes_1.htm

(also available as a DOC in the FILES section of this repeater)

f

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> Hi folks
>
> I would like to know what are the "best" tubes for the driver and
the finals (what output) for a
>
> - TS-520S
> - TS-520SE
>
> And what types are originally installed?
>
> Daniel, HB9DDS
>

7616. Cleaning & band switch coupling

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 11:48:41 UTC
From: george dumond
Topic: 7616 Message: 7616

HI all.
Thanks to James I have an old TS-530S that works like
new after replacing the hv caps.
I am now going to completly clean and replace a
cracked band switch coupling. I am looking for a metal
coupling, anyone know a source? And how best to clean
the old girls innards. Any help will be appreciated.
Also I am considering the purchase of a matched pair
of 6146W tubes. Ellen I think i read where you
replaced your finals with 6146w tubes, Did you get
them nuteralized to your satisfaction?
Thanks George K0GWD

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7617. Re TS-830s CH in 14v supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 11:52:12 UTC
From: Phil Hartwell
Topic: 7617 Message: 7617

Hi Gordon,
My circuit drawings show no "CH" but there is a choke L5 which is located between the two largest electrolytic capacitors C83 & C84 on the AF board.
The 14 volt supply feeds this circuit, which is the 12 Volt regulator based around transistor Q34 and associated components, which in turn feeds the 9.000 Volt regulator Q30. Adjust VR4 on the AF board for exactly 9.000V at TP6 WRT TPG. This supply feeds the VFO amongst other things and must be rock steady.
Best 73, Phil, VK6ABL.

The LOST Ninja blog: Exclusive clues, clips and gossip.

[Non-text portions of this message have been removed]

7618. Re: Cleaning & band switch coupling

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 15:47:28 UTC
From: Ellen R
Topic: 7616 Message: 7618

Hi George,

Yes I did get them decently neutralized. My TS-820 works fine. But the power does eem to be about 10-20W lower that what a typical Kenwood hybrid should put out (about 100W). I'm not sure if this is due something else needing tweaking, or if this is just due to the fact that a 6146W is not exactly identical to a 6146B (which is what these rigs originally came with). The problem is, that 6146Bs seem to be very hard to find.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, george dumond <dums2@...> wrote:
>
> HI all.
> Thanks to James I have an old TS-530S that works like
> new after replacing the hv caps.
> I am now going to completly clean and replace a
> cracked band switch coupling. I am looking for a metal
> coupling, anyone know a source? And how best to clean
> the old girls innards. Any help will be appreciated.
> Also I am considering the purchase of a matched pair
> of 6146W tubes. Ellen I think i read where you
> replaced your finals with 6146w tubes, Did you get
> them nuteralized to your satisfaction?
> Thanks George K0GWD
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7619. Removing of the driver tube V1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 16:57:19 UTC
From: Daniel
Topic: 7619 Message: 7619

Hi folks

The tube V1 has already a black "coat" over the tube:

- How can I remove this black "coat"? It is fixed on the botton but I dont know exactly how!

- For what is this black "coat"?

Daniel, HB9DDS

7620. Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 16:38:43 UTC
From: N3DOK
Topic: 7620 Message: 7620

I have purchased GE 6146B tubes from RF Parts.

http://www.rfparts.com/index.html

Bob N3DOK

[Non-text portions of this message have been removed]

7621. Re: Removing of the driver tube V1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:02:55 UTC
From: Gordon
Topic: 7619 Message: 7621

It shouldn't be "Permantly" fixed. Mine has a small metal strip that runs up the inside of the black coat against the glass of the Tube grounding the Coat. It should just slide right off,Somtimes (actually most of the time) the tube will come out of the socket with the black coat attached, then I just slide the tube out, although it might be a bit tight.
At least this has been my Experience.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi folks
>
> The tube V1 has already a black "coat" over the tube:
>
> - How can I remove this black "coat"? It is fixed on the botton but I dont know exactly how!
>
> - For what is this black "coat"?
>
> Daniel, HB9DDS
>

7622. Re: Cleaning & band switch coupling

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:05:36 UTC
From: Gordon
Topic: 7616 Message: 7622

George,
This place sells the Couplings.
http://www.partstore.com/ModelDetail.aspx?PageState=1&ModelID=65160
Might be worth giving them a Call.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, george dumond <dums2@...>
wrote:
>
> HI all.
> Thanks to James I have an old TS-530S that works like
> new after replacing the hv caps.
> I am now going to completly clean and replace a
> cracked band switch coupling. I am looking for a metal
> coupling, anyone know a source? And how best to clean
> the old girls innards. Any help will be appreciated.
> Also I am considering the purchase of a matched pair
> of 6146W tubes. Ellen I think i read where you
> replaced your finals with 6146w tubes, Did you get
> them nuteralized to your satisfaction?
> Thanks George K0GWD
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7623. Re: Re TS-830s CH in 14v supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:08:43 UTC
From: Gordon
Topic: 7617 Message: 7623

Thanks Phil,
Yes, I found CH right where Dennis said it was. I also adjusted VR4 to get the 9 Volts Exact as Walt had mentioned to me. I now need to trouble shoot the Speech processor as it does not seem to be working. Almost No audio with the processor on, yet great audio with it off. Thanks for the Tips!

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Phil Hartwell <vk6abl@...> wrote:
>
> Hi Gordon,
> My circuit drawings show no "CH" but there is a choke L5 which is located between the two largest electrolytic capacitors C83 & C84 on the AF board.
> The 14 volt supply feeds this circuit, which is the 12 Volt regulator based around transistor Q34 and associated components, which in turn feeds the 9.000 Volt regulator Q30.
> Adjust VR4 on the AF board for exactly 9.000V at TP6 WRT TPG. This supply feeds the VFO amongst other things and must be rock steady.
> Best 73, Phil, VK6ABL.
>
>
> ---
> The LOST Ninja blog: Exclusive clues, clips and gossip.
>
> [Non-text portions of this message have been removed]
>

7624. Re: [TS-520_820_530_830] Removing of the driver tube V1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:12:44 UTC
From: Dennis Windle
Topic: 7619 Message: 7624

Daniel;
The coat over the driver tube is a metal tube shield to prevent any emissions from the tube affecting other circuits in the general area. The shield is not "fixed" on the bottom but there is a shield grounding mechanism connected to the tube socket that has a long pin like extrusion that slides between the shield and the tube which grounds the shield and therefore any emissions making it to the shield go to ground. When you remove the tube, pull it (by the shield) straight out of the socket. The shield is real tight around the tube so it usually will not seperate from the tube. You will see the pin/extrusion as you remove the tube/shield assembly. On the tube socket the pin/extrusion is positioned between tube pins 1 & 9 (when re-installing the tube/shield assembly into the tube socket this can be used as your guide when trying to line up the tube pins to the socket as it is somewhat difficult to re-install). When re-installing the tube/shield, the pin/extrusion slides between the tube & shield assembly right up between pin 1 &9 (real tight, so be patient guiding it as you don't want to break that pin/extrusion off and loose the ground to the shield).

D.Windle
----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 17, 2006 12:57 PM
Subject: [TS-520_820_530_830] Removing of the driver tube V1

Hi folks

The tube V1 has already a black "coat" over the tube:

- How can I remove this black "coat"? It is fixed on the botton but I dont know exactly how!

- For what is this black "coat"?

Daniel, HB9DDS

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7625. Re: Removing of the driver tube V1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:10:25 UTC
From: Gordon
Topic: 7619 Message: 7625

Daniel,
The "Coat" is to Shield the Tube.
I forgot to mention that!
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> Hi folks
>
> The tube V1 has already a black "coat" over the tube:
>
> - How can I remove this black "coat"? It is fixed on the botton but
I dont know exactly how!
>
> - For what is this black "coat"?
>
> Daniel, HB9DDS
>

7626. Re: [TS-520_820_530_830] Re: Re TS-830s CH in 14v supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:21:26 UTC
From: Dennis Windle
Topic: 7617 Message: 7626

Gordon;
I assumed you were referring to your TS-820s based on your question content and our earlier communications, even though you had the "TS-830s" in your heading. Phil was giving you information for the TS-830S.

D.Windle
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 17, 2006 2:08 PM
Subject: [TS-520_820_530_830] Re: Re TS-830s CH in 14v supply

Thanks Phil,
Yes, I found CH right where Dennis said it was. I also adjusted VR4 to get the 9 Volts Exact as Walt had mentioned to me. I now need to trouble shoot the Speech processor as it does not seem to be working. Almost No audio with the processor on, yet great audio with it off.
Thanks for the Tips!

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Phil Hartwell <vk6abl@...> wrote:
>
> Hi Gordon,
> My circuit drawings show no "CH" but there is a choke L5 which is located between the two largest electrolytic capacitors C83 & C84 on the AF board.
> The 14 volt supply feeds this circuit, which is the 12 Volt regulator based around transistor Q34 and associated components, which in turn feeds the 9.000 Volt regulator Q30.
> Adjust VR4 on the AF board for exactly 9.000V at TP6 WRT TPG. This supply feeds the VFO amongst other things and must be rock steady.
> Best 73, Phil, VK6ABL.
>
>
> ---------------------------------
> The LOST Ninja blog: Exclusive clues, clips and gossip.
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7627. Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 18:34:08 UTC
From: Ellen R
Topic: 7620 Message: 7627

I asked about the 6146Bs, when I called RF Parts, and they told me that
they don't have them in stock anymore.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> I have purchased GE 6146B tubes from RF Parts.
>
> http://www.rfparts.com/index.html
>
> Bob N3DOK
>
>
> [Non-text portions of this message have been removed]
>

7628. Re: Re TS-830s CH in 14v supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 21:51:37 UTC
From: Gordon
Topic: 7617 Message: 7628

You are Absolutely Correct Dennis. I have a TS-830S also, But I meant the TS-820S. Sorry, A senior Moment I guess. Thank you for catching my error.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <windled@...> wrote:
>
> Gordon;
> I assumed you were referring to your TS-820s based on your question content and our earlier communications, even though you had the "TS-830s" in your heading. Phil was giving you information for the TS-830S.
>
> D.Windle
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 17, 2006 2:08 PM
> Subject: [TS-520_820_530_830] Re: Re TS-830s CH in 14v supply
>
>
> Thanks Phil,
> Yes, I found CH right where Dennis said it was. I also adjusted VR4
> to get the 9 Volts Exact as Walt had mentioned to me. I now need to
> trouble shoot the Speech processor as it does not seem to be working.
> Almost No audio with the processor on, yet great audio with it off.
> Thanks for the Tips!
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, Phil Hartwell <vk6abl@>
> wrote:
> >
> > Hi Gordon,
> > My circuit drawings show no "CH" but there is a choke L5 which is
> located between the two largest electrolytic capacitors C83 & C84 on
> the AF board.
> > The 14 volt supply feeds this circuit, which is the 12 Volt
> regulator based around transistor Q34 and associated components, which
> in turn feeds the 9.000 Volt regulator Q30.

> > Adjust VR4 on the AF board for exactly 9.000V at TP6 WRT TPG. This
> supply feeds the VFO amongst other things and must be rock steady.
> > Best 73, Phil, VK6ABL.
> >
> >
> > ---------------------------------
> > The LOST Ninja blog: Exclusive clues, clips and gossip.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7629. Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 21:55:58 UTC
From: Gordon
Topic: 7629 Message: 7629

I have my 820 working pretty darn good now. Other then the Speech processor, everything is working PERFECT, or so I thought. I went to use it on CW today and I get NO sound from the Sidetone. I checked VR3 on the AF-AVR unit and it appears to check good. When I key the rig, All I get is a clicking from the speaker.. No Sidetone. Does the Sidetone come from the FIX-VOX unit or does it come from the AF- AVR unit ? I see in the schematic a circuit labeled ST from the FIX-VOX to the AF_AVF unit.
Any hints?

73,
Gordon

7630. Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 22:34:18 UTC
From: Gordon
Topic: 7620 Message: 7630

Hi Ellen,
My little TS-820S came with the Original Tubes # S2001A. I get 125
watts output to the Antenna with these tubes.
I had purchased the 6146B's from RF parts last year. So they used to
have them.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I asked about the 6146Bs, when I called RF Parts, and they told me that
> they don't have them in stock anymore.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@> wrote:
> >
> > I have purchased GE 6146B tubes from RF Parts.
> >
> > http://www.rfparts.com/index.html
> >
> > Bob N3DOK
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

7631. Re: [TS-520_820_530_830] Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-17 23:45:37 UTC
From: Dennis Windle
Topic: 7629 Message: 7631

Gordon;
Q12 on the Fix-Vox unit is the Sidetone Oscillator and it's output is fed to VR3 on the AF-AVR unit where you adjust the Sidetone input level to the AF-Amp TA7201P (same input as received audio, so if that is working the Sidetone Osc signal is either missing or being lost across a bad connection between the two boards or VR3 is corroded and you cannot tap enough signal off of it to drive the AF-Amp.

D.Windle
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 17, 2006 5:55 PM
Subject: [TS-520_820_530_830] Side Tone Circuit in TS-820S

I have my 820 working pretty darn good now. Other then the Speech processor, everything is working PERFECT, or so I thought. I went to use it on CW today and I get NO sound from the Sidetone. I checked VR3 on the AF-AVR unit and it appears to check good. When I key the rig, All I get is a clicking from the speaker.. No Sidetone. Does the Sidetone come from the FIX-VOX unit or does it come from the AF- AVR unit ? I see in the schematic a circuit labeled ST from the FIX-VOX to the AF_AVF unit.
Any hints?

73,
Gordon

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7632. Re: [TS-520_820_530_830] Removing of the driver tube V1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 00:48:19 UTC
From: Charles Mortimer
Topic: 7619 Message: 7632

when fitting the shield back on to the tube
the tube is split from top to bottom acts like a clamp what one does is here
is align the 2 edges of the shield tube so that they are edge to edge thus
enables the tube to be slid on to the driver bottle ...and make sure that
the earthling strap is inside the tube when in place give the edge the black
tube a slight pressure with the fingers and the tube will snap into place
again also be careful when fitting the tube there are small resistors
around the bottom of the tube very easy to get one fowled up in the tube
when fitting back
Charles vk6ycj
----- Original Message -----
From: "Dennis Windle" <windled@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 18, 2006 2:12 AM
Subject: Re: [TS-520_820_530_830] Removing of the driver tube V1

> Daniel;
> The coat over the driver tube is a metal tube shield to prevent
> any emissions from the tube affecting other circuits in the general area.
> The shield is not "fixed" on the bottom but there is a shield grounding
> mechanism connected to the tube socket that has a long pin like extrusion
> that slides between the shield and the tube which grounds the shield and
> therefore any emissions making it to the shield go to ground. When you
> remove the tube, pull it (by the shield) straight out of the socket. The
> shield is real tight around the tube so it usually will not seperate from
> the tube. You will see the pin/extrusion as you remove the tube/shield
> assembly. On the tube socket the pin/extrusion is positioned between tube
> pins 1 & 9 (when re-installing the tube/shield assembly into the tube
> socket this can be used as your guide when trying to line up the tube pins
> to the socket as it is somewhat difficult to re-install). When
> re-installing the tube/shield, the pin/extrusion sl
> ides between the tube & shield assembly right up between pin 1 &9 (real
> tight, so be patient guiding it as you don't want to break that
> pin/extrusion off and loose the ground to the shield).
>
> D.Windle
> ----- Original Message -----
> From: Daniel
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 17, 2006 12:57 PM
> Subject: [TS-520_820_530_830] Removing of the driver tube V1
>
>
> Hi folks
>

> The tube V1 has already a black "coat" over the tube:
>
> - How can I remove this black "coat"? It is fixed on the botton but I
> dont know exactly how!
>
> - For what is this black "coat"?
>
> Daniel, HB9DDS
>
>
>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> --
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7633. Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 02:09:01 UTC
From: Gordon
Topic: 7629 Message: 7633

Thanks for the tips Dennis, Here is something else I noticed. I can adjust the Vox to activate during SSB operation,and it works great, But It will NOT activate during CW operation , no matter how high I turn up the gain. Is that telling us something ?? I'm sort of LOST in chasing this Sidetone down!! Received Audio works fine... just NO side tone. VR3 seems to check out ok with an ohm meter.

Thanks,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <windled@...> wrote:
>
> Gordon;
> Q12 on the Fix-Vox unit is the Sidetone Oscillator and it's output is fed to VR3 on the AF-AVR unit where you adjust the Sidetone input level to the AF-Amp TA7201P (same input as received audio, so if that is working the Sidetone Osc signal is either missing or being lost across a bad connection between the two boards or VR3 is corroded and you cannot tap enough signal off of it to drive the AF-Amp.
>
> D.Windle
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 17, 2006 5:55 PM
> Subject: [TS-520_820_530_830] Side Tone Circuit in TS-820S
>
>
> I have my 820 working pretty darn good now. Other then the Speech
> processor, everything is working PERFECT, or so I thought. I went to
> use it on CW today and I get NO sound from the Sidetone. I checked VR3
> on the AF-AVR unit and it appears to check good. When I key the rig,
> All I get is a clicking from the speaker.. No Sidetone. Does the
> Sidetone come from the FIX-VOX unit or does it come from the AF- AVR
> unit ? I see in the schematic a circuit labeled ST from the FIX-VOX to
> the AF_AVF unit.
> Any hints?
>
> 73,
> Gordon
>
>
>
>

>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7634. Re: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 02:34:46 UTC
From: Dennis Windle
Topic: 7629 Message: 7634

Gordon;
The output of the Sidetone Osc on the FIX-VOX board also feeds the VOX Amp so what it tells us is that the Sidetone Osc isn't functioning therefore no Sidetone Audio and or VOX operation. I would clean the mode switch (pay most attention to the CW tab), the key jack and the connector pins on the FX3 connector to the FIX-VOX board. The key down should start up the Sidetone Osc, so either you have a connection problem in the key path that enables the Sidetone Osc or something in the Osc circuit is defective preventing it from oscilating.

D.Windle
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 17, 2006 10:09 PM
Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S

Thanks for the tips Dennis, Here is something else I noticed. I can adjust the Vox to activate during SSB operation,and it works great, But It will NOT activate during CW operation , no matter how high I turn up the gain. Is that telling us something ?? I'm sort of LOST in chasing this Sidetone down!! Received Audio works fine... just NO side tone. VR3 seems to check out ok with an ohm meter.

Thanks,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <windled@...> wrote:
>
> Gordon;
> Q12 on the Fix-Vox unit is the Sidetone Oscillator and it's output is fed to VR3 on the AF-AVR unit where you adjust the Sidetone input level to the AF-Amp TA7201P (same input as received audio, so if that is working the Sidetone Osc signal is either missing or being lost across a bad connection between the two boards or VR3 is corroded and you cannot tap enough signal off of it to drive the AF-Amp.
>
> D.Windle
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 17, 2006 5:55 PM
> Subject: [TS-520_820_530_830] Side Tone Circuit in TS-820S
>
>
> I have my 820 working pretty darn good now. Other then the Speech

> processor, everything is working PERFECT, or so I thought. I went to
> use it on CW today and I get NO sound from the Sidetone. I checked VR3
> on the AF-AVR unit and it appears to check good. When I key the rig,
> All I get is a clicking from the speaker.. No Sidetone. Does the
> Sidetone come from the FIX-VOX unit or does it come from the AF- AVR
> unit ? I see in the schematic a circuit labeled ST from the FIX-VOX to
> the AF_AVF unit.
> Any hints?
>
> 73,
> Gordon
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7635. Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 03:15:15 UTC
From: Ellen R
Topic: 7620 Message: 7635

Hi Gordon,

I got my 6146Ws from RF parts about a month ago (I was sick for a for
a few weeks, so I took me a while to get things done with the rig).
I asked them on the phone how much the 6146Bs they had listed,
as "Call for Price", were going for, and they told me that the
6146Bs, were no longer available from them.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> My little TS-820S came with the Original Tubes # S2001A. I get
125
> watts output to the Antenna with these tubes.
> I had purchased the 6146B's from RF parts last year. So they used to
> have them.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > I asked about the 6146Bs, when I called RF Parts, and they told
me that
> > they don't have them in stock anymore.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@> wrote:
> > >
> > > I have purchased GE 6146B tubes from RF Parts.
> > >
> > > http://www.rfparts.com/index.html
> > >
> > > Bob N3DOK
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
>

7636. Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 03:19:04 UTC
From: Gordon
Topic: 7620 Message: 7636

Hi Ellen,
Are there No other sources for 6146B's ??
Someone MUST have them out there. Glad I have a spare (Matched) pair
on the Shelf!!

73,
Gorodn

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Gordon,
>
> I got my 6146Ws from RF parts about a month ago (I was sick for a for
> a few weeks, so I took me a while to get things done with the rig).
> I asked them on the phone how much the 6146Bs they had listed,
> as "Call for Price", were going for, and they told me that the
> 6146Bs, were no longer available from them.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Ellen,
> > My little TS-820S came with the Original Tubes # S2001A. I get
> 125
> > watts output to the Antenna with these tubes.
> > I had purchased the 6146B's from RF parts last year. So they used to
> > have them.
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > I asked about the 6146Bs, when I called RF Parts, and they told
> me that
> > > they don't have them in stock anymore.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@> wrote:
> > > >
> > > > I have purchased GE 6146B tubes from RF Parts.

> > > >
> > > > http://www.rfparts.com/index.html
> > > >
> > > > Bob N3DOK
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

7637. Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 03:22:54 UTC
From: Gordon
Topic: 7629 Message: 7637

Thanks Dennis,
I will get into it and trouble shoot it tomorrow.
I appreciate All your help on this. I figured it was an Oscillator
problem since the VOX was acting up in CW mode also.
Right now I am playing with an almost brand New TS-850S with ALL the
filters that I aquired today. Wow, What a Nice Rig !!
It will take me a couple of days to figure out all the controls on
this thing.
I'll keep you posted on the 820 progress.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
<windled@...> wrote:
>
> Gordon;
> The output of the Sidetone Osc on the FIX-VOX board also
feeds the VOX Amp so what it tells us is that the Sidetone Osc isn't
functioning therefore no Sidetone Audio and or VOX operation. I would
clean the mode switch (pay most attention to the CW tab), the key jack
and the connector pins on the FX3 connector to the FIX-VOX board. The
key down should start up the Sidetone Osc, so either you have a
connection problem in the key path that enables the Sidetone Osc or
something in the Osc circuit is defective preventing it from oscilating.
>
> D.Windle
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 17, 2006 10:09 PM
> Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
>
>
> Thanks for the tips Dennis, Here is something else I noticed. I can
> adjust the Vox to activate during SSB operation,and it works great,
> But It will NOT activate during CW operation , no matter how high I
> turn up the gain. Is that telling us something ?? I'm sort of LOST in
> chasing this Sidetone down!! Received Audio works fine... just NO side
> tone. VR3 seems to check out ok with an ohm meter.
>
> Thanks,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"

> <windled@> wrote:
> >
> > Gordon;
> > Q12 on the Fix-Vox unit is the Sidetone Oscillator and
> it's output is fed to VR3 on the AF-AVR unit where you adjust the
> Sidetone input level to the AF-Amp TA7201P (same input as received
> audio, so if that is working the Sidetone Osc signal is either missing
> or being lost across a bad connection between the two boards or VR3 is
> corroded and you cannot tap enough signal off of it to drive the
AF-Amp.
> >
> > D.Windle
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, May 17, 2006 5:55 PM
> > Subject: [TS-520_820_530_830] Side Tone Circuit in TS-820S
> >
> >
> > I have my 820 working pretty darn good now. Other then the Speech
> > processor, everything is working PERFECT, or so I thought. I
went to
> > use it on CW today and I get NO sound from the Sidetone. I
checked VR3
> > on the AF-AVR unit and it appears to check good. When I key
the rig,
> > All I get is a clicking from the speaker.. No Sidetone. Does the
> > Sidetone come from the FIX-VOX unit or does it come from the
AF- AVR
> > unit ? I see in the schematic a circuit labeled ST from the
FIX-VOX to
> > the AF_AVF unit.
> > Any hints?
> >
> > 73,
> > Gordon
> >
> >
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
>

> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.

> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
>

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7638. Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 03:29:51 UTC
From: Ellen R
Topic: 7620 Message: 7638

Probably, but I didn't really feel like spending time looking for them. The old set of Phillips that were in my TS-820 (yes it really is the early analog dial version), were pretty much toast (I couldn't get much more than 30 or 40 watts out of them on 20m). I have no complaints about the new tubes (fter all, don't forget, I also do a fair amount of QRP operating). I've received good reports on my CW & SSB transmit audio. So I can live with it. Besides, maybe all it needs is a little tweaking (when I find the time), to bring it up to 100 watts, I don't know.

73,
Ellen - AF9J
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> Are there No other sources for 6146B's ??
> Someone MUST have them out there. Glad I have a spare (Matched)
pair
> on the Shelf!!
>
> 73,
> Gorodn
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Gordon,
> >
> > I got my 6146Ws from RF parts about a month ago (I was sick for a
for
> > a few weeks, so I took me a while to get things done with the
rig).
> > I asked them on the phone how much the 6146Bs they had listed,
> > as "Call for Price", were going for, and they told me that the
> > 6146Bs, were no longer available from them.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@...m, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Ellen,
> > > My little TS-820S came with the Original Tubes # S2001A. I
get
> > 125
> > > watts output to the Antenna with these tubes.

> > > I had purchased the 6146B's from RF parts last year. So they
used to
> > > have them.
> > >
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > I asked about the 6146Bs, when I called RF Parts, and they
told
> > me that
> > > > they don't have them in stock anymore.
> > > >
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@>
wrote:
> > > > >
> > > > > I have purchased GE 6146B tubes from RF Parts.
> > > > >
> > > > > http://www.rfparts.com/index.html
> > > > >
> > > > > Bob N3DOK
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > > >
> > >
> >
>

7639. 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 11:00:46 UTC
From: george dumond
Topic: 6191 Message: 7639

HI ELLEN:
Surplus Sales Of Nebraska have the 6146B tubes.
I think the price is $45.00 each.
www.surplussales.com/Tubes-Soc-Acc/TubeSpecials.html
That should get u there on the web.
George K0GWD

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7640. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 11:32:27 UTC
From: Ellen R
Topic: 6191 Message: 7640

Hi Goerge,

Thanks for the info. As it is though, I think I'll stick with my 6146Ws for now. I have major car repairs (to the tune of several hundred dollars), coming up in the future (it's an emissions control problem I found out about on Tuesday), and money is still sort of tight for me, since I'm still paying off bills incurred during the hard times I ahd a few years ago. $90 for a set of 6146Bs - I figured as much, since the Mil-spec set of 6146Ws I got, cost me $60. I guess I should have bought the set of 6146Bs I was offered by one of the group members, for $65.

I ahve a feeling that in years to come, 6146Bs are going to become as hard to find,and expensive as 6JS6Cs are becoming for Yaesu FT-101s.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, george dumond <dums2@...>
wrote:
>
> HI ELLEN:
> Surplus Sales Of Nebraska have the 6146B tubes.
> I think the price is $45.00 each.
> www.surplussales.com/Tubes-Soc-Acc/TubeSpecials.html
> That should get u there on the web.
> George K0GWD
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7641. Re: [TS-520_820_530_830] Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 13:17:08 UTC
From: Stephen Goldberg
Topic: 7620 Message: 7641

6146Ws manufactured after 1965 are equivalent to 6146Bs. Been running Ws in my 530 and FT-901DM for years with no problems.

Steve W4IMF

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 17, 2006 11:19 PM
Subject: [TS-520_820_530_830] Re: Finding 6146Bs

Hi Ellen,
Are there No other sources for 6146B's ??
Someone MUST have them out there. Glad I have a spare (Matched) pair on the Shelf!!

73,
Gorodn

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.6.0/341 - Release Date: 5/16/06

7642. TS-820 DG1 cover

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 13:19:18 UTC
From: w1ioo
Topic: 7642 Message: 7642

Hi all. Just finished restoring a TS-820. I now realize it is missing
the DG-1 cover. Would anyone has one to sell from a parted out 820
please email me direct.
W1IOO@...
Thank you
Wally

7643. Re: Finding 6146Bs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 14:34:31 UTC
From: Ellen R
Topic: 7620 Message: 7643

Hi Steve,

Thanks for the info. Hmmmmmmm, I get plenty of drive from my 12BY7A. That means something else might be wrong. Does anybody have any ideas why my power might be down (my TS-820 is running from 70-90W [depending on the band], instead of the more usual 100-125W)?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg" <w2imf@...> wrote:
>
> 6146Ws manufactured after 1965 are equivalent to 6146Bs. Been running Ws in
> my 530 and FT-901DM for years with no problems.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, May 17, 2006 11:19 PM
> Subject: [TS-520_820_530_830] Re: Finding 6146Bs
>
>
> Hi Ellen,
> Are there No other sources for 6146B's ??
> Someone MUST have them out there. Glad I have a spare (Matched) pair
> on the Shelf!!
>
> 73,
> Gorodn
>
>
>
>
> --
> Certified Virus Free.
> Checked by AVG Free Edition.
> Version: 7.1.392 / Virus Database: 268.6.0/341 - Release Date: 5/16/06
>

7644. Re: Finding 6146Bs - a clarification on my problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 15:08:40 UTC
From: Ellen R
Topic: 7620 Message: 7644

OK, it looks like I have another issue to take care of. From the information Steve gave, it looks like I shouldn't have a power output issue, because my new finals are 6146Ws, instead of 6146Bs.

I have a matched set of finals, and I was able to decently neutralize them. I get plenty of drive from the 12BY7A driver tube. But, I have 3 issues:

1. Power is down (I'm only getting about 70-90W output power instead of the more common 100 plus watts).
2. I don't get much of a dip in plate current, during tune up, when you dip the plate current.
3. On 40m, I run out of adjustment in the load control (it's maxed out in the counterclockwise direction), when maxing RF output, during tuneup.

All of the above issues occur, when tuning up into a dummy load. Does anybody have any ideas as to what could be causing these issues. Don't get me wrong, I'm getting decent transmit reports on the air. It's just that I have these 3 little niggling issues. If I have to live with them, I will. But if I can do so, I'd sure like to take care of them.

73,
Ellen - AF9J

--- In TS-520_820_530_830@...m, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Steve,
>
> Thanks for the info. Hmmmmmmm, I get plenty of drive from my
> 12BY7A. That means something else might be wrong. Does anybody
have
> any ideas why my power might be down (my TS-820 is running from 70-
> 90W [depending on the band], instead of the more usual 100-125W)?
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
> <w2imf@> wrote:
> >
> > 6146Ws manufactured after 1965 are equivalent to 6146Bs. Been
> running Ws in
> > my 530 and FT-901DM for years with no problems.
> >

> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: "Gordon" <n6wk@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, May 17, 2006 11:19 PM
> > Subject: [TS-520_820_530_830] Re: Finding 6146Bs
> >
> >
> > Hi Ellen,
> > Are there No other sources for 6146B's ??
> > Someone MUST have them out there. Glad I have a spare (Matched)
> pair
> > on the Shelf!!
> >
> > 73,
> > Gorodn
> >
> >
> >
> >
> > --
> > Certified Virus Free.
> > Checked by AVG Free Edition.
> > Version: 7.1.392 / Virus Database: 268.6.0/341 - Release Date:
> 5/16/06
> >
>

7647. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 16:58:37 UTC
From: crousseau@alltel.net
Topic: 6191 Message: 7647

> Hi all, I work at Surplus Sales. I've been silent on the tube issue because I didn't want to be perceived as being biased. But I can't let this go by without correction. We do indeed currently sell 6146W's by GE manufactured in the 1980's. They are currently $17.00 each, or $39.00 for a matched pair. Hope this clarifies the "price" issue. 73s, Calvin WOØL :)
> From: "Ellen R" <ellenjoanne2003@...>
> Date: 2006/05/18 Thu AM 06:32:27 CDT
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: 6146B Tubes
>
>

[Non-text portions of this message have been removed]

7648. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 17:59:06 UTC
From: Ellen R
Topic: 6191 Message: 7648

Hi Calvin,

Thanks for info. I've decided to stick with the 6146Ws I bought last month. I guess, the issue is, do you still have 6146Bs (I think other group members might like to know). I'm getting the impression that the "B" version of this tube is starting to become a bit scarce.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, <crousseau@...> wrote:
>
>
> > Hi all, I work at Surplus Sales. I've been silent on the tube issue because I didn't want to be perceived as being biased. But I can't let this go by without correction. We do indeed currently sell 6146W's by GE manufactured in the 1980's. They are currently $17.00 each, or $39.00 for a matched pair. Hope this clarifies the "price" issue. 73s, Calvin WOØL :)
> > From: "Ellen R" <ellenjoanne2003@...>
> > Date: 2006/05/18 Thu AM 06:32:27 CDT
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

7650. Re: N9WB at Hamvention

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 19:36:17 UTC
From: Ellen R
Topic: 7649 Message: 7650

Have fun at Dayton, Walt.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> I am going to be away from my computer at the Dayton Hamvention until
> Monday. If I fail to respond or if my mail box gets full, please
> understand.
>
> Vy 73, Walt N9WB
>

7651. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 19:14:52 UTC
From: DW Holtman
Topic: 6191 Message: 7651

Hello,

I'm new to this group. The link below has a lot of info on the 6146
family of tubes. If it has been listed before, sorry.

http://home.comcast.net/~k9sth/The_6146_Family_of_Tubes_1.htm

73's
DW Holtman
WB7SSN

>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

7652. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 20:16:57 UTC
From: Ellen R
Topic: 6191 Message: 7652

Hi DW,

Thanks for the info on 6146 tubes. I printed out a copy of it for my records.

Here's an interesting little factoid, that not many people know about - not only were 6146s used for RF work, they were also used in one of the most famous bass guitar amplifiers of all time. The Ampeg SVT. For the first year or so of production of this amp (1969), ampeg used, 6, 6146 tubes in it. This gave it 300 watts of power. In 1970, they switched to using the more common 6550 (6 of them) tube, which also provided 300 watts of power.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, DW Holtman <future212@...> wrote:
>
> Hello,
>
> I'm new to this group. The link below has a lot of info on the 6146
> family of tubes. If it has been listed before, sorry.
>
> http://home.comcast.net/~k9sth/The_6146_Family_of_Tubes_1.htm
>
> 73's
> DW Holtman
> WB7SSN
>
> >
> >
> >
> >
> >
> >
> > SPONSORED LINKS
> > Ham radio
> > <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > Craft hobby
> > <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > Hobby and craft supply

> > <http://groups.yahoo.com/gads?
t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> >
> >
> >
> > ---

> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
web.
> >
> > * To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> > ---

> >
>

7653. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 20:26:29 UTC
From: Chris Howard
Topic: 6191 Message: 7653

Is it possible to rewire the filaments in such a way
as to use the 12 volt filament versions of the 6146?

We had a guy at a local hamfest selling the 12 volters
for about a buck each.

Chris
w0ep

On Thu, 2006-05-18 at 20:16 +0000, Ellen R wrote:
> Hi DW,
>
> Thanks for the info on 6146 tubes. I printed out a copy of it for my
> records.
>
> Here's an interesting little factoid, that not many people know
> about - not only were 6146s used for RF work, they were also used in
> one of the most famous bass guitar amplifiers of all time. The Ampeg
> SVT. For the first year or so of production of this amp (1969),
> ampeg used, 6, 6146 tubes in it. This gave it 300 watts of power.
> In 1970, they switched to using the more common 6550 (6 of them)
> tube, which also provided 300 watts of power.
>
> 73,
> Ellen - AF9J
>
>
> --- In TS-520_820_530_830@yahoogroups.com, DW Holtman <future212@...>
> wrote:
> >
> > Hello,
> >
> > I'm new to this group. The link below has a lot of info on the 6146
> > family of tubes. If it has been listed before, sorry.
> >
> > http://home.comcast.net/~k9sth/The_6146_Family_of_Tubes_1.htm
> >
> > 73's
> > DW Holtman
> > WB7SSN
> >
> > >
> > > >
> > > >
> > > >
> > > >
> > > >

> > >
> > > SPONSORED LINKS
> > > Ham radio
> > > <http://groups.yahoo.com/gads?
> t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply
> &c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> > > Craft hobby
> > > <http://groups.yahoo.com/gads?
> t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supp
> ly&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> > > Hobby and craft supply
> > > <http://groups.yahoo.com/gads?
> t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and
> +craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > >
> > >
> > >
> > > ---
> ------
> > > YAHOO! GROUPS LINKS
> > >
> > > * Visit your group "TS-520_820_530_830
> > > <http://groups.yahoo.com/group/TS-520_820_530_830>" on the
> web.
> > >
> > > * To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > > <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?
> subject=Unsubscribe>
> > >
> > > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > > Service <http://docs.yahoo.com/info/terms/>.
> > >
> > >
> > > ---
> ------
> > >
> >
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>

7654. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 21:25:16 UTC
From: crousseau@alltel.net
Topic: 6191 Message: 7654

Yes we do still have 6146B's available singly or in matched pairs. You are correct in that they are getting very scarce and pricey. While we have a good supply of "W's", the "B's" are in very short supply. Not trying to drum up sales with scare tactics here, it's just the reality of the situation. BTW, I use the 6146W's in my 520SE and I'm perfectly happy with them.

>
> From: "Ellen R" <ellenjoanne2003@...>
> Date: 2006/05/18 Thu PM 12:59:06 CDT
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: 6146B Tubes
>
>

[Non-text portions of this message have been removed]

7655. Re: TS-830 Sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-18 23:27:24 UTC
From: pchapman9202003
Topic: 5888 Message: 7655

I have to chuckle a bit on this one relating Peter's comment to everyday SSB.....You are cruising the band looking for an easy contact, but the guy or gal calling CQ has one of those voices that takes more time than they give you to zero beat, and you are off a smidge. The other side being polite turns on RIT to listen to you, and since you did not have enough time to start with, you RIT the other side.

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> Looking at the options and considering the analog nature of this fine
> rig, I have to agree with Pierre and just use the RIT for the desired
> CW offset. Thanks and 73, Bruce K6ZB
>
> --- In TS-520_820_530_830@yahoogroups.com, Pierre Wells
> <lool5552002@> wrote:
> >
> > Why not just set the receive RIT off by 100 cycles and leave it
> there whenever doing CW. A semi permanent mark on the RIT knob would
> let you get back to the 100 cycles 'offset' anytime.
> > Peter VE2FAR

>

7656. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 00:33:31 UTC
From: Ellen R
Topic: 6191 Message: 7656

I'm happy with my 6146Ws too. I guess I'm just wondering why output power seems kind of low, and why I can't get a pronounced plate current dip, when I tune.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, <crousseau@...> wrote:
>
> Yes we do still have 6146B's available singly or in matched pairs. You are correct in that they are getting very scarce and pricey. While we have a good supply of "W's", the "B's" are in very short supply. Not trying to drum up sales with scare tactics here, it's just the reality of the situation. BTW, I use the 6146W's in my 520SE and I'm perfectly happy with them.
> >
> > From: "Ellen R" <ellenjoanne2003@...>
> > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

7657. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 01:31:36 UTC
From: Bill Richarz
Topic: 6191 Message: 7657

Have you tried using a dummy load to get a
dip and and then adjust in RF meter position
for maximum smoke or appox. 100 watts?

73 de Bill, N4DH

--- Ellen R <ellenjoanne2003@...> wrote:

> I'm happy with my 6146Ws too. I guess I'm just
> wondering why output
> power seems kind of low, and why I can't get a
> pronounced plate
> current dip, when I tune.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com,
> <crousseau@...> wrote:
> >
> > Yes we do still have 6146B's available singly or
> in matched pairs.
> You are correct in that they are getting very scarce
> and pricey.
> While we have a good supply of "W's", the "B's" are
> in very short
> supply. Not trying to drum up sales with scare
> tactics here, it's
> just the reality of the situation. BTW, I use the
> 6146W's in my
> 520SE and I'm perfectly happy with them.
> > >
> > > From: "Ellen R" <ellenjoanne2003@...>
> > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been
> removed]
> >
>
>
>

>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7658. 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 02:29:40 UTC
From: Kevin Keyes
Topic: 7658 Message: 7658

When a tube vendor mentions a matched pair of 6146B, what does that mean? Also, how do Chinese 6146B tubes compare to those made in USA?

Thanks and 73,
Kevin, KI4KFS

7659. TS-520S No receive, oscillation when band is switched

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 03:13:56 UTC
From: markswoodcrafts
Topic: 7659 Message: 7659

My 520s died last night! Changing bands, I lose signal and instead get a ragged oscillation at various frequencies. At first, switching to the calibrator and back solved the problem. Then, shutting off and then back on would cause the rig to receive normal. Now, the receiver is gone and just get the oscillation. No signals at all on receive.

I checked the AVR board and the -6v, 9v and 14v levels are fine. I think the damage is on the IF board.

Anybody have any ideas? Plus, does anyone have a LEGIBLE schematic diagram with voltage levels? I have one from a website, but the voltage levels on the scan are way too hard to read.

Help and thanks!

73 Mark WBØSYV

7660. low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 03:34:19 UTC
From: george dumond
Topic: 7394 Message: 7660

Hi Ellen,
I got to thinking about your output being not quite
where it should be,have u checked ur plate voltage?
Perhaps your voltage doubler is not quite up to par.
also do u have 60 ma of plate current. You have
probably already checked all this.Any way just thought
i would mention it.
George K0GWD

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7661. TS-900 info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 09:48:20 UTC
From: mw1fgq
Topic: 7661 Message: 7661

Hi
I know this is slightly off topic but I wonder if anyone can help, I rescued a TS-900 a while back but the PSU had long gone, does anyone have information about the supplies and supply connector pinouts or even a complete circuit diagram? I'd very much like to get this set going again even if only on receive or for transverter service to start with, there's very little information available on the web for the set so any links or pointers would help. A bit of history would be nice too - when were they made and what came before/after them? I suspect that there aren't many TS-900s here in the UK.
Thanks
John
MW1FGQ

7662. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 11:39:38 UTC
From: Joan de vk5kyo
Topic: 6191 Message: 7662

Hi Chris

The answer to your question is, YES, most certainly. The heater supply is in fact 12 volts and the original wiring puts the 6146's heaters in series. Just remove the series link, provide a earth strap for the front tube and run a new wire to supply 12 volts to the most rear tube. About 1 hour job by the time you take covers of and the circuit board and work out what your doing.
I have done this with my TS-520 and also a TS-830. They work great.
Great value for money and probably a well kept secret.
One warning though, is to put a warning on the PA cover that the heaters are set for 12Volts. You dont want to go back there many years laters with a nice new pair of 6146's and watch the sun go up for a few seconds, followed by a very quick sunset and tears. Remembering then is too late.

Here is a little extract from Glen.

The 6146 Family of Tubes

by

Glen E. Zook, K9STH

The 12-volt equivalent of the 6146 is the 6883, the equivalent of the 6146A is the 6883A, and the 6146B is the 6883B. Now, there are the tubes that were manufactured for FM commercial service. These series go as follows: 6883, 6883A / 8032, 6883B / 8032A / 8552. Again most of these are "cross branded" with all of the tube numbers that are equivalent.

Next time Chris, or anyone else for that matter, if you can't get hold of 6146's, don't hesitate to use the alternative at a fraction of the cost.

Joan VK5KYO

Chris Howard wrote:

>
>
> Is it possible to rewire the filaments in such a way
> as to use the 12 volt filament versions of the 6146?
>
> We had a guy at a local hamfest selling the 12 volters
> for about a buck each.
>
> Chris
> w0ep

>
>

7663. Re: [TS-520_820_530_830] 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 12:31:04 UTC
From: Stephen Goldberg
Topic: 7658 Message: 7663

Stay away from Chinese 6146Bs. The first time I fired up with a pair they shorted out.

Steve W4IMF

----- Original Message -----
From: "Kevin Keyes" <kskeye@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 18, 2006 10:29 PM
Subject: [TS-520_820_530_830] 6146B Matched Pair - What Does It Mean

> When a tube vendor mentions a matched pair of 6146B, what does that
> mean? Also, how do Chinese 6146B tubes compare to those made in USA?
>
> Thanks and 73,
> Kevin, KI4KFS
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.6.0/342 - Release Date: 5/17/06

7664. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 14:24:39 UTC
From: Ellen R
Topic: 6191 Message: 7664

Hi Bill,

Yes I do. This is actually my 5th tube or hybrid rig I've owned in my 28 years as a ham. I've always tuned up into a dummy load first. The strange thing is that I don't get much of a plate current dip. But this may be normal. My memory may be failing me on this. But I think even when I used the TS-830S at W9YT (the Univ. of WI ham club's station) in '86 & 87, there wasn't much Plate Currnt dip on it. I'm just not 100% sure on this recollection.

It's possible that I may be used to seeing the major plate current dip I used to get out of the Drake T4XC I used to have years ago (or the FT-101B I had in college, which also had a pretty noticeable plate dip). I'm gonna recheck the dummy load output again today (I'm off of work today, and for a change, I'm not in a hurry to get things tuned up for a sked). I'm pretty sure that I'm getting 70-90W output.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...> wrote:
>
> Have you tried using a dummy load to get a
> dip and and then adjust in RF meter position
> for maximum smoke or appox. 100 watts?
>
> 73 de Bill, N4DH
>
> --- Ellen R <ellenjoanne2003@...> wrote:
>
> > I'm happy with my 6146Ws too. I guess I'm just
> > wondering why output
> > power seems kind of low, and why I can't get a
> > pronounced plate
> > current dip, when I tune.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
> > <crousseau@> wrote:
> > >
> > > Yes we do still have 6146B's available singly or
> > in matched pairs.
> > You are correct in that they are getting very scarce

> > and pricey.
> > While we have a good supply of "W's", the "B's" are
> > in very short
> > supply. Not trying to drum up sales with scare
> > tactics here, it's
> > just the reality of the situation. BTW, I use the
> > 6146W's in my
> > 520SE and I'm perfectly happy with them.
> > > >
> > > > From: "Ellen R" <ellenjoanne2003@>
> > > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > > > >
> > > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been
> > removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7665. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 14:57:36 UTC
From: Ellen R
Topic: 7658 Message: 7665

Hi Kevin,

I think I can answer both quesions.

1. Chinese tubes - like Steve, W4IMF said. Avoid them like the plague. Don't amke the mistoaek I did, and go to a outlet like AES, or HRO and have them sell you a set, without opening the boxes first. I bought a set of Pentas from AES a month and a half ago (hoping I would ahve a qucik fix for a probelm I was having at the time), opened the box, and discovered they were chinese. I had already heard nasty things about chinese tubes, but I tried them anyway. Guess what, they flashed/arced over as soon as I turned on the filament heaters. As a result, I ended up having to fix even more, on my TS-820. MY theory on the reason for the chinese tubes being so nasty is this: Ifg you look at most beam powere tubes like the 6146, you'll see a silvered area on the glass envelope. This is where excess metal ions are captured & sent to by the getter/collectror ring in the tube (it helps keep the vacuum clean, you don't want a dirty/hard vacuum in a tube), Chinese 6146s don't have a getter/collector ring, sand as a result they run a dirty vacuum. This may not be a problem in a 6146 application that's using lower voltage, but Kenwood hybrids run 6146s kind of hard (must applications don't used them over 750V, Kenwood hybrids run them at 800V), so hte chance of arcing/flashing over is greater.

The moral of the story - avoid chinese 6146s like the plague. I'm stuck with a set of them, that I can't even use. Get 6146s from places like RF Parts, or Nebraska Surplus, who you know, won't sell you a set of chinese tubes.

2. Matched tubes - Becuse tubes are to a large extent, assembled by hand, there is some variation in their electrical properties, with regards to voltage, current (and to a smaller extent) voltage amplification characteristics. Since most final amplification circuits (be they in our Kenwoods, or even the tube guitar amps I used to use before I got tired of lugging them around) are of the push-pull type (in other words one half of the siganl [say the posetive half] is amplified by one tube, and the other half [say the negative half] is amplified by the other tube, .his means that the above mentioned variations will cause each tube of an amplifying pair, to not apmplify the same amount of the signal.

This causes all sorts of neat things to happen, since the pair (for lack of a better term) "fights" to remove this imbalance. You can get parasitic oscillation, distortion on the signal, burned out tubes, spurious emissions, etc. When you neutralize the amplifier, you're adjusting using the final amp circuit (in the case of my TS-820, with a

variable capacitor), to electrically balance out the tubes, and avoid the messes I just mentioned. Another thing that helps avoid this mess (and makes neutralization easier to do) is to use a matched set of tubes. A matched set of tubes, is set (or pair for that matter), that have put together, because they have the same electrical characteristics (sorting is done at the time of manufacturing, with a tube tester). You don't need to use a matched set of tubes, but in my opinion, it'
s easier to neutralize your finals, if you are using a matched set.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Keyes" <kskeye@...> wrote:
>
> When a tube vendor mentions a matched pair of 6146B, what does that
> mean? Also, how do Chinese 6146B tubes compare to those made in USA?
>
> Thanks and 73,
> Kevin, KI4KFS
>

7666. Re: low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 21:49:53 UTC
From: Ellen R
Topic: 7394 Message: 7666

Hi George,

I've checked the plate idle current, it's at 60mA. But, maybe I should check the plate voltage, I only gave it a cursory check a few weeks ago. Maybe it is low. It might have been only 780V or so, with the bad, old tubes in. Hmmm, maybe I should recheck it. Thanks for the suggestion.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, george dumond <dums2@...> wrote:
>
> Hi Ellen,
> I got to thinking about your output being not quite
> where it should be,have u checked ur plate voltage?
> Perhaps your voltage doubler is not quite up to par.
> also do u have 60 ma of plate current. You have
> probably already checked all this.Any way just thought
> i would mention it.
> George K0GWD
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7667. Re: low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-19 23:11:08 UTC
From: Gordon
Topic: 7394 Message: 7667

Hi Ellen,
My plate voltage at idle is Almost 900 Volts on my TS-820S. Hope
that helps you.
I have been busy playing with a NEW toy.
A friend shipped me (Unannounced) a very Nice TS-850S. When I asked
him what it was here on my doorstep for, He replied.. " Happy Birthday
,It's Yours".

Wow, I'm like a kid in a candy store with all of these rigs here now.
This 850 sure is Nice! I need to get back to work on my 820 and fix
the last 2 known problems. The side tone Oscillator and the Pre Amp
circuit. Then I will probably sell it and my "MINT" TS-830S
73,
Gordon

!--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi George,
>
> I've checked the plate idle current, it's at 60mA. But, maybe I
> should check the plate voltage, I only gave it a cursory check a few
> weeks ago. Maybe it is low. It might have been only 780V or so, with
> the bad, old tubes in. Hmmm, maybe I should recheck it. Thanks for
> the suggestion.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, george dumond <dums2@>
> wrote:
> >
> > Hi Ellen,
> > I got to thinking about your output being not quite
> > where it should be,have u checked ur plate voltage?
> > Perhaps your voltage doubler is not quite up to par.
> > also do u have 60 ma of plate current. You have
> > probably already checked all this.Any way just thought
> > i would mention it.
> > George K0GWD
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com

> >
>

7668. Re: low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 01:22:00 UTC
From: Ellen R
Topic: 7394 Message: 7668

Hi Gordon,

Thanks for the info. On further examination, I may not have a problem. Rob, WB7AVF (who belongs to this group, and the SKCC group that Gordon and I also belng to), and I just finished up a QSO a few minutes ago (It was rough going on 40m CW, and almost as rough going on 20m CW, after we QSYed - lots of QSB). After we were done, I checked output power into my dummy load. Well, it loks like my MFJ 300W aircolled dummy load isn't completely non-reactive. SWR is about 1.2 to 1.3 to 1. So , I used the basic output power formula we all had to know to pass the tests (output power = forward power + reflected power). Guess what, the rig was running about 95-100W out (The meter on the T-match isn't the greatest - it's just a cross-needle power meter, and they're not known for being the world's most accurate meters). I will check the plate voltages again (I think they were running about 900V, when I checked them with the old, bad tubes), but it's looking like my "problem" is a non-issue.

73,
Ellen - AF9J

P.S. - so you're going to get rid of all of your hybrid Kenwoods?

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> My plate voltage at idle is Almost 900 Volts on my TS-820S. Hope
> that helps you.
> I have been busy playing with a NEW toy.
> A friend shipped me (Unannounced) a very Nice TS-850S. When I
asked
> him what it was here on my doorstep for, He replied.. " Happy
Birthday
> ,It's Yours".
>
> Wow, I'm like a kid in a candy store with all of these rigs here
now.
> This 850 sure is Nice! I need to get back to work on my 820 and
fix
> the last 2 known problems. The side tone Oscillator and the Pre Amp
> circuit. Then I will probably sell it and my "MINT" TS-830S
> 73,
> Gordon
>
> !--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:

> >
> > Hi George,
> >
> > I've checked the plate idle current, it's at 60mA. But, maybe I
> > should check the plate voltage, I only gave it a cursory check a
few
> > weeks ago. Maybe it is low. It might have been only 780V or so,
with
> > the bad, old tubes in. Hmmm, maybe I should recheck it. Thanks
for
> > the suggestion.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, george dumond <dums2@>
> > wrote:
> > >
> > > Hi Ellen,
> > > I got to thinking about your output being not quite
> > > where it should be,have u checked ur plate voltage?
> > > Perhaps your voltage doubler is not quite up to par.
> > > also do u have 60 ma of plate current. You have
> > > probably already checked all this.Any way just thought
> > > i would mention it.
> > > George K0GWD
> > >
> > > _____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection around
> > > http://mail.yahoo.com
> > >
> >
>

7669. Re: 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 01:31:20 UTC
From: pchapman9202003
Topic: 7569 Message: 7669

Good observation. By the way the latest wireless mouses for your PC are "CB" mice due, for one reason, to the problems with wireless home networks, 2.4 meg phones, and other toys causing computers to lose the network. I had to change all of my phones out for 5.8 to get rid of the problem, as well as the old 2.4 mouse for a CB Mouse.

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> Thanks for that Walt. Meanwhile, I've looked up some details about CB
> radio usage. I have a friend (don't we all) who exceeds the legal
> limits so I dug around to give him some tips (and warnings!)
>
> Some interesting points I've found about CB radio usage*:
>
> "You must use an FCC certified transmitter. No modifications are
> allowed to your equipment. Equipment output power is limited to 4
> watts for AM transmitters and 12 watts PEP (peak envelope power) for
> single sideband (SSB) transmitters.
>
> "There are no restrictions on size or type of antennas, except the
> antenna must not be more than 20 feet above the highest point of the
> structure it is mounted to and may not be more than 60 feet above the
> ground.
>
> "It should be noted that under Part 95, Subpart D of the FCC rules it
> is illegal to engage in, or attempt to engage in communications with
> any station more than 250 kilometers (155.3 miles) from your location.
>
> "There is a gap between Channel 22 and Channel 23 (which was later
> filled by Channels 24 and 25) for historical reasons. Before CB was in
> existence, there was an Amateur 11-meter band from 26.96 to 27.23 MHz,
> and a frequency for radio-controlled devices at 27.255 MHz. The
> 11-meter band became CB Channels 1 to 22, and the radio control
> frequency was shared with Channel 23."
>
> SOURCE: http://en.wikipedia.org/wiki/Citizens'_band_radio
>
> * The Citizens' Band radio services are described in part 95 of the

> Federal Communications Commission.
>
> Makes one really appreciate the advantages of getting a ham radio
license!
>
> f
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > CB rigs must be type approved so Amateur equipment is not legal on
> CB even
> > if it meets the power requirements.
> > Vy 73, Walt N9WB
>

7670. Re: [TS-520_820_530_830] Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 02:52:21 UTC
From: carboyhat@juno.com
Topic: 7658 Message: 7670

I thought the final amp tubes were in parallel and technically did not need to be a matched pair. Seems like this question of the necessity of a matched pair in a Kenwood transceiver came up recently. Can't find it in my archives.

Bob, AA4AI

> 2. Matched tubes - Becuse tubes are to a large extent, assembled by
> hand, there is some variation in their electrical properties, with
> regards to voltage, current (and to a smaller extent) voltage
> amplification characteristics. Since most final amplification
> circuits
> (be they in our Kenwoods, or even the tube guitar amps I used to use
>
> before I got tired of lugging them around) are of the push-pull type
>

7671. Re: [TS-520_820_530_830] Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 03:47:41 UTC
From: bob54quam@cs.com
Topic: 7658 Message: 7671

The finals in the Kenwood hybrid rigs are in parallel. When the bias is set
at 60 milliamps, it is assumed that each tube is dawing about 30 millliamps.
This places each tube on the linear part of its amplification curve.
They should be matched because otherwise, one of
the two would draw more current than the other, possibly pushing it into the
non-linear part of its amplification curve, and shortening it's life as well as
causing distortion.
Bob
KI0KM

[Non-text portions of this message have been removed]

7672. Re: [TS-520_820_530_830] Re: 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 04:36:05 UTC
From: Allan
Topic: 7569 Message: 7672

Question, 2.4 meg do you mean 2.4 GHz.

pchapman9202003 <p_chap@...> wrote: Good observation. By the way the latest wireless mouses for your PC
are "CB" mice due, for one reason, to the problems with wireless home networks, 2.4 meg phones, and other toys causing computers to lose the network. I had to change all of my phones out for 5.8 to get rid of the problem, as well as the old 2.4 mouse for a CB Mouse.

--- In TS-520_820_530_830@yahoogroups.com, "Ravenswood" <evokefrank@...> wrote:
>
> Thanks for that Walt. Meanwhile, I've looked up some details about CB
> radio usage. I have a friend (don't we all) who exceeds the legal
> limits so I dug around to give him some tips (and warnings!)
>
> Some interesting points I've found about CB radio usage*:
>
> "You must use an FCC certified transmitter. No modifications are
> allowed to your equipment. Equipment output power is limited to 4
> watts for AM transmitters and 12 watts PEP (peak envelope power) for
> single sideband (SSB) transmitters.
>
> "There are no restrictions on size or type of antennas, except the
> antenna must not be more than 20 feet above the highest point of the
> structure it is mounted to and may not be more than 60 feet above the
> ground.
>
> "It should be noted that under Part 95, Subpart D of the FCC rules it
> is illegal to engage in, or attempt to engage in communications with
> any station more than 250 kilometers (155.3 miles) from your location.
>
> "There is a gap between Channel 22 and Channel 23 (which was later
> filled by Channels 24 and 25) for historical reasons. Before CB was in
> existence, there was an Amateur 11-meter band from 26.96 to 27.23 MHz,
> and a frequency for radio-controlled devices at 27.255 MHz. The
> 11-meter band became CB Channels 1 to 22, and the radio control
> frequency was shared with Channel 23."
>

> SOURCE: http://en.wikipedia.org/wiki/Citizens'_band_radio
>
> * The Citizens' Band radio services are described in part 95 of the
> Federal Communications Commission.
>
> Makes one really appreciate the advantages of getting a ham radio
license!
>
> f
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > CB rigs must be type approved so Amateur equipment is not legal on
> CB even
> > if it meets the power requirements.
> > Vy 73, Walt N9WB
>

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Signed: Allan kb5doh

"Do On To Others as You would Have them Do On To You"
(Join The Hobby of Amateur Radio and Have Fun and Meet People Around The World)
Link http://groups.yahoo.com/group/Siltronix1011Bunch/
Link http://pages.prodigy.net/a1mc
Link www.marykay.com/rebekahs

[Non-text portions of this message have been removed]

7673. Re: TS-520S No receive, oscillation when band is switched

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 05:10:13 UTC
From: Irv
Topic: 7659 Message: 7673

--- In TS-520_820_530_830@yahoogroups.com, "markswoodcrafts"
<markswoodcrafts@...> wrote:
>
> My 520s died last night!

The relay (not the antenna one but RL1 under the VOX board)
is a frequent source of problems now that the units are
getting older. It is difficult to access since you have
to lift the VOX board, but it is not to difficult to
clean.

One thing you might try is when the unit fails to
go into receive, lift the front of the unit about an
inch off the bench and drop it back down. It sounds
like a terrible thing to do, but if it is one of the
relay contacts, the receive will often be restored.
The rig should be easily able to handle the 'bump'.

If you don't have the courage to drop it, then try a
good thump with a closed fist on the side of the unit.

I run a 520S as well and only recently had to clean the
relay.

While you have it open, take a minute to tighten down
the screws holding the boards in place. Many of them
are grounds and a loose ground can also cause problems.

These rigs are aging, but in my opinion are so well
built it is unlikely that other than a dirty relay or
a gassy tube will kill it.

Irv VE6BP

7674. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 16:13:12 UTC
From: Ellen R
Topic: 7658 Message: 7674

No Bob, you don't need a matched pair. You can neutralize unmatched tubes. But the neutralization is easier to accomplish with a matched pair. In the worst case, if two 6146s are too far off from each other electrically, you might not be able to neutralize them, because the trimmer cap only has a limited adjustment range. Running them 6146s in parallel (in other words, Class A) - I guess it might be the case, but I was always under them impression that they ran Class AB. It's more efficient than Class A, and the tubes would run cooler too. Also tubes run in Class AB, can run more power, than tubes run in Class A (because they run cooler, they have higher power dissipation capabilites).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, carboyhat@... wrote:
>
> I thought the final amp tubes were in parallel and technically did
not
> need to be a matched pair. Seems like this question of the
necessity
> of a matched pair in a Kenwood transceiver came up recently. Can't
find
> it in my archives.
>
> Bob, AA4AI
> ---

> ------------------
> > 2. Matched tubes - Becuse tubes are to a large extent, assembled
by
> > hand, there is some variation in their electrical properties,
with
> > regards to voltage, current (and to a smaller extent) voltage
> > amplification characteristics. Since most final amplification
> > circuits
> > (be they in our Kenwoods, or even the tube guitar amps I used to
use
> >
> > before I got tired of lugging them around) are of the push-pull
type
> >
>

7675. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 16:16:07 UTC
From: Ellen R
Topic: 7658 Message: 7675

Hmmm, on second thought maybe you're right - it does run Class A.
after all, isn't it possible to run one of these hybrid rigs with
just one final in a pinch? That wouldn't necessarilhy be possible in
Class AB.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, carboyhat@... wrote:
>
> I thought the final amp tubes were in parallel and technically did
not
> need to be a matched pair. Seems like this question of the
necessity
> of a matched pair in a Kenwood transceiver came up recently. Can't
find
> it in my archives.
>
> Bob, AA4AI
> ----------

> ----------
> > 2. Matched tubes - Becuse tubes are to a large extent, assembled
by
> > hand, there is some variation in their electrical properties,
with
> > regards to voltage, current (and to a smaller extent) voltage
> > amplification characteristics. Since most final amplification
> > circuits
> > (be they in our Kenwoods, or even the tube guitar amps I used to
use
> >
> > before I got tired of lugging them around) are of the push-pull
type
> >
>

7676. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 16:18:04 UTC
From: Ellen R
Topic: 7658 Message: 7676

I stand corrected. It is Class A. Thanks for the info (and the 40m QSO) Bob.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> The finals in the Kenwood hybrid rigs are in parallel. When the bias is set
> at 60 milliamps, it is assumed that each tube is dawing about 30 millliamps.
> This places each tube on the linear part of its amplification curve.
> They should be matched because otherwise, one of
> the two would draw more current than the other, possibly pushing it into the
> non-linear part of its amplification curve, and shortening it's life as well as
> causing distortion.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7677. Re: TS-520S No receive, oscillation when band is switched

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 16:27:18 UTC
From: Ellen R
Topic: 7659 Message: 7677

I concur with Irv,

I used to ahve a set of Drake twins that would act up. Oftentimes
the T/R relay would go weird. It would stick, and give me S9+ noise
on receive. I remember operating in a CQ-160m CW contest when this
first happened. Since 160m can get pretty noisy, I thought nothing
of it, until I accidentally bumped into the R4B I was using. Like
magic, all of my noise went away. After having this "noisy receive"
situation happen a few more times (all of which were cured with a rap
to the side of my R4B), I began to realize that it occurred after
transmitting with my T4XC. A rap on the receiver (which had the T/R
relay), fixed the problem. Give it a try. It vever hurt my rigs,
when I did it.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Irv" <finkirv@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "markswoodcrafts"
> <markswoodcrafts@> wrote:
> >
> > My 520s died last night!
>
> The relay (not the antenna one but RL1 under the VOX board)
> is a frequent source of problems now that the units are
> getting older. It is difficult to access since you have
> to lift the VOX board, but it is not to difficult to
> clean.
>
> One thing you might try is when the unit fails to
> go into receive, lift the front of the unit about an
> inch off the bench and drop it back down. It sounds
> like a terrible thing to do, but if it is one of the
> relay contacts, the receive will often be restored.
> The rig should be easily able to handle the 'bump'.
>
> If you don't have the courage to drop it, then try a
> good thump with a closed fist on the side of the unit.
>
> I run a 520S as well and only recently had to clean the
> relay.
>
> While you have it open, take a minute to tighten down
> the screws holding the boards in place. Many of them
> are grounds and a loose ground can also cause problems.

>
> These rigs are aging, but in my opinion are so well
> built it is unlikely that other than a dirty relay or
> a gassy tube will kill it.
>
> Irv VE6BP
>

7678. Re: TS-520S No receive, oscillation when band is switched

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 16:32:02 UTC
From: markswoodcrafts
Topic: 7659 Message: 7678

Thanks!
Gave it a try, opened up and cleaned the contacts as well. No dice.
There is no receive signal at all, not even the 25khz calibrator, so I
believe the cause of the trouble may be within the IF board. I found
a service manual and am awaiting it to chase down voltage readings.

One other thing, is there anyone who is a good 520 repair person, and,
you don't have to sell off your entire station to aford them?

Thanks for the help

Mark WBØSYV

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I concur with Irv,
>
> I used to ahve a set of Drake twins that would act up. Oftentimes
> the T/R relay would go weird. It would stick, and give me S9+ noise
> on receive. I remember operating in a CQ-160m CW contest when this
> first happened. Since 160m can get pretty noisy, I thought nothing
> of it, until I accidentally bumped into the R4B I was using. Like
> magic, all of my noise went away. After having this "noisy receive"
> situation happen a few more times (all of which were cured with a rap
> to the side of my R4B), I began to realize that it occurred after
> transmitting with my T4XC. A rap on the receiver (which had the T/R
> relay), fixed the problem. Give it a try. It vever hurt my rigs,
> when I did it.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Irv" <finkirv@> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "markswoodcrafts"
> > <markswoodcrafts@> wrote:
> > >
> > > My 520s died last night!
> >
> > The relay (not the antenna one but RL1 under the VOX board)
> > is a frequent source of problems now that the units are
> > getting older. It is difficult to access since you have
> > to lift the VOX board, but it is not to difficult to
> > clean.
> >

> > One thing you might try is when the unit fails to
> > go into receive, lift the front of the unit about an
> > inch off the bench and drop it back down. It sounds
> > like a terrible thing to do, but if it is one of the
> > relay contacts, the receive will often be restored.
> > The rig should be easily able to handle the 'bump'.
> >
> > If you don't have the courage to drop it, then try a
> > good thump with a closed fist on the side of the unit.
> >
> > I run a 520S as well and only recently had to clean the
> > relay.
> >
> > While you have it open, take a minute to tighten down
> > the screws holding the boards in place. Many of them
> > are grounds and a loose ground can also cause problems.
> >
> > These rigs are aging, but in my opinion are so well
> > built it is unlikely that other than a dirty relay or
> > a gassy tube will kill it.
> >
> > Irv VE6BP
> >
>

7679. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 16:46:36 UTC
From: Graham
Topic: 7658 Message: 7679

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I stand corrected. It is Class A.

So has anyone here used a pair of 6293's in their box ?

I understand these are rated at 1Kw for pulse operation.

I ask as the 6883's are more expensive over here than 6146's

Graham M5AAV

7680. Re: [TS-520_820_530_830] Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 20:53:06 UTC
From: bob54quam@cs.com
Topic: 7658 Message: 7680

Ellen,
The finals in the Kenwood hybrids are run class AB1. The efficiency on SSB is then about 60-65%. In class A the efficiency would be much less. The Heathkit and Collins rigs using 6146s also ran class AB1. For parallel tubes, this gives the highest power output without distortion.
Bob
KI0KM

[Non-text portions of this message have been removed]

7681. Re: [TS-520_820_530_830] Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-20 21:22:32 UTC
From: bob54quam@cs.com
Topic: 7658 Message: 7681

To expound further, SSB amplifiers can be run AB1 because there is no carrier. Therefore, the drive can be set almost to the point that grid current will be drawn. For AM, or audio applications, the drive would need to be much lower to avoid driving the grid positive. This is why these efficient amplifiers can be run singly or in parallel in SSB use and not have to be run push-pull.
Thank you for the 40 meter contact, Ellen!
Bob
KI0KM

[Non-text portions of this message have been removed]

7682. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 01:49:40 UTC
From: Ellen R
Topic: 7658 Message: 7682

OK, then I guess I was right. Class AB1 is basically push-pull. Virtually all tube guitar amps are also run AB1. In other words, it's sort of a variation on Class B.

In Class B (pure push-pull), each tube (or for that matter, transistor) of the pair amplifies only 1/2 of the signal, (as viewed on an O-scope) the posetive or the negative half. This allows the tubes to run cooler, since one tube is basically idling, while the other one is amplifying. BUT, tubes can't instantly come up to full power; there is a delay. As a result of this, the two halves of the signal being amplified will not match/meet up properly, to give a decent waveform. This is a nasty sounding form of distortion, full of ugly spurs, called crossover distortion.

This is dealt with, by starting up the idling tube, while the other tube is still amplifying, so that when it's time for idling tube to takke over amplifying the other half of the signal, it is at full power, and the waveform halves match up. This eliminates (as long as you take care to start up the idling tube at the right time), crossover distortion. But when this startup happens, the formerly idling tube is also amplifying some of the other half of the signal. It's sort of, but not really acting in a Class A fashion (where the tube amplifes the entire signal), but as sort of hybrid that is called Class AB. There are diffreent levels of Class AB amplification, that depend upon, when you start powering up the idling tube for use. As Bob mentioned, Kenwood hybrids use CLass AB1.

Bob's also right about the reliability and distortion aspects of Class AB1. Becuse the tubes are running cooler, they last longer, and they are less apt to distort.

From my own personal experience with tube amplification, as a guitarist, I can vouch for that. There are only a few Class A guitar amp designs out there. The most notable, is the Vox AC-30, made famous by the Beatles, and Queen's guitarist, Brian May. It uses a quartet of EL84s (US designation, 6BQ5), in Class A. It's maximum output is 30 watts. By camparison, I gigged for about a year with a Peavy Classic 50 guitar amp. It used a quartet of EL-84s. BUT, it ran Class AB1, and put out 50 watts. It was as reliable as a stone axe, whereas Vox AC30s, may have gotten better, but still have a reputation for blowing tubes (if you run them hard for too long), because they run so hot. But some people like the sound of Class A amps run in the non-linear/distortion region. It's loaded with harmonics (a disastrous thing to deal with in radio applications; all of those spurs, ugh!), and to them is a smoother, sweeter sounding kind of distortion.

By contrast, Class AB amps do not distort as easily (making them more desirable for radio applications). This is not to say that they won't distort. They most certainly will (just listen to a Marshall, or a Mesa Boggie running full tilt, and you'll hear just how brutally Class AB amps can distort), it's just that it takes more work to do it, and it isn't as laden with harmonics/spurs.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> Ellen,
> The finals in the Kenwood hybrids are run class AB1. The efficiency on SSB is
> then about 60-65%. In class A the efficiency would be much less. The Heathkit
> and Collins rigs using 6146s also ran class AB1. For parallel tubes, this
> gives the highest power output without distortion.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7683. Re: 6146B Matched Pair - What Does It Mean

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 01:55:08 UTC
From: Ellen R
Topic: 7658 Message: 7683

Geez! I should have read this before I posted the other message! I'd better bone up. I'm beginning to believe that push-pull is a different animal alltogether.

I got your card today Bob. Thanks for the QSO, anytime you want another sked, let me know. I'll send out my card to you on Monday (I didn't get my mail out of my box, until after 5pm, no thanks to one of my nasty cluster migraines kicking in at 1pm, and putting me out of commission until 5pm).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> To expound further, SSB amplifiers can be run AB1 because there is no
> carrier. Therefore, the drive can be set almost to the point that grid current will
> be drawn. For AM, or audio applications, the drive would need to be much lower
> to avoid driving the grid positive. This is why these efficient amplifiers
> can be run singly or in parallel in SSB use and not have to be run push-pull.
> Thank you for the 40 meter contact, Ellen!
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7684. 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 18:04:13 UTC
From: belbert2002
Topic: 7684 Message: 7684

My Remote DIN socket does not close the circuit that is needed to control a linear amp. The job is done at pins 4, 2 (the center connection)and 5. In RX, pin 5 is closed and Pin 4 is open, as they should be. In Tx, pin 5 is open (as it should be) but pin 4 is also open (should be closed so that the linear is activated).

These go to relay RL1 on the AF board. I popped the dust cover off and it seems OK inside.

Any suggestions on how to clear this up?

Thanks and 73, Bruce K6ZB

7685. Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 19:04:52 UTC
From: Gordon
Topic: 7684 Message: 7685

You are right. Pins 2 and 5 should close together during transmit. I have my amp wired to 2 and 5 and it works great with the 830S that way. I am looking at a picture of the Relay and during transmit the blu/wht and the red/wht should close coming off the bottom of the Relay. During Receive, the Ylw/wht and the Red/Wht are closed.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> My Remote DIN socket does not close the circuit that is needed to
> control a linear amp. The job is done at pins 4, 2 (the center
> connection)and 5. In RX, pin 5 is closed and Pin 4 is open, as they
> should be. In Tx, pin 5 is open (as it should be) but pin 4 is also
> open (should be closed so that the linear is activated).
>
> These go to relay RL1 on the AF board. I popped the dust cover off and
> it seems OK inside.
>
> Any suggestions on how to clear this up?
>
> Thanks and 73, Bruce K6ZB
>

7686. TS-530S Filter Capacitor

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 19:10:01 UTC
From: Stephen Davis
Topic: 7686 Message: 7686

Hello All,

Does anyone know where I can purchase replacement filter capacitors for the TS-530S. Part number C90-0327-05 (100-uf 500 volt can capacitor). The output on my radio suddenly dropped from 100 watts output to about 40 watts output. The cw tone is chirpy and I only have about 350 volts on the plates of my output tubes. I think all of this points to a bad filter capacitor. I had posted this problem 3 or 4 weeks ago, but then got busy doing other stuff. Bob (G8ACQ) suggested it might be the filter capacitors and it looks like it is. One of the capacitors will "charge up" when I test it with an ohmmeter. The other just shows a high resistance and does not charge. Any thoughts on other tests I could perform would be appreciated. Also any suggestions on a source of replacements for the capacitors.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

7687. Re: [TS-520_820_530_830] TS-530S Filter Capacitor

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 19:33:35 UTC
From: Jeff May
Topic: 7686 Message: 7687

I bought them from digikey..W0XV
----- Original Message -----
From: "Stephen Davis" <sdavis@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, May 21, 2006 2:10 PM
Subject: [TS-520_820_530_830] TS-530S Filter Capacitor

> Hello All,
>
> Does anyone know where I can purchase replacement filter capacitors
> for
> the TS-530S. Part number C90-0327-05 (100-uf 500 volt can capacitor).
> The
> output on my radio suddenly dropped from 100 watts output to about 40
> watts
> output. The cw tone is chirpy and I only have about 350 volts on the
> plates
> of my output tubes. I think all of this points to a bad filter capacitor.
> I had posted this problem 3 or 4 weeks ago, but then got busy doing other
> stuff. Bob (G8ACQ) suggested it might be the filter capacitors and it
> looks like it is. One of the capacitors will "charge up" when I test it
> with an ohmmeter. The other just shows a high resistance and does not
> charge. Any thoughts on other tests I could perform would be appreciated.
> Also any suggestions on a source of replacements for the capacitors.
>
> Thanks
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7688. Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 19:41:30 UTC
From: Daniel
Topic: 7684 Message: 7688

Hi Bruce

The main question is: can you key DIRECTLY the amplifier. Or do you need an external relay because the high current? I'm using generally an ARB-704 from ameritron.

Daniel, HB9DDS

7689. TS-830S Operation with a second receiver.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 19:26:26 UTC
From: N3DOK
Topic: 7689 Message: 7689

Hi, On page 26 of the TS-830S Instruction manual there are 2 items about Operation with a second receiver.

First one is Operation with a second receiver

Second is Operation as a second receiver.

Has any one done these? If you have 2 TS-830S, could you set them up as described above? What use would this serve?

Thank You, Bob N3DOK

[Non-text portions of this message have been removed]

7690. Re: TS-830S Operation with a second receiver.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 20:06:23 UTC
From: Daniel
Topic: 7689 Message: 7690

Hi Bob

You can use it as a VFO instead a VFO-230

Daniel, HB9DDS

7691. Re: [TS-520_820_530_830] TS-530S Filter Capacitor

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 21:13:23 UTC
From: Gary & Carrie Meyer
Topic: 7686 Message: 7691

You are right. Replace the caps. DiGi-Key has them.

KCØNPJ
Gary & Carrie Meyer
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, May 21, 2006 2:10 PM
Subject: [TS-520_820_530_830] TS-530S Filter Capacitor

Hello All,

Does anyone know where I can purchase replacement filter capacitors for
the TS-530S. Part number C90-0327-05 (100-uf 500 volt can capacitor). The
output on my radio suddenly dropped from 100 watts output to about 40 watts
output. The cw tone is chirpy and I only have about 350 volts on the plates
of my output tubes. I think all of this points to a bad filter capacitor.
I had posted this problem 3 or 4 weeks ago, but then got busy doing other
stuff. Bob (G8ACQ) suggested it might be the filter capacitors and it
looks like it is. One of the capacitors will "charge up" when I test it
with an ohmmeter. The other just shows a high resistance and does not
charge. Any thoughts on other tests I could perform would be appreciated.
Also any suggestions on a source of replacements for the capacitors.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7692. Looking for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 21:45:49 UTC
From: Daniel
Topic: 7692 Message: 7692

a front glas (B10-0607-14) for my TS-520S. Or is there a way to hide some scratches??

Daniel, HB9DDS

7693. Re: Looking for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 22:06:37 UTC
From: Graham
Topic: 7692 Message: 7693

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> a front glas (B10-0607-14) for my TS-520S. Or is there a way to hide
some scratches??
>

It may be worth using some 'Jewellers Rouge' to polish them out if you
cannot get a glass.

Any half decent Jeweller / Watch maker - repairer should be able to
sell you some. [Not a chain store type !]

73 Graham M5AAV

7694. SP-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 22:20:53 UTC
From: James D Harrison
Topic: 4389 Message: 7694

I just recieved a SP-520 to complete my station, and after hooking it up it takes almost full volume (9) to hear anything, where the internal speaker sounds good between a setting of (2 - 3).

Is this normal? Or do I need to take the speaker apart, and replace the speaker element? or possiable other cause?

After replacing the finals that kept blowing the fuse, a few weeks ago, I did make my first contact using the TS-520S today, and talked to W2GSB/APM special event station.

Thanks

73 James KG4PBI

7695. Update on my Old TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-21 23:26:17 UTC
From: Gordon
Topic: 7695 Message: 7695

Ok, Fixed the Sidetone Oscillator Today. Turned out R-39 (470k) on the FIX - VOX boardwas open therefore Not giving any Voltage to the base of Q-12. Now the Side Tone works Great.
I am still trouble shooting the Speech Processor. I have VERY low output when I switch the Compression on. I checked all the resistors feeding Q-30 on the IF board and they all checked good. I replaced Q-30 just to be sure, but NO luck. I also checked VR-7 and it checks good. Any Suggestions for the Speech processor fix??

Thanks to all for all the help you have given me on this Project.
It's ALMOST done now.
Everything Else seems to work Great on this Old rig !
Just worked the Cayman Islands on 15 meters. Ok, Need to go spend some time with the XYL.
73,
Gordon

7696. RE: [TS-520_820_530_830] TS-530S Filter Capacitor

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 00:41:18 UTC
From: Stephen Davis
Topic: 7686 Message: 7696

All,

Thanks for the pointer to DigiKey. I will order then and let the group know how it goes.

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gary & Carrie Meyer
Sent: Sunday, May 21, 2006 3:13 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-530S Filter Capacitor

You are right. Replace the caps. DiGi-Key has them.

KCØNPJ
Gary & Carrie Meyer
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, May 21, 2006 2:10 PM
Subject: [TS-520_820_530_830] TS-530S Filter Capacitor

Hello All,

Does anyone know where I can purchase replacement filter capacitors for the TS-530S. Part number C90-0327-05 (100-uf 500 volt can capacitor). The output on my radio suddenly dropped from 100 watts output to about 40 watts output. The cw tone is chirpy and I only have about 350 volts on the plates of my output tubes. I think all of this points to a bad filter capacitor. I had posted this problem 3 or 4 weeks ago, but then got busy doing other stuff. Bob (G8ACQ) suggested it might be the filter capacitors and it looks like it is. One of the capacitors will "charge up" when I test it with an ohmmeter. The other just shows a high resistance and does not charge. Any thoughts on other tests I could perform would be appreciated. Also any suggestions on a source of replacements for the capacitors.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

--
YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

--

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7697. Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 01:32:43 UTC
From: belbert2002
Topic: 7684 Message: 7697

Daniel, thank you for asking about the linear. The problem is definitely due to the relay, RL1, since there is no contact closure when tested with a continuity checker between pins 2 and 4 of the Remote jack. Regards, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...> wrote:
>
> Hi Bruce
>
> The main question is: can you key DIRECTLY the amplifier. Or do you need an external relay
> because the high current? I'm using generally an ARB-704 from ameritron.
>
> Daniel, HB9DDS
>

7698. Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 01:36:39 UTC
From: Gordon
Topic: 7684 Message: 7698

Check the Connector going to the Relay !.
Gordon

N6WK

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> Daniel, thank you for asking about the linear. The problem is
> definitely due to the relay, RL1, since there is no contact closure
> when tested with a continuity checker between pins 2 and 4 of the
> Remote jack. Regards, Bruce K6ZB
>
> --- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@>
> wrote:
> >
> > Hi Bruce
> >
> > The main question is: can you key DIRECTLY the amplifier. Or do you
> need an external relay
> > because the high current? I'm using generally an ARB-704 from
> ameritron.
> >
> > Daniel, HB9DDS
> >
>

7699. Re: [TS-520_820_530_830] Re: Looking for.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 01:40:56 UTC
From: Charles Mortimer
Topic: 7692 Message: 7699

go down to your nearest glass shop (window glass) and ask for some thin
Perspex or acrylic 2 mill thick and fashion a new one simple
procedure for the handy man
Charles vk6ycj

----- Original Message -----
From: "Graham" <graham@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, May 22, 2006 6:06 AM
Subject: [TS-520_820_530_830] Re: Looking for.....

> --- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
> wrote:
>>
>> a front glas (B10-0607-14) for my TS-520S. Or is there a way to hide
> some scratches??
>>
>
> It may be worth using some 'Jewellers Rouge' to polish them out if you
> cannot get a glass.
>
> Any half decent Jeweller / Watch maker - repairer should be able to
> sell you some. [Not a chain store type !]
>
> 73 Graham M5AAV
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7700. Re: 830S Remote connection will not key linear - and RL1 malfunction

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 01:40:56 UTC
From: belbert2002
Topic: 7684 Message: 7700

Gordon, thanks for confirming how the Remote jack and relay are supposed to work. I am sure that the relay, RL1, is not making the proper contact closure.

I went ahead and removed he plastic cover of RL1 (on the AF board) and attempted to clean it. This turned out to be a bad idea because not only is there no contact closure for my linear, but the radio is not receiving! I can get it to receive by twiddling with the relay reeds (facing the connector socket). But, which I let go, the audio drops out. The radio will transmit, however.

It seems to me that I'll need to replace the relay, which hopefully will cure both problems. Is there an easy way to remove relay RL1 and is there a source for this item? Any suggestions are appreciated.

73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> You are right. Pins 2 and 5 should close together during transmit. I
> have my amp wired to 2 and 5 and it works great with the 830S that
way.
> I am looking at a picture of the Relay and during transmit the
> blu/wht and the red/wht should close coming off the bottom of the
> Relay. During Receive, the Ylw/wht and the Red/Wht are closed.
>
> Gordon
> N6WK
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@>
wrote:
> >
> > My Remote DIN socket does not close the circuit that is needed to
> > control a linear amp. The job is done at pins 4, 2 (the center
> > connection)and 5. In RX, pin 5 is closed and Pin 4 is open, as
they
> > should be. In Tx, pin 5 is open (as it should be) but pin 4 is
also
> > open (should be closed so that the linear is activated).
> >
> > These go to relay RL1 on the AF board. I popped the dust cover
off and
> > it seems OK inside.
> >
> > Any suggestions on how to clear this up?

> >
> > Thanks and 73, Bruce K6ZB
> >
>

7701. Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 01:43:52 UTC
From: belbert2002
Topic: 7684 Message: 7701

Gordon, I pulled off and put on that connector and the others on the AF board. That didn't fix it. Sure seems like RL1. Thanks and 73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Check the Connector going to the Relay !.
> Gordon
>
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@> wrote:
> >
> > Daniel, thank you for asking about the linear. The problem is
> > definitely due to the relay, RL1, since there is no contact closure
> > when tested with a continuity checker between pins 2 and 4 of the
> > Remote jack. Regards, Bruce K6ZB
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@>
> > wrote:
> > >
> > > Hi Bruce
> > >
> > > The main question is: can you key DIRECTLY the amplifier. Or do you
> > need an external relay
> > > because the high current? I'm using generally an ARB-704 from
> > ameritron.
> > >
> > > Daniel, HB9DDS
> > >
> >
>

7702. Re: [TS-520_820_530_830] Re: TS-830S Operation with a second receiver.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 06:34:27 UTC
From: N3DOK
Topic: 7689 Message: 7702

Hi, Thank you Daniel for your reply. Can you or anyone else suggest how I would wire up a second TS-830S to be used as a VFO?

Bob N3DOK
----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, May 21, 2006 4:06 PM
Subject: [TS-520_820_530_830] Re: TS-830S Operation with a second receiver.

Hi Bob

You can use it as a VFO instead a VFO-230

Daniel, HB9DDS

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7703. TS830S Kenwood Display lost!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 13:36:21 UTC
From: vk4oc
Topic: 7703 Message: 7703

G'day Everyone
I have a little trouble with my TS830s, it's on 3.600Mhz LSB, the minute I go up to 14.200MHZ USB a blank screen and no display.
If I use 14.200 MHZ LSB the display comes up.
Can anyone give me a easy fix or is the switch need a bit oil on the aging old Kenwood.
Hoping someone has had the same trouble in our group.
De.Dennis vk4oc

7704. Dayton Hamvention A Success

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 13:46:04 UTC
From: Ken Gunton
Topic: 7704 Message: 7704

The weather was almost perfect for the Hamvention this year. Not much rain, and then only sprinkles from Friday through Sunday.

I purchased a Station Monitor for my TS-830S. It's in cherry condition, and works perfectly. I have never used a station monitor before, and being able to "see" what's going on around my frequency is fascinating. Today, I'll put together another cable so I can use it to monitor my signal and see how I'm doing.

Second purchase was a Heil Pro-Set 5 with an adapter for my rig, and a Heil footswitch. Contacts last night said my audio sounds really good.

Third purchase was a low-pass filter, which resulted in interference to one of the the TVs in the house completely going away.

Anyone know where I can get a VFO-230?

One unfortunate incident was that I missed my Extra by one question, and didn't have time to take another version of the exam, which was offered free..... more studying needed. Next month I'll take it.... I'm so tired of seeing all that DX from 14.000 to 14.025.... hi

Ken,
W8ASA

7705. TS830S Kenwood Display lost

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 13:55:29 UTC
From: vk4oc
Topic: 7705 Message: 7705

Hi Everyone
I have a little trouble with my TS830S, the display unit is lost when I go into USB. I give you example, I'm on 3.600 MHZ LSB, if I switch it up to 3.600 MHZ USB all the display is lost.
The same on 14.200 MHZ. USB. switch it to LSB display comes back.
I hoping it may be a quick fix, put a bit of oil on the switch, can anyone help me with this little problem.
If you had this type of trouble could you advise me on a fix.
Or something could be something internal needing fixing.
De.Dennis VK4OC in Tallegalla Queensland Australia.

7706. RE: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 14:18:06 UTC
From: Hauser, Ron M.
Topic: 6191 Message: 7706

Hey Ellen, after reading the discussion about class A, AB, AB1, B, push-pull amps, I sure hope you stick around on this group. You are on the way to becoming a "Walt-class" resource! :)

I thought I'd give a comment on the plate dip; on my TS830 I see a pronounced dip on some bands (20m and up) and I see a barely perceptible dip on lower bands (40m, 80m, 160m). So I doubt that you have a problem. Or if you do, I also have it.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Friday, May 19, 2006 9:25 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 6146B Tubes

Hi Bill,

Yes I do. This is actually my 5th tube or hybrid rig I've owned in my 28 years as a ham. I've always tuned up into a dummy load first. The strange thing is that I don't get much of a plate current dip. But this may be normal. My memory may be failing me on this. But I think even when I used the TS-830S at W9YT (the Univ. of WI ham club's station) in '86 & 87, there wasn't much Plate Currnt dip on it. I'm just not 100% sure on this recollection.

It's possible that I may be used to seeing the major plate current dip I used to get out of the Drake T4XC I used to have years ago (or the FT-101B I had in college, which also had a pretty noticeable plate dip). I'm gonna recheck the dummy load output again today (I'm off of work today, and for a change, I'm not in a hurry to get things tuned up for a sked). I'm pretty sure that I'm getting 70-90W output.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...> wrote:
>
> Have you tried using a dummy load to get a
> dip and and then adjust in RF meter position
> for maximum smoke or appox. 100 watts?
>
> 73 de Bill, N4DH

>
> --- Ellen R <ellenjoanne2003@...> wrote:
>
> > I'm happy with my 6146Ws too. I guess I'm just
> > wondering why output
> > power seems kind of low, and why I can't get a
> > pronounced plate
> > current dip, when I tune.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
> > <crousseau@> wrote:
> > >
> > > Yes we do still have 6146B's available singly or
> > in matched pairs.
> > You are correct in that they are getting very scarce
> > and pricey.
> > While we have a good supply of "W's", the "B's" are
> > in very short
> > supply. Not trying to drum up sales with scare
> > tactics here, it's
> > just the reality of the situation. BTW, I use the
> > 6146W's in my
> > 520SE and I'm perfectly happy with them.
> > > >
> > > > From: "Ellen R" <ellenjoanne2003@>
> > > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been
> > removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com

>

Yahoo! Groups Links

7707. RE: [TS-520_820_530_830] TS-520S - IF Frequency ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 16:20:32 UTC
From: Marc F1GSN
Topic: 7461 Message: 7707

Dick N3HKN

Did you succeed in the set up of a SDR for the TS-520S ?

If yes, which SDR are you using or plan to use ?

73"

Marc F1GSN

-----Message d'origine-----
De : TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]De la part de n3hkn
Envoyé : lundi 1 mai 2006 19:33
À : TS-520_820_530_830@yahoogroups.com
Objet : [TS-520_820_530_830] TS-520S - IF Frequency ??

Can anyone verify that the IF frequency, where the xtal filter
operates, is 3395khz??

My hope is to pick off this signal prior to the xtal filter. Then feed
it to a Software Defined Receiver (SDR). Use the DSP program to create
a wide range of free filters, noise reduction, and impulse noise
limiting. I would retain the "first half" of the 520 which gives me
band-switching. front-end preselector, a nice VFO, and of course
transmitting. Transmitting should not be affected since I am not
interrupting the signal path.

Dick N3HKN

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

--
YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

--

[Non-text portions of this message have been removed]

7708. Re: [TS-520_820_530_830] Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 17:49:19 UTC
From: Bill Richarz
Topic: 7684 Message: 7708

Hi Daniel,

What kind of amp are you using?

Right now I am keying a SB-200 directly with my
TS-820S. Just wondering if I need an intermediate
relay set up like yours?

tnx,
de Bill, N4DH

--- Daniel <schaeffler@...> wrote:

> Hi Bruce
>
> The main question is: can you key DIRECTLY the
> amplifier. Or do you need an external relay
> because the high current? I'm using generally an
> ARB-704 from ameritron.
>
> Daniel, HB9DDS
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7709. Re: TS830S Kenwood Display lost

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 18:02:17 UTC
From: Gordon
Topic: 7705 Message: 7709

HI Dennis,
It sounds like the MODE switch is dirty for the USB contacts.
I'd start by spaying the Mode switch with some De Oxit and working it
back and forth a bit before searching deeper.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "vk4oc" <vk4oc1@...> wrote:
>
> Hi Everyone
> I have a little trouble with my TS830S, the display unit is lost when I
> go into USB. I give you example, I'm on 3.600 MHZ LSB, if I switch it
> up to 3.600 MHZ USB all the display is lost.
> The same on 14.200 MHZ. USB. switch it to LSB display comes back.
> I hoping it may be a quick fix, put a bit of oil on the switch, can
> anyone help me with this little problem.
> If you had this type of trouble could you advise me on a fix.
> Or something could be something internal needing fixing.
> De.Dennis VK4OC in Tallegalla Queensland Australia.
>

7710. Re: [TS-520_820_530_830] Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 18:42:05 UTC
From: Jeff May
Topic: 7684 Message: 7710

No need...relay is matched to the TL922 which also uses a 125vac relay...do not use direct with Icom or Yaesu tho,...Jeff..W0XV
----- Original Message -----
From: "Bill Richarz" <billn4dh@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, May 22, 2006 12:49 PM
Subject: Re: [TS-520_820_530_830] Re: 830S Remote connection will not key linear

> Hi Daniel,
>
> What kind of amp are you using?
>
> Right now I am keying a SB-200 directly with my
> TS-820S. Just wondering if I need an intermediate
> relay set up like yours?
>
> tnx,
> de Bill, N4DH
>
> --- Daniel <schaeffler@...> wrote:
>
>> Hi Bruce
>>
>> The main question is: can you key DIRECTLY the
>> amplifier. Or do you need an external relay
>> because the high current? I'm using generally an
>> ARB-704 from ameritron.
>>
>> Daniel, HB9DDS
>>
>>
>>
>>
>>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
>

> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7711. Re: [TS-520_820_530_830] Re: 830S Remote connection will not key linear

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 20:38:33 UTC
From: Stephen Goldberg
Topic: 7684 Message: 7711

Suggest you investigate the soft-key module from Harbach Electronics (www.harbachelectronics.com). Been using it with my 530 and SB-200 for a long time. It's cheap and protects the relay from the high keying voltage of the amp.
Steve W4IMF

----- Original Message -----
From: "Bill Richarz" <billn4dh@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, May 22, 2006 1:49 PM
Subject: Re: [TS-520_820_530_830] Re: 830S Remote connection will not key linear

> Hi Daniel,
>
> What kind of amp are you using?
>
> Right now I am keying a SB-200 directly with my
> TS-820S. Just wondering if I need an intermediate
> relay set up like yours?
>
> tnx,
> de Bill, N4DH
>

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.392 / Virus Database: 268.7.0/345 - Release Date: 5/22/06

7712. Re: TS830S Kenwood Display lost

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-22 22:55:28 UTC
From: vk4oc
Topic: 7705 Message: 7712

Hi Gordon
I'll try some of that De Oxit, I would say we have this type of cleaner in Australia. Many thanks and I'll give you a report once I have found the cleaner at the electrical shop.
De.Dennis vk4oc
Cheers and many thanks.

- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> HI Dennis,
> It sounds like the MODE switch is dirty for the USB contacts.
> I'd start by spaying the Mode switch with some De Oxit and working it
> back and forth a bit before searching deeper.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "vk4oc" <vk4oc1@> wrote:
> >
> > Hi Everyone
> > I have a little trouble with my TS830S, the display unit is lost when I
> > go into USB. I give you example, I'm on 3.600 MHZ LSB, if I switch it
> > up to 3.600 MHZ USB all the display is lost.
> > The same on 14.200 MHZ. USB. switch it to LSB display comes back.
> > I hoping it may be a quick fix, put a bit of oil on the switch, can
> > anyone help me with this little problem.
> > If you had this type of trouble could you advise me on a fix.
> > Or something could be something internal needing fixing.
> > De.Dennis VK4OC in Tallegalla Queensland Australia.
> >
>

7713. Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 03:54:50 UTC
From: Jody Mills
Topic: 7581 Message: 7713

> 1. The logo below the tuning dial - the TS-520 logo will be "TS-520".
> The TS-520S logo will be "TS-520S".

Okay, color me dumb. The radio is a 520s, according to the plainly obvious label. Too many 14 hour workdays I guess!

As to what is wrong with the radio, the person I bought it from on ebay some time ago said that they turned it on, heard a popping sound, saw a wisp of smoke, and the radio failed to work from that point on. I contacted Byron Campbell (wa4geg) and he said (if I remember correctly) that it sounds like some sort of fuse or some such. As you can see by now, I'm no electronics expert. My main concern at the moment is getting my licenses and getting on the air with the best budget-conscious equipment I can get. I do plan to learn the electronics stuff eventually. I hear the Forrest Mims books are supposed to be good.

Jody (by the way, I'm a guy, but no harm done!)

7714. Kenwood SM-220 Installation

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 13:17:25 UTC
From: fiberkey
Topic: 7714 Message: 7714

For those of you who are interested in interfacing the Kenwood SM-220 Station Monitor with other equipment from either Kenwood or others I would like to direct you to my June 2006 column ("Math's Notes") in CQ Magazine. In this column I give detailed directions as to how to modify the BS-5 or BS-8 panadapter modules to any IF from 3.5MHz to 10.7MHz regardless of which module you have. Also given is information as to how and where to determine the proper IF takeoff point. I hope this information will be usefull to the many who have expressed interest in this product.

7715. Replacing RL1 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 14:03:17 UTC
From: belbert2002
Topic: 7715 Message: 7715

I'm looking for advice on how to replace the RL1 relay on the AF board of the TS-830. I've ordered a new one from East Coast Transistor, and was told it would take 3 weeks for the relay to get to me.

The relay is soldered into the board at several places. So, I guess I need to heat each connection and then suck the solder out. I would then remove the relay as one piece. There is the possibility of harming the board or other components.

Comments and suggestions would be appreciated. 73, Bruce K6ZB

7717. Re: [TS-520_820_530_830] Re: Removing of the driver tube V1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 19:23:09 UTC
From: Walt Breining
Topic: 7619 Message: 7717

The tube shield is split and springs closed over the tube, Spread it apart
and the tube will slide out.
Walt N9WB
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 17, 2006 1:02 PM
Subject: [TS-520_820_530_830] Re: Removing of the driver tube V1

> It shouldn't be "Permantly" fixed. Mine has a small metal strip that
> runs up the inside of the black coat against the glass of the Tube
> grounding the Coat. It should just slide right off,Somtimes (actually
> most of the time) the tube will come out of the socket with the black
> coat attached, then I just slide the tube out, although it might be a
> bit tight.
> At least this has been my Experience.
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
> wrote:
> >
> > Hi folks
> >
> > The tube V1 has already a black "coat" over the tube:
> >
> > - How can I remove this black "coat"? It is fixed on the botton but
> I dont know exactly how!
> >
> > - For what is this black "coat"?
> >
> > Daniel, HB9DDS
> >
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>

>
>
>
>
>

7718. Re: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 19:36:00 UTC
From: Walt Breining
Topic: 7629 Message: 7718

The Vox works from the side tone on CW so no sidetone, not vox. I just got back from Dayton and will see if I can help shortly, now that I see that it is an 820.

Walt N9WB

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 17, 2006 9:09 PM
Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S

> Thanks for the tips Dennis, Here is something else I noticed. I can
> adjust the Vox to activate during SSB operation,and it works great,
> But It will NOT activate during CW operation , no matter how high I
> turn up the gain. Is that telling us something ?? I'm sort of LOST in
> chasing this Sidetone down!! Received Audio works fine... just NO side
> tone. VR3 seems to check out ok with an ohm meter.
>
> Thanks,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
> <windled@...> wrote:
> >
> > Gordon;
> > Q12 on the Fix-Vox unit is the Sidetone Oscillator and
> it's output is fed to VR3 on the AF-AVR unit where you adjust the
> Sidetone input level to the AF-Amp TA7201P (same input as received
> audio, so if that is working the Sidetone Osc signal is either missing
> or being lost across a bad connection between the two boards or VR3 is
> corroded and you cannot tap enough signal off of it to drive the AF-Amp.
> >
> > D.Windle
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, May 17, 2006 5:55 PM
> > Subject: [TS-520_820_530_830] Side Tone Circuit in TS-820S
> >
> >
> > I have my 820 working pretty darn good now. Other then the Speech
> > processor, everything is working PERFECT, or so I thought. I went to
> > use it on CW today and I get NO sound from the Sidetone. I checked VR3
> > on the AF-AVR unit and it appears to check good. When I key the rig,
> > All I get is a clicking from the speaker.. No Sidetone. Does the

> > Sidetone come from the FIX-VOX unit or does it come from the AF- AVR
> > unit ? I see in the schematic a circuit labeled ST from the FIX-VOX to
> > the AF_AVF unit.
> > Any hints?
> >
> > 73,
> > Gordon
> >
> >
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
> --

> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
> --

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>
>

7719. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 18:47:52 UTC
From: Ellen R
Topic: 6191 Message: 7719

Hi Ron,

I'm writing this during a break at work. I've been busy the past few days, so I've been kind of quiet. Yeah, I'm beginning to think that my Ts-820 plate dip is pretty normal for the rig. If I remember right, the TS-520S I briefly had in college, and the TS-830S that W9YT (the Univ. of WI club station) had, didn't really give mega dips when tuning up. I guess I've been basing my expectations upon the last two tube rigs I owned, An FT-101B, and a set of Drake twins. Both of those used sweep tubes, so they probably dipped quite a bit more.

I'm pretty sure she's working fine. I'm just going to leave well enough alone. I get great signal reports, and I love the receiver. It's soooooo much quieter than my IC-703 Plus is. I plan on doing the CW edition of the CQ WPX this weekend. My IC-703 Plus is my contest machine (because of it's frequency agility), but I'm actually debating using my TS-820, QRP. Especially since I installed the 500 Hz CW filter in it a few weeks ago.. We'll see.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M." <eichmann@...> wrote:
>
> Hey Ellen, after reading the discussion about class A, AB, AB1, B, push-pull amps, I sure hope you stick around on this group. You are on the way to becoming a "Walt-class" resource! :)
>
> I thought I'd give a comment on the plate dip; on my TS830 I see a pronounced dip on some bands (20m and up) and I see a barely perceptible dip on lower bands (40m, 80m, 160m). So I doubt that you have a problem. Or if you do, I also have it.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Friday, May 19, 2006 9:25 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: 6146B Tubes
>

> Hi Bill,
>
> Yes I do. This is actually my 5th tube or hybrid rig I've owned in
> my 28 years as a ham. I've always tuned up into a dummy load
first.
> The strange thing is that I don't get much of a plate current dip.
> But this may be normal. My memory may be failing me on this. But I
> think even when I used the TS-830S at W9YT (the Univ. of WI ham
> club's station) in '86 & 87, there wasn't much Plate Currnt dip on
> it. I'm just not 100% sure on this recollection.
>
> It's possible that I may be used to seeing the major plate current
> dip I used to get out of the Drake T4XC I used to have years ago
(or
> the FT-101B I had in college, which also had a pretty noticeable
> plate dip). I'm gonna recheck the dummy load output again today
(I'm
> off of work today, and for a change, I'm not in a hurry to get
things
> tuned up for a sked). I'm pretty sure that I'm getting 70-90W
output.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill Richarz
> <billn4dh@> wrote:
> >
> > Have you tried using a dummy load to get a
> > dip and and then adjust in RF meter position
> > for maximum smoke or appox. 100 watts?
> >
> > 73 de Bill, N4DH
> >
> > --- Ellen R <ellenjoanne2003@> wrote:
> >
> > > I'm happy with my 6146Ws too. I guess I'm just
> > > wondering why output
> > > power seems kind of low, and why I can't get a
> > > pronounced plate
> > > current dip, when I tune.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> > > <crousseau@> wrote:
> > > >
> > > > Yes we do still have 6146B's available singly or
> > > in matched pairs.

> > > You are correct in that they are getting very scarce
> > > and pricey.
> > > While we have a good supply of "W's", the "B's" are
> > > in very short
> > > supply. Not trying to drum up sales with scare
> > > tactics here, it's
> > > just the reality of the situation. BTW, I use the
> > > 6146W's in my
> > > 520SE and I'm perfectly happy with them.
> > > > >
> > > > > From: "Ellen R" <ellenjoanne2003@>
> > > > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > > > >
> > > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been
> > > removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

7720. Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 18:55:41 UTC
From: Ellen R
Topic: 7581 Message: 7720

Jody, don't be so sure that it's just a fuse. That's the first thing to go. If that's all that went, you're lucky. Even then, a blowing fuse can be sign of other problems. I have a Yaesu FT-221 all-mode I bought off of e-bay, that popped, and gave off smoke, the first time I tried it out, to see if it worked (hey, I got it cheap for about 130 dollars, without a mic or power cord). It turned out there was a short across the reverse polarity protection diode, that took out one o=f the circuit board traces, the pass transistor, and the bridge rectifier. Luckily it only cost $10 worth of parts to fix things.

Nevertheless, you may want to check power supply related things. BE CAREFUL. Some of the voltages are several hundred volts.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills" <jody.mills@...> wrote:
>
> > 1. The logo below the tuning dial - the TS-520 logo will be "TS-
> 520".
> > The TS-520S logo will be "TS-520S".
>
> Okay, color me dumb. The radio is a 520s, according to the plainly
> obvious label. Too many 14 hour workdays I guess!
>
> As to what is wrong with the radio, the person I bought it from on
> ebay some time ago said that they turned it on, heard a popping
> sound, saw a wisp of smoke, and the radio failed to work from that
> point on. I contacted Byron Campbell (wa4geg) and he said (if I
> remember correctly) that it sounds like some sort of fuse or some
> such. As you can see by now, I'm no electronics expert. My main
> concern at the moment is getting my licenses and getting on the air
> with the best budget-conscious equipment I can get. I do plan to
> learn the electronics stuff eventually. I hear the Forrest Mims
> books are supposed to be good.
>
> Jody (by the way, I'm a guy, but no harm done!)
>

7721. TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 19:05:31 UTC
From: Stephen Davis
Topic: 7721 Message: 7721

Hello All,

Thanks to this great group of people and to the problem Gordon resolved with his 820S, I now have bias on my TS-820S! Similar type of problem as Gordon's in that it was a flakey relay board connector. Now that I have bias, I can tune up the radio.... However, looks like there still might be a problem (Darn!). I tuned the radio on 40 meters and got 100 watts out, but when I checked the LP current, the needle was pegged. I quickly reduced carrier to get the recommended 200 milliamps, but that reduced my output to about 5 watts.

Any thoughts on what might be causing this would be appreciated.

Thanks and 73

Steve K7QHU

[Non-text portions of this message have been removed]

7722. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 19:53:47 UTC
From: Ellen R
Topic: 7721 Message: 7722

Hi Steve, I ahve a TS-820. LP? I assume you mean IP (plate current?). Did you check the Plate Idle Current? The procedure's listed in the manual. Basically, put the mode switch in LSB, and switch the meter reading to IP. It should only read 60ma. It sounds like your idle current (which is also your bias current) is way too high. To adjust it to 60mA, go to the back panel of the radio. There's a bias adjustment POT in the lower corner, near the SO-239 antenna plug (it's protected by a cap screw you have to remove). Turn this pot to adjust your idle current to 60mA.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...> wrote:
>
> Hello All,
>
> Thanks to this great group of people and to the problem Gordon resolved
> with his 820S, I now have bias on my TS-820S! Similar type of problem as
> Gordon's in that it was a flakey relay board connector. Now that I have
> bias, I can tune up the radio.... However, looks like there still might be a
> problem (Darn!). I tuned the radio on 40 meters and got 100 watts out, but
> when I checked the LP current, the needle was pegged. I quickly reduced
> carrier to get the recommended 200 milliamps, but that reduced my output to
> about 5 watts.
>
> Any thoughts on what might be causing this would be appreciated.
>
> Thanks and 73
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>

7723. RE: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 20:19:03 UTC
From: Stephen Davis
Topic: 7721 Message: 7723

Hi Ellen,

Oh I hate typos. Yes, I did mean the IP current. I followed the procedure for setting the bias and it is at 60mA when the mode switch is in LSB and the meter is in the IP position. When I tune the radio, in order to get 100 watts out, I have to turn the carrier control up to the number six position on the dial. Then, when I turn the meter switch to the IP setting, the needle is pegged at 350mA. If I back the carrier control back down to the number 2 position, it reduces the IP to the recommended 200 mA level, but my output falls to about 5 watts. I am tuning the radio using a dummy load. I think something is amiss!!

Thanks for your help.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Tuesday, May 23, 2006 1:54 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS820S Output Problem?

Hi Steve, I ahve a TS-820. LP? I assume you mean IP (plate current?). Did you check the Plate Idle Current? The procedure's listed in the manual. Basically, put the mode switch in LSB, and switch the meter reading to IP. It should only read 60ma. It sounds like your idle current (which is also your bias current) is way too high. To adjust it to 60mA, go to the back panel of the radio. There's a bias adjustment POT in the lower corner, near the SO-239 antenna plug (it's protected by a cap screw you have to remove). Turn this pot to adjust your idle current to 60mA.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...> wrote:
>
> Hello All,
>
> Thanks to this great group of people and to the problem Gordon resolved
> with his 820S, I now have bias on my TS-820S! Similar type of problem as
> Gordon's in that it was a flakey relay board connector. Now that I

have
> bias, I can tune up the radio.... However, looks like there still
might be a
> problem (Darn!). I tuned the radio on 40 meters and got 100 watts
out, but
> when I checked the LP current, the needle was pegged. I quickly
reduced
> carrier to get the recommended 200 milliamps, but that reduced my
output to
> about 5 watts.
>
> Any thoughts on what might be causing this would be
appreciated.
>
> Thanks and 73
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7724. Re: [TS-520_820_530_830] Replacing RL1 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 21:03:44 UTC
From: Bill Scurlock
Topic: 7715 Message: 7724

Hi Bruce. When I removed the bandswitch wafers from their PC board, I used a combination of a solder sucker, and then the wick type of solder remover. It worked very well. My solder sucker was a gift from my wife, and a very simple one from Radio Shack. The tip gets hot to melt the solder, there is a round hole in the hot tip that slips over the wire end, and there is a simple squeeze bulb to suck out the solder. Then, in some cases, I used the wick type of remover with my solder iron to remove some remaining solder. Some of the connections just fell out of the hole, and some of them had to be gently pushed to break them loose. With some patience you should be able to remove the relay with no damage to the board.

I also experienced problems with the RL1 relay, but was able to cure it by removing the plastic cover and using DeOxit on a thin piece of stiff paper to slip between the contacts and clean them.

Good luck with your project.

73, Bill, K5GCW
----- Original Message -----
From: belbert2002
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 23, 2006 9:03 AM
Subject: [TS-520_820_530_830] Replacing RL1 Relay

I'm looking for advice on how to replace the RL1 relay on the AF board
of the TS-830. I've ordered a new one from East Coast Transistor, and
was told it would take 3 weeks for the relay to get to me.

The relay is soldered into the board at several places. So, I guess I
need to heat each connection and then suck the solder out. I would then
remove the relay as one piece. There is the possibility of harming the
board or other components.

Comments and suggestions would be appreciated. 73, Bruce K6ZB

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7725. Re: Replacing RL1 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 21:51:17 UTC
From: belbert2002
Topic: 7715 Message: 7725

Bill, thanks. I'll visit RadioShack for that gadget (I've got the old fashioned solder sucker).

I followed that procedure with DeOxit and the card, but it was a disaster for me. I apparently either spread the reeds too far or possibily melted some of the plastic with the solvent.

73, Bruce

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Hi Bruce. When I removed the bandswitch wafers from their PC board, I used a combination of a solder sucker, and then the wick type of solder remover. It worked very well. My solder sucker was a gift from my wife, and a very simple one from Radio Shack. The tip gets hot to melt the solder, there is a round hole in the hot tip that slips over the wire end, and there is a simple squeeze bulb to suck out the solder. Then, in some cases, I used the wick type of remover with my solder iron to remove some remaining solder. Some of the connections just fell out of the hole, and some of them had to be gently pushed to break them loose. With some patience you should be able to remove the relay with no damage to the board.
>
> I also experienced problems with the RL1 relay, but was able to cure it by removing the plastic cover and using DeOxit on a thin piece of stiff paper to slip between the contacts and clean them.
>
> Good luck with your project.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: belbert2002
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 23, 2006 9:03 AM
> Subject: [TS-520_820_530_830] Replacing RL1 Relay
>
>
>
> I'm looking for advice on how to replace the RL1 relay on the AF board
> of the TS-830. I've ordered a new one from East Coast Transistor, and
> was told it would take 3 weeks for the relay to get to me.
>
> The relay is soldered into the board at several places. So, I guess I

> need to heat each connection and then suck the solder out. I
would then
> remove the relay as one piece. There is the possibility of
harming the
> board or other components.
>
> Comments and suggestions would be appreciated. 73, Bruce K6ZB
>
>
>
>
>
>
> --

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> --

>
>
>
> [Non-text portions of this message have been removed]
>

7726. [TS-520_820_530_830] Available 6146 tubes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 23:01:45 UTC
From: Walt Breining
Topic: 7726 Message: 7726

I was at the Dayton Hamfest and talked to RF Parts. They have matched pairs of Sylvania-ECG/Phillips 6146 tubes. These are labeled Phillips 6146 W. These appear to be from Sylvania's last run and are really 6146 B tubes according to RF Parts. They showed me the construction difference between the olde W tubes and the ones that they had. They has extra clamps holding the top mica insulator and a much bigger filament support.

In view of the fact that the later 6146 W tubes were actually B series, and the appearance of these tubes, I believe them. RF Parts warrants them for 1 year and sells them for $59.90 plus shipping for a matched pair (2 tubes for $59.90).

I have not tried them, but if I needed some right now, this would be the way I would go.

http://www.rfparts.com/6146w.html#w

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

7727. Re: [TS-520_820_530_830] BIAS and maybe output problem !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 23:39:29 UTC
From: Walt Breining
Topic: 7727 Message: 7727

First make sure the SG switch is ON.

Vy 73, Walt N9WB
----- Original Message -----
From: amater37
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 23, 2006 11:59 AM
Subject: [TS-520_820_530_830] BIAS and maybe output problem !!

By means of a small soft brush and a vacuum cleaner I have just
finished my cleaning inside my TS-520. I have also with spirits
lightly and carefully cleaned both dusted vacuum tubes - S2001.Then I
removed one bad pilot light and replaced all covers.

After switching my TS-520 on at first I would check current bias
setting. But no response. I check my steps and tryied again. The same
result. Meter pointer - no response. What did happen?
(sorry my english)

Thanks for help. Ivo

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7728. Re: [TS-520_820_530_830] TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 23:58:49 UTC
From: Walt Breining
Topic: 7721 Message: 7728

Check the cathode resistors on the 6146 tubes. They are probably bad. If you need more help doing so write back and I will go into more detail after I recover from Dayton.

Vy 73, Walt N9WB
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 23, 2006 2:05 PM
Subject: [TS-520_820_530_830] TS820S Output Problem?

Hello All,

Thanks to this great group of people and to the problem Gordon resolved with his 820S, I now have bias on my TS-820S! Similar type of problem as Gordon's in that it was a flakey relay board connector. Now that I have bias, I can tune up the radio.... However, looks like there still might be a problem (Darn!). I tuned the radio on 40 meters and got 100 watts out, but when I checked the LP current, the needle was pegged. I quickly reduced carrier to get the recommended 200 milliamps, but that reduced my output to about 5 watts.

Any thoughts on what might be causing this would be appreciated.

Thanks and 73

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7729. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 23:31:53 UTC
From: Gordon
Topic: 7721 Message: 7729

Yes Check R2 and R3. They are both 10 Ohms but are in Series so will ohm out at 5 ohms in the Circuit.

Also Check the IP meter resistor R4 it should read 3.3K . Mine was bad. I had to replace it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Check the cathode resistors on the 6146 tubes. They are probably bad. If you need more help doing so write back and I will go into more detail after I recover from Dayton.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Stephen Davis
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 23, 2006 2:05 PM
> Subject: [TS-520_820_530_830] TS820S Output Problem?
>
>
> Hello All,
>
> Thanks to this great group of people and to the problem Gordon resolved
> with his 820S, I now have bias on my TS-820S! Similar type of problem as
> Gordon's in that it was a flakey relay board connector. Now that I have
> bias, I can tune up the radio.... However, looks like there still might be a
> problem (Darn!). I tuned the radio on 40 meters and got 100 watts out, but
> when I checked the LP current, the needle was pegged. I quickly reduced
> carrier to get the recommended 200 milliamps, but that reduced my output to
> about 5 watts.
>
> Any thoughts on what might be causing this would be appreciated.
>
> Thanks and 73
>
> Steve K7QHU

>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7730. VFO-820 not working with TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-23 23:50:06 UTC
From: ve1idx
Topic: 7730 Message: 7730

Good day gentlemen (and ladies I'm sure). My name is Garth and I just joined the group.Forgive me for asking if this has already been asked before but trying to look through ALL 7000+ post has my eyeballs hanging out. I have just aquired the rig I have been wanting for 25 years.It is a TS-820S in MINT condx with no scratches or rub marks anywhere.It truley looks as if it just came out of the box except for a slightly faded HV scale on the meter.It still has the original 12BY7 driver and S2001A finals which still put out 125 watts on the top of 10m and 150 watts on 80m and 160m.I also got the VFO-820 in similar condx and an MC-50 as well.I did have to adjust the speech processor freq response as it was way too sharp sounding but I still have one little problem and I wonder if anyone can help point me in the right direction.The previous owner plugged the VFO into the radio when the power was on and now the external VFO will not work.The rig will work with the internal VFO while the external unit is plugged in instead of a shorting plug.The VFO dial lights and the VFO and RIT LED's light up with the function switch in the appropriate positions but the radio will not operate from the VFO-820.It appears that the VFO is operating and generating the proper freq. but I am not sure how the radio switches between the two VFO's.I am suspect that the previous owner may have blown the 9v supply as I could only find 6v in the VFO-820.The kids were getting home from school and my eyes were starting to fail so I gave up on it today and thought I would see in anyone has had a similar problem and could give me a fresh starting point. I will follow up on the suspect voltage issue but just how does the radio switch between the internal and external VFO like in a split operation? I love this radio but would love it even more if I could work those DX stations on 20m split. :)

7731. Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 00:13:22 UTC
From: Gordon
Topic: 7629 Message: 7731

Walt,
It has ALWAYS been an 820S :-)

I fixed the Side Tone. Was a Bad resistor. R39 I believe...
Just can't seem to get the Processor to work now. Replaced Q30 but
still NO luck..

Vry 73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> The Vox works from the side tone on CW so no sidetone, not vox. I
just got
> back from Dayton and will see if I can help shortly, now that I see
that it
> is an 820.
>
> Walt N9WB
>

7732. Re: Available 6146 tubes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 01:19:39 UTC
From: Ellen R
Topic: 7726 Message: 7732

Hi Walt,

Those are the 6146s I bought from RF parts. I can't complain. I figured that since they're milspec, they'd last a bit longer. I'm glad I bought them. They make those chinese tubes I bought look like pieces of junk.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> I was at the Dayton Hamfest and talked to RF Parts. They have matched pairs of Sylvania-ECG/Phillips 6146 tubes. These are labeled Phillips 6146 W. These appear to be from Sylvania's last run and are really 6146 B tubes according to RF Parts. They showed me the construction difference between the olde W tubes and the ones that they had. They has extra clamps holding the top mica insulator and a much bigger filament support.
>
> In view of the fact that the later 6146 W tubes were actually B series, and the appearance of these tubes, I believe them. RF Parts warrants them for 1 year and sells them for $59.90 plus shipping for a matched pair (2 tubes for $59.90).
>
> I have not tried them, but if I needed some right now, this would be the way I would go.
>
> http://www.rfparts.com/6146w.html#w
>
> Vy 73, Walt N9WB
>
>
> [Non-text portions of this message have been removed]
>

7733. Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 01:55:19 UTC
From: kc2aup@arrl.net
Topic: 7733 Message: 7733

Speaking of tubes....Someone told me that in the 820S, if you made a change of the 6146 tubes to another number or type, you can get more out of it. Any truth to this? And if so, does the 12BY7 tube have to be changed also?

[Non-text portions of this message have been removed]

7734. Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 02:04:23 UTC
From: Jody Mills
Topic: 7581 Message: 7734

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Jody, don't be so sure that it's just a fuse. That's the first
thing
> to go. If that's all that went, you're lucky. Even then, a blowing
> fuse can be sign of other problems.

Which is why, when I get the right packing materials together, I'm going to send the radio off to Byron Campbell. From what I've read on the Eham reviews page of Byron's repair business, he's an expert at getting these types of radios working again. If he charges me, say, $200 for a complete going over of the radio and getting it working again, I'll still only have a little over $300 into a radio that, from all reports I've heard, is a rock solid performer, albeit not as advanced as today's rigs. But hey, I'm on a budget, so I'll make do.

Thanks for the advice, though!

Sincerely,

Jody

7735. Re: [TS-520_820_530_830] Re: How to tell if I have a TS-520s or TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 02:31:13 UTC
From: The Bandit
Topic: 7581 Message: 7735

Jody:

You may also want to consider Mike Nardeau- N1EQ. He is a genius with Kenwood, and I have sent him my equipment. He is very thorough, and his rates are excellent. He also has great reviews on eham.

Lewis

KD6YTS

Jody Mills <jody.mills@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Jody, don't be so sure that it's just a fuse. That's the first
thing
> to go. If that's all that went, you're lucky. Even then, a blowing
> fuse can be sign of other problems.

Which is why, when I get the right packing materials together, I'm going to send the radio off to Byron Campbell. From what I've read on the Eham reviews page of Byron's repair business, he's an expert at getting these types of radios working again. If he charges me, say, $200 for a complete going over of the radio and getting it working again, I'll still only have a little over $300 into a radio that, from all reports I've heard, is a rock solid performer, albeit not as advanced as today's rigs. But hey, I'm on a budget, so I'll make do.

Thanks for the advice, though!

Sincerely,

Jody

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

7736. Re: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 11:04:57 UTC
From: Walt Breining
Topic: 7629 Message: 7736

Gordon:

On your TS 820, on the IF board, there is a plug labeled IF 1. Pin 6 is labeled CLB. This leads to L5 on the IF board. With the rig keyed up on SSB, there should be voltage there when the processor is on. No voltage when the processor is off. I think it should be around 9V. Please check this.

Please also tell me if you can hear your voice on SSB transmit through the speaker or headphones with the processor off and the Mon switch on. In other words, is the monitor function working on SSB?

Vy 73, Walt N9WB

>
> > > I have my 820 working pretty darn good now. Other then the Speech
> > > processor, everything is working PERFECT, or so I thought. I
> went to
> > > use it on CW today and I get NO sound from the Sidetone. I
> checked VR3
> > > on the AF-AVR unit and it appears to check good. When I key
> the rig,
> > > All I get is a clicking from the speaker.. No Sidetone. Does the
> > > Sidetone come from the FIX-VOX unit or does it come from the
> AF- AVR
> > > unit ? I see in the schematic a circuit labeled ST from the
> FIX-VOX to
> > > the AF_AVF unit.
> > > Any hints?
> > >
> > > 73,
> > > Gordon
> > >

7737. Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 15:59:20 UTC
From: Gordon
Topic: 7629 Message: 7737

Thanks Walt,
I will check that today.
73,
Gorodn

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Gordon:
>
> On your TS 820, on the IF board, there is a plug labeled IF 1. Pin 6 is
> labeled CLB. This leads to L5 on the IF board. With the rig keyed up
on SSB,
> there should be voltage there when the processor is on. No voltage
when the
> processor is off. I think it should be around 9V. Please check this.
>
> Please also tell me if you can hear your voice on SSB transmit
through the
> speaker or headphones with the processor off and the Mon switch on. In
> other words, is the monitor function working on SSB?
>
> Vy 73, Walt N9WB
>
> >
> > > > I have my 820 working pretty darn good now. Other then the
Speech
> > > > processor, everything is working PERFECT, or so I thought. I
> > went to
> > > > use it on CW today and I get NO sound from the Sidetone. I
> > checked VR3
> > > > on the AF-AVR unit and it appears to check good. When I key
> > the rig,
> > > > All I get is a clicking from the speaker.. No Sidetone.
Does the
> > > > Sidetone come from the FIX-VOX unit or does it come from the
> > AF- AVR
> > > > unit ? I see in the schematic a circuit labeled ST from the
> > FIX-VOX to
> > > > the AF_AVF unit.
> > > > Any hints?
> > > >
> > > > 73,
> > > > Gordon
> > > >

>

7738. Re: VFO-820 not working with TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 18:07:29 UTC
From: Daniel
Topic: 7730 Message: 7738

Hi Garth

Welcome to this Group.

Do you have checked the cable between TRX + VFO for some loose cables. I hade the same problem on EVERY connection cable with ny VFO-520S + TS-520S. Always some "brocken" wires.

Daniel, HB9DDS

7739. Re: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 20:55:55 UTC
From: Corky Kirk
Topic: 7721 Message: 7739

Gordon:
> Yes Check R2 and R3. They are both 10 Ohms but are
> in Series so will
> ohm out at 5 ohms in the Circuit.

If R2 and R3 are in series, wouldn't the result be 20
ohms?
73,
Corky W6ORS

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7740. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 20:58:45 UTC
From: Gordon
Topic: 7721 Message: 7740

Yep,
Senior Moment. They are In Parallel. Sorry about that... Duh !!

I swear, I'm losing my mind sometimes. Actually, I put the keyboard
in motion, before I have my brain fully in Gear.
Thanks For catching that mistake.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Corky Kirk <w6ors@...> wrote:
>
>
> Gordon:
> > Yes Check R2 and R3. They are both 10 Ohms but are
> > in Series so will
> > ohm out at 5 ohms in the Circuit.
>
> If R2 and R3 are in series, wouldn't the result be 20
> ohms?
> 73,
> Corky W6ORS
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7741. Re: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 21:04:57 UTC
From: Corky Kirk
Topic: 7721 Message: 7741

Hey Gordon...
We "6'es" have to stick together, eh?
73,
Corky W6ORS

--- Gordon <n6wk@...> wrote:

> Yep,
> Senior Moment. They are In Parallel. Sorry about
> that... Duh !!
>
> I swear, I'm losing my mind sometimes. Actually, I
> put the keyboard
> in motion, before I have my brain fully in Gear.
> Thanks For catching that mistake.
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, Corky
> Kirk <w6ors@...> wrote:
> >
> >
> > Gordon:
> > > Yes Check R2 and R3. They are both 10 Ohms but
> are
> > > in Series so will
> > > ohm out at 5 ohms in the Circuit.
> >
> > If R2 and R3 are in series, wouldn't the result be
> 20
> > ohms?
> > 73,
> > Corky W6ORS
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam
> protection around
> > http://mail.yahoo.com
> >
>
>

>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7742. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 21:23:54 UTC
From: Gordon
Topic: 7721 Message: 7742

Yes,
That's the Truth Corky..
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Corky Kirk <w6ors@...> wrote:
>
> Hey Gordon...
> We "6'es" have to stick together, eh?
> 73,
> Corky W6ORS
>
> --- Gordon <n6wk@...> wrote:
>
> > Yep,
> > Senior Moment. They are In Parallel. Sorry about
> > that... Duh !!
> >
> > I swear, I'm losing my mind sometimes. Actually, I
> > put the keyboard
> > in motion, before I have my brain fully in Gear.
> > Thanks For catching that mistake.
> >
> > 73,
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Corky
> > Kirk <w6ors@> wrote:
> > >
> > >
> > > Gordon:
> > > > Yes Check R2 and R3. They are both 10 Ohms but
> > are
> > > > in Series so will
> > > > ohm out at 5 ohms in the Circuit.
> > >
> > > If R2 and R3 are in series, wouldn't the result be
> > 20
> > > > ohms?
> > > > 73,
> > > > Corky W6ORS
> > >
> > >

> > > _____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam
> > protection around
> > > http://mail.yahoo.com
> > >
> >
> >
> >
> >
> >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

7743. RE: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 21:27:46 UTC
From: Stephen Davis
Topic: 7721 Message: 7743

All,

Thanks Gordon, Walt, and all. You were correct, the problem was with the IP meter resistor. Funny thing, in examining the board initially, I saw the burned resistor, but because of the shape and color that it took, I thought it was a diode! I remember thinking "what is a diode doing there" and meaning to check the schematic later, but never got around to it. After receiving your advice, I was looking for the resistor on the board and finally realized that the "diode" was were R4 should be. I then took a close look at it and realized it was R4 all burned up. All I could do was shake my head and laugh!! Replaced the resistor and the meter started working much better. My bias was low, so I cranked it up to 60mA and now my output is around 100 watts.

The meter still acts "twitchy" and I do not get any motion from the needle in receive mode. It stays all the way to the left (0db) and does not indicate the strength of the incoming signals. Still some more troubleshooting to do. I guess whatever took out the resistor may have done other mischief. For now, I am going to put the covers back on and give it a try on the air. Hooray!!

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Tuesday, May 23, 2006 5:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS820S Output Problem?

Yes Check R2 and R3. They are both 10 Ohms but are in Series so will ohm out at 5 ohms in the Circuit.

Also Check the IP meter resistor R4 it should read 3.3K . Mine was bad. I had to replace it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Check the cathode resistors on the 6146 tubes. They are probably bad. If you need more help doing so write back and I will go into more detail after I recover from Dayton.

>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Stephen Davis
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 23, 2006 2:05 PM
> Subject: [TS-520_820_530_830] TS820S Output Problem?
>
>
> Hello All,
>
> Thanks to this great group of people and to the problem
Gordon resolved
> with his 820S, I now have bias on my TS-820S! Similar type of
problem as
> Gordon's in that it was a flakey relay board connector. Now that
I have
> bias, I can tune up the radio.... However, looks like there still
might be a
> problem (Darn!). I tuned the radio on 40 meters and got 100 watts
out, but
> when I checked the LP current, the needle was pegged. I quickly
reduced
> carrier to get the recommended 200 milliamps, but that reduced my
output to
> about 5 watts.
>
> Any thoughts on what might be causing this would be appreciated.
>
> Thanks and 73
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

--
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com

>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

--
>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7744. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 21:41:26 UTC
From: Gordon
Topic: 7721 Message: 7744

That is GREAT Steve.
The only LOAD on that resistor would be the Meter itself and I would think that the Meter would fry before that resistor would. Mine was Reading way too high in resistance.. Perhaps something shorted out between it and the Meter. I would check the wiring around the Meter select switch. Perhaps there is something there to prevent the S meter from working also.
Keep us Posted.
73,
Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...> wrote:
>
> All,
>
> Thanks Gordon, Walt, and all. You were correct, the problem was with
> the IP meter resistor. Funny thing, in examining the board initially, I saw
> the burned resistor, but because of the shape and color that it took, I
> thought it was a diode! I remember thinking "what is a diode doing there"
> and meaning to check the schematic later, but never got around to it. After
> receiving your advice, I was looking for the resistor on the board and
> finally realized that the "diode" was were R4 should be. I then took a
> close look at it and realized it was R4 all burned up. All I could do was
> shake my head and laugh!! Replaced the resistor and the meter started
> working much better. My bias was low, so I cranked it up to 60mA and now my
> output is around 100 watts.
>
> The meter still acts "twitchy" and I do not get any motion from the
> needle in receive mode. It stays all the way to the left (0db) and does not
> indicate the strength of the incoming signals. Still some more
> troubleshooting to do. I guess whatever took out the resistor may have done
> other mischief. For now, I am going to put the covers back on and give it a
> try on the air. Hooray!!
>
> Thanks

>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
> Sent: Tuesday, May 23, 2006 5:32 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS820S Output Problem?
>
>
> Yes Check R2 and R3. They are both 10 Ohms but are in Series so will
> ohm out at 5 ohms in the Circuit.
>
> Also Check the IP meter resistor R4 it should read 3.3K . Mine was
> bad. I had to replace it.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > Check the cathode resistors on the 6146 tubes. They are probably
> bad. If you need more help doing so write back and I will go into more
> detail after I recover from Dayton.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----
> > From: Stephen Davis
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 2:05 PM
> > Subject: [TS-520_820_530_830] TS820S Output Problem?
> > >
> > >
> > Hello All,
> > >
> > Thanks to this great group of people and to the problem
> Gordon resolved
> > with his 820S, I now have bias on my TS-820S! Similar type of
> problem as
> > Gordon's in that it was a flakey relay board connector. Now that
> I have
> > bias, I can tune up the radio.... However, looks like there still
> might be a
> > problem (Darn!). I tuned the radio on 40 meters and got 100 watts
> out, but
> > when I checked the LP current, the needle was pegged. I quickly
> reduced
> > carrier to get the recommended 200 milliamps, but that reduced my

> output to
> > about 5 watts.
> >
> > Any thoughts on what might be causing this would be
appreciated.
> >
> > Thanks and 73
> >
> > Steve K7QHU
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
>

> --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
>

> --
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>

> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

7745. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 21:42:37 UTC
From: Gordon
Topic: 7721 Message: 7745

Steve,
If you have the AGC "OFF" the S meter will NOT show any movement.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis"
<sdavis@...> wrote:
>
> All,
>
> Thanks Gordon, Walt, and all. You were correct, the problem
was with
> the IP meter resistor. Funny thing, in examining the board
initially, I saw
> the burned resistor, but because of the shape and color that it took, I
> thought it was a diode! I remember thinking "what is a diode doing
there"
> and meaning to check the schematic later, but never got around to
it. After
> receiving your advice, I was looking for the resistor on the board and
> finally realized that the "diode" was were R4 should be. I then took a
> close look at it and realized it was R4 all burned up. All I could
do was
> shake my head and laugh!! Replaced the resistor and the meter started
> working much better. My bias was low, so I cranked it up to 60mA
and now my
> output is around 100 watts.
>
> The meter still acts "twitchy" and I do not get any motion from the
> needle in receive mode. It stays all the way to the left (0db) and
does not
> indicate the strength of the incoming signals. Still some more
> troubleshooting to do. I guess whatever took out the resistor may
have done
> other mischief. For now, I am going to put the covers back on and
give it a
> try on the air. Hooray!!
>
> Thanks
>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com

> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
> Sent: Tuesday, May 23, 2006 5:32 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS820S Output Problem?
>
>
> Yes Check R2 and R3. They are both 10 Ohms but are in Series so will
> ohm out at 5 ohms in the Circuit.
>
> Also Check the IP meter resistor R4 it should read 3.3K . Mine was
> bad. I had to replace it.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > Check the cathode resistors on the 6146 tubes. They are probably
> bad. If you need more help doing so write back and I will go into more
> detail after I recover from Dayton.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----
> > From: Stephen Davis
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 2:05 PM
> > Subject: [TS-520_820_530_830] TS820S Output Problem?
> >
> >
> > Hello All,
> >
> > Thanks to this great group of people and to the problem
> Gordon resolved
> > with his 820S, I now have bias on my TS-820S! Similar type of
> problem as
> > Gordon's in that it was a flakey relay board connector. Now that
> I have
> > bias, I can tune up the radio.... However, looks like there still
> might be a
> > problem (Darn!). I tuned the radio on 40 meters and got 100 watts
> out, but
> > when I checked the LP current, the needle was pegged. I quickly
> reduced
> > carrier to get the recommended 200 milliamps, but that reduced my
> output to
> > about 5 watts.
> >
> > Any thoughts on what might be causing this would be
appreciated.
> >

> > Thanks and 73
> >
> > Steve K7QHU
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
>

> --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
>

> --
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> Craft

>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

7746. RE: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 22:22:09 UTC
From: Stephen Davis
Topic: 7721 Message: 7746

Gordon,

The AGC is on, but still no go. Yeah, the resistor was burned and thus a short rather than an open. After I use the radio tonight, I will take another look around the meter circuitry.

Thanks again for all your help.

Steve

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Wednesday, May 24, 2006 3:43 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS820S Output Problem?

Steve,
If you have the AGC "OFF" the S meter will NOT show any movement.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...> wrote:
>
> All,
>
> Thanks Gordon, Walt, and all. You were correct, the problem was with
> the IP meter resistor. Funny thing, in examining the board initially, I saw
> the burned resistor, but because of the shape and color that it took, I
> thought it was a diode! I remember thinking "what is a diode doing there"
> and meaning to check the schematic later, but never got around to it. After
> receiving your advice, I was looking for the resistor on the board and
> finally realized that the "diode" was were R4 should be. I then took a
> close look at it and realized it was R4 all burned up. All I could do was
> shake my head and laugh!! Replaced the resistor and the meter started
> working much better. My bias was low, so I cranked it up to 60mA and now my
> output is around 100 watts.
>
> The meter still acts "twitchy" and I do not get any motion from the

> needle in receive mode. It stays all the way to the left (0db) and
does not
> indicate the strength of the incoming signals. Still some more
> troubleshooting to do. I guess whatever took out the resistor may
have done
> other mischief. For now, I am going to put the covers back on and
give it a
> try on the air. Hooray!!
>
> Thanks
>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
> Sent: Tuesday, May 23, 2006 5:32 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS820S Output Problem?
>
>
> Yes Check R2 and R3. They are both 10 Ohms but are in Series so will
> ohm out at 5 ohms in the Circuit.
>
> Also Check the IP meter resistor R4 it should read 3.3K . Mine was
> bad. I had to replace it.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > Check the cathode resistors on the 6146 tubes. They are probably
> bad. If you need more help doing so write back and I will go into more
> detail after I recover from Dayton.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----
> > From: Stephen Davis
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 2:05 PM
> > Subject: [TS-520_820_530_830] TS820S Output Problem?
> >
> >
> > Hello All,
> >
> > Thanks to this great group of people and to the problem
> Gordon resolved
> > with his 820S, I now have bias on my TS-820S! Similar type of

> problem as
> > Gordon's in that it was a flakey relay board connector. Now that
> I have
> > bias, I can tune up the radio.... However, looks like there still
> might be a
> > problem (Darn!). I tuned the radio on 40 meters and got 100 watts
> out, but
> > when I checked the LP current, the needle was pegged. I quickly
> reduced
> > carrier to get the recommended 200 milliamps, but that reduced my
> output to
> > about 5 watts.
> >
> > Any thoughts on what might be causing this would be
appreciated.
> >
> > Thanks and 73
> >
> > Steve K7QHU
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
>

> --
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
>

> --
> >
> >
> >

> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service

> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

_____

[Non-text portions of this message have been removed]

7747. Re: Side Tone Circuit in TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 22:34:39 UTC
From: Gordon
Topic: 7629 Message: 7747

Hi Walt,
Ok, I checked IF 1 Pin 6. When I key up on SSB with the Processor
on, I get 9 volts on this wire and 0 volts when it is Off. Also, Yes,
I can hear myself when The Minoitor is On .

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Gordon:
>
> On your TS 820, on the IF board, there is a plug labeled IF 1. Pin 6 is
> labeled CLB. This leads to L5 on the IF board. With the rig keyed up
on SSB,
> there should be voltage there when the processor is on. No voltage
when the
> processor is off. I think it should be around 9V. Please check this.
>
> Please also tell me if you can hear your voice on SSB transmit
through the
> speaker or headphones with the processor off and the Mon switch on. In
> other words, is the monitor function working on SSB?
>
> Vy 73, Walt N9WB
>
> >
> > > > I have my 820 working pretty darn good now. Other then the
Speech
> > > > processor, everything is working PERFECT, or so I thought. I
> > went to
> > > > use it on CW today and I get NO sound from the Sidetone. I
> > checked VR3
> > > > on the AF-AVR unit and it appears to check good. When I key
> > the rig,
> > > > All I get is a clicking from the speaker.. No Sidetone.
Does the
> > > > Sidetone come from the FIX-VOX unit or does it come from the
> > AF- AVR
> > > > unit ? I see in the schematic a circuit labeled ST from the
> > FIX-VOX to
> > > > the AF_AVF unit.
> > > > Any hints?
> > > >

> > > > 73,
> > > > Gordon
> > > >
>

7748. Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-24 22:36:26 UTC
From: Gordon
Topic: 7721 Message: 7748

Steve,
That's we are ALL here for... To help one another.
Good Luck and let me know if there is More I can do in any way.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis"
<sdavis@...> wrote:
>
> Gordon,
>
> The AGC is on, but still no go. Yeah, the resistor was burned
and thus
> a short rather than an open. After I use the radio tonight, I will take
> another look around the meter circuitry.
>
> Thanks again for all your help.
>
> Steve
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
> Sent: Wednesday, May 24, 2006 3:43 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS820S Output Problem?
>
>
> Steve,
> If you have the AGC "OFF" the S meter will NOT show any movement.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis"
> <sdavis@> wrote:
> >
> > All,
> >
> > Thanks Gordon, Walt, and all. You were correct, the problem
> was with
> > the IP meter resistor. Funny thing, in examining the board
> initially, I saw
> > the burned resistor, but because of the shape and color that it
took, I

> > thought it was a diode! I remember thinking "what is a diode doing
> there"
> > and meaning to check the schematic later, but never got around to
> it. After
> > receiving your advice, I was looking for the resistor on the board and
> > finally realized that the "diode" was were R4 should be. I then
took a
> > close look at it and realized it was R4 all burned up. All I could
> do was
> > shake my head and laugh!! Replaced the resistor and the meter started
> > working much better. My bias was low, so I cranked it up to 60mA
> and now my
> > output is around 100 watts.
> >
> > The meter still acts "twitchy" and I do not get any motion
from the
> > needle in receive mode. It stays all the way to the left (0db) and
> does not
> > indicate the strength of the incoming signals. Still some more
> > troubleshooting to do. I guess whatever took out the resistor may
> have done
> > other mischief. For now, I am going to put the covers back on and
> give it a
> > try on the air. Hooray!!
> >
> > Thanks
> >
> > Steve K7QHU
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
> > Sent: Tuesday, May 23, 2006 5:32 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS820S Output Problem?
> >
> >
> > Yes Check R2 and R3. They are both 10 Ohms but are in Series so will
> > ohm out at 5 ohms in the Circuit.
> >
> > Also Check the IP meter resistor R4 it should read 3.3K . Mine was
> > bad. I had to replace it.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > Check the cathode resistors on the 6146 tubes. They are probably

> > bad. If you need more help doing so write back and I will go into more
> > detail after I recover from Dayton.
> > >
> > > Vy 73, Walt N9WB
> > > ----- Original Message -----
> > > From: Stephen Davis
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, May 23, 2006 2:05 PM
> > > Subject: [TS-520_820_530_830] TS820S Output Problem?
> > > >
> > > >
> > > Hello All,
> > > >
> > > Thanks to this great group of people and to the problem
> > Gordon resolved
> > > with his 820S, I now have bias on my TS-820S! Similar type of
> > problem as
> > > Gordon's in that it was a flakey relay board connector. Now that
> > I have
> > > bias, I can tune up the radio.... However, looks like there still
> > might be a
> > > problem (Darn!). I tuned the radio on 40 meters and got 100 watts
> > out, but
> > > when I checked the LP current, the needle was pegged. I quickly
> > reduced
> > > carrier to get the recommended 200 milliamps, but that reduced my
> > output to
> > > about 5 watts.
> > > >
> > > Any thoughts on what might be causing this would be
> appreciated.
> > > >
> > > Thanks and 73
> > > >
> > > Steve K7QHU
> > > >
> > > >
> > > [Non-text portions of this message have been removed]
> > > >
> > > >
> > > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> > > >
> > > >
> > > >
> > >
> >

> > --
> > > YAHOO! GROUPS LINKS

> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service.
> > >
> > >
> > >
> > >
>

> > --
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> >
> >
> > SPONSORED LINKS
> > Ham
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > &k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> > 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> > Craft
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > &k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> > &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
> > Hobby
> >
> <http://groups.yahoo.com/gads?t=ms
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> > &k=Hobby+and+craft+supply&w1=Ham+radio&w2=
> >

>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> > and craft supply
> >
> > _____
> >
> > YAHOO! GROUPS LINKS
> >
> >
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
> >
> >
> > * To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> >
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service
> > <http://docs.yahoo.com/info/terms/> .
> >
> >
> > _____
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
> SPONSORED LINKS
> Ham
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
> 3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
> Craft
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
> &w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby

> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
>
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
> and craft supply
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been removed]
>

7749. New Member Here

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 00:38:01 UTC
From: w6aws
Topic: 7749 Message: 7749

Greetings to all,

I am new here. I am scheduled to take both elements 1 and 3 on the 17th of June.

I am currently putting together a TS-830s station together. Having fun in the search for the components.

Still need an SP-230 and VFO-230. If anyone here has either and want's to part with em, let me know.

Looking forward to learning alot about the TS-830s and accessories on this site. I do enjoy the post's.

73,

Andy
W6AWS

7750. Re: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 00:53:31 UTC
From: Charles Mortimer
Topic: 7721 Message: 7750

crikey you are not alone either
the over 60 club has just been born
Charles g1fak

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, May 25, 2006 5:23 AM
Subject: [TS-520_820_530_830] Re: TS820S Output Problem?

> Yes,
> That's the Truth Corky..
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, Corky Kirk <w6ors@...> wrote:
>>
>> Hey Gordon...
>> We "6'es" have to stick together, eh?
>> 73,
>> Corky W6ORS
>>
>> --- Gordon <n6wk@...> wrote:
>>
>> > Yep,
>> > Senior Moment. They are In Parallel. Sorry about
>> > that... Duh !!
>> >
>> > I swear, I'm losing my mind sometimes. Actually, I
>> > put the keyboard
>> > in motion, before I have my brain fully in Gear.
>> > Thanks For catching that mistake.
>> >
>> > 73,
>> > Gordon
>> > N6WK
>> >
>> > --- In TS-520_820_530_830@yahoogroups.com, Corky
>> > Kirk <w6ors@> wrote:
>> > >
>> > >
>> > > Gordon:
>> > > > Yes Check R2 and R3. They are both 10 Ohms but
>> > are

>> > > > in Series so will
>> > > > ohm out at 5 ohms in the Circuit.
>> > >
>> > > If R2 and R3 are in series, wouldn't the result be
>> > 20
>> > > ohms?
>> > > 73,
>> > > Corky W6ORS
>> > >
>> > >
>> > > _____
>> > > Do You Yahoo!?
>> > > Tired of spam? Yahoo! Mail has the best spam
>> > protection around
>> > > http://mail.yahoo.com
>> > >
>> >
>> >
>> >
>> >
>> >
>>
>>
>> _____
>> Do You Yahoo!?
>> Tired of spam? Yahoo! Mail has the best spam protection around
>> http://mail.yahoo.com
>>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7751. Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 02:52:49 UTC
From: Gordon
Topic: 7751 Message: 7751

Now that I have resuurected this old 820S, I need to repaint the surface rusted cabinet. I'll probably get the case glass beaded and then repaint it to look as good as new (I hope)
Anyone know Where I can Get the EXACT color to paint it with? I think I saw some Kenwood paint on ebay last month.. Is that stuff any good ??
I wish the case on this 820 was half as good as the Original paint on my 830 and I wouldn't have to worry about it.

BTW, Just ordered a New TS-2000S today. I should have it Tomorrow so I can play in the WPX contest with it. I'm Excited!!
73,
Gordon

7752. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 05:42:33 UTC
From: valuedprofile
Topic: 7751 Message: 7752

I'd say take the panel off and hand it to the paint matcher at a Home Depot (or such). They should be able to get an exact match.

f

7753. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 14:09:02 UTC
From: Ellen R
Topic: 7751 Message: 7753

A TS-2000. Now I really am going to get nuked in the WPX!

Ellen - AF9J

-- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Now that I have resuurected this old 820S, I need to repaint the
> surface rusted cabinet. I'll probably get the case glass beaded and
> then repaint it to look as good as new (I hope)
> Anyone know Where I can Get the EXACT color to paint it with? I think
> I saw some Kenwood paint on ebay last month.. Is that stuff any
good ??
> I wish the case on this 820 was half as good as the Original paint on
> my 830 and I wouldn't have to worry about it.
>
> BTW, Just ordered a New TS-2000S today. I should have it Tomorrow so I
> can play in the WPX contest with it. I'm Excited!!
> 73,
> Gordon
>

7754. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 16:39:54 UTC
From: Gordon
Topic: 7751 Message: 7754

Ellen, I'm a N6 not very rare. You however have a Huge advantage in
that department An AF9 Yes, That's a good one !

So, I need a new Rig and more Power with a Bigger Antenna just to
level the playing field ;-)

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> A TS-2000. Now I really am going to get nuked in the WPX!
>
> Ellen - AF9J
>
> -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Now that I have resuurected this old 820S, I need to repaint the
> > surface rusted cabinet. I'll probably get the case glass beaded and
> > then repaint it to look as good as new (I hope)
> > Anyone know Where I can Get the EXACT color to paint it with? I think
> > I saw some Kenwood paint on ebay last month.. Is that stuff any
> good ??
> > I wish the case on this 820 was half as good as the Original paint on
> > my 830 and I wouldn't have to worry about it.
> >
> > BTW, Just ordered a New TS-2000S today. I should have it Tomorrow so I
> > can play in the WPX contest with it. I'm Excited!!
> > 73,
> > Gordon
> >
>

7755. Re: Replacing RL1 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 16:40:09 UTC
From: belbert2002
Topic: 7715 Message: 7755

This matter is now completely resolved. It turns out that the Remote connection to the linear works after all. I was confused by the manner in which RL1 provides contact closure - which is not a clean contact closure but rather runs through various circuit components before reaching the Remote connector on the back. I does key the linear effectively, although I would look into using an aux circuit as suggested by others.

My relay problem was bent contacts on RL1, which happened when I removed the plastic cover. By removing RL1 from the board (thanks Bill - K5GCW - that Radio Shack solder sucker did the trick) I could then remove the plastic base and carefully bend the reeds into place. Upon resoldering the relay, things worked perfectly.

The rig works wonderfully on SSB with the linear and there is no need to use the ALC. I checked this with my IC 756 PRO2 on audio and the spectrum scope.

73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...> wrote:
>
> Bill, thanks. I'll visit RadioShack for that gadget (I've got the old
> fashioned solder sucker).
>
> I followed that procedure with DeOxit and the card, but it was a
> disaster for me. I apparently either spread the reeds too far or
> possibily melted some of the plastic with the solvent.
>
> 73, Bruce
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
> <k5gcw@> wrote:
> >
> > Hi Bruce. When I removed the bandswitch wafers from their PC
> board, I used a combination of a solder sucker, and then the wick
> type of solder remover. It worked very well. My solder sucker was a
> gift from my wife, and a very simple one from Radio Shack. The tip
> gets hot to melt the solder, there is a round hole in the hot tip
> that slips over the wire end, and there is a simple squeeze bulb to
> suck out the solder. Then, in some cases, I used the wick type of
> remover with my solder iron to remove some remaining solder. Some of

> the connections just fell out of the hole, and some of them had to
be
> gently pushed to break them loose. With some patience you should
be
> able to remove the relay with no damage to the board.
> >
> > I also experienced problems with the RL1 relay, but was able to
> cure it by removing the plastic cover and using DeOxit on a thin
> piece of stiff paper to slip between the contacts and clean them.
> >
> > Good luck with your project.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: belbert2002
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 9:03 AM
> > Subject: [TS-520_820_530_830] Replacing RL1 Relay
> >
> >
> > I'm looking for advice on how to replace the RL1 relay on the
AF
> board
> > of the TS-830. I've ordered a new one from East Coast
Transistor,
> and
> > was told it would take 3 weeks for the relay to get to me.
> >
> > The relay is soldered into the board at several places. So, I
> guess I
> > need to heat each connection and then suck the solder out. I
> would then
> > remove the relay as one piece. There is the possibility of
> harming the
> > board or other components.
> >
> > Comments and suggestions would be appreciated. 73, Bruce K6ZB
> >
> >
> >
> >
> >
> >
> > --
--
> ----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >

> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > --
--
> ----------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

7756. Re: [TS-520_820_530_830] Re: Replacing RL1 Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 17:28:43 UTC
From: Bill Scurlock
Topic: 7715 Message: 7756

Bruce, glad to hear your success story.

Bill, K5GCW
----- Original Message -----
From: belbert2002
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, May 25, 2006 11:40 AM
Subject: [TS-520_820_530_830] Re: Replacing RL1 Relay

This matter is now completely resolved. It turns out that the Remote connection to the linear works after all. I was confused by the manner in which RL1 provides contact closure - which is not a clean contact closure but rather runs through various circuit components before reaching the Remote connector on the back. I does key the linear effectively, although I would look into using an aux circuit as suggested by others.

My relay problem was bent contacts on RL1, which happened when I removed the plastic cover. By removing RL1 from the board (thanks Bill - K5GCW - that Radio Shack solder sucker did the trick) I could then remove the plastic base and carefully bend the reeds into place. Upon resoldering the relay, things worked perfectly.

The rig works wonderfully on SSB with the linear and there is no need to use the ALC. I checked this with my IC 756 PRO2 on audio and the spectrum scope.

73, Bruce K6ZB

--- In TS-520_820_530_830@yahoogroups.com, "belbert2002" <k6zb@...>
wrote:
>
> Bill, thanks. I'll visit RadioShack for that gadget (I've got the
old
> fashioned solder sucker).
>
> I followed that procedure with DeOxit and the card, but it was a
> disaster for me. I apparently either spread the reeds too far or
> possibily melted some of the plastic with the solvent.
>
> 73, Bruce
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
> <k5gcw@> wrote:
> >
> > Hi Bruce. When I removed the bandswitch wafers from their PC

> board, I used a combination of a solder sucker, and then the wick
> type of solder remover. It worked very well. My solder sucker was
a
> gift from my wife, and a very simple one from Radio Shack. The tip
> gets hot to melt the solder, there is a round hole in the hot tip
> that slips over the wire end, and there is a simple squeeze bulb to
> suck out the solder. Then, in some cases, I used the wick type of
> remover with my solder iron to remove some remaining solder. Some
of
> the connections just fell out of the hole, and some of them had to
be
> gently pushed to break them loose. With some patience you should
be
> able to remove the relay with no damage to the board.
> >
> > I also experienced problems with the RL1 relay, but was able to
> cure it by removing the plastic cover and using DeOxit on a thin
> piece of stiff paper to slip between the contacts and clean them.
> >
> > Good luck with your project.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: belbert2002
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 9:03 AM
> > Subject: [TS-520_820_530_830] Replacing RL1 Relay
> >
> >
> > I'm looking for advice on how to replace the RL1 relay on the
AF
> board
> > of the TS-830. I've ordered a new one from East Coast
Transistor,
> and
> > was told it would take 3 weeks for the relay to get to me.
> >
> > The relay is soldered into the board at several places. So, I
> guess I
> > need to heat each connection and then suck the solder out. I
> would then
> > remove the relay as one piece. There is the possibility of
> harming the
> > board or other components.
> >
> > Comments and suggestions would be appreciated. 73, Bruce K6ZB
> >
> >
> >
> >

> >
> >
> > --
--
> ----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > --
--
> ----------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7757. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 21:55:55 UTC
From: Ellen R
Topic: 7751 Message: 7757

Agreed, but you'll still have me in the antenna & power department.
I sure hope 10 & 15 open up. Because my antenna really plays on
those bands.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ellen, I'm a N6 not very rare. You however have a Huge advantage
in
> that department An AF9 Yes, That's a good one !
>
> So, I need a new Rig and more Power with a Bigger Antenna just to
> level the playing field ;-)
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > A TS-2000. Now I really am going to get nuked in the WPX!
> >
> > Ellen - AF9J
> >
> > -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Now that I have resuurected this old 820S, I need to repaint the
> > > surface rusted cabinet. I'll probably get the case glass beaded
and
> > > then repaint it to look as good as new (I hope)
> > > Anyone know Where I can Get the EXACT color to paint it with? I
think
> > > I saw some Kenwood paint on ebay last month.. Is that stuff any
> > good ??
> > > I wish the case on this 820 was half as good as the Original
paint on
> > > my 830 and I wouldn't have to worry about it.
> > >
> > > BTW, Just ordered a New TS-2000S today. I should have it
Tomorrow so I
> > > can play in the WPX contest with it. I'm Excited!!
> > > 73,
> > > Gordon
> > >

> >
>

7758. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 21:58:50 UTC
From: Gordon
Topic: 7751 Message: 7758

I hope ALL the bands open up. Actually, I hope I can run into you.
That would be really cool. I'm waiting for the UPS guy right now.
So anyone know where to get some Exact Matching Paint?
I don't think Home Depot is going to have the EXACT kenwood match in a
spray can hihi
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Agreed, but you'll still have me in the antenna & power department.
> I sure hope 10 & 15 open up. Because my antenna really plays on
> those bands.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ellen, I'm a N6 not very rare. You however have a Huge advantage
> in
> > that department An AF9 Yes, That's a good one !
> >
> > So, I need a new Rig and more Power with a Bigger Antenna just to
> > level the playing field ;-)
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > A TS-2000. Now I really am going to get nuked in the WPX!
> > >
> > > Ellen - AF9J
> > >
> > > -- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Now that I have resuurected this old 820S, I need to repaint the
> > > > surface rusted cabinet. I'll probably get the case glass beaded
> and
> > > > then repaint it to look as good as new (I hope)
> > > > Anyone know Where I can Get the EXACT color to paint it with? I
> think
> > > > I saw some Kenwood paint on ebay last month.. Is that stuff any

> > > good ??
> > > > I wish the case on this 820 was half as good as the Original
> paint on
> > > > > my 830 and I wouldn't have to worry about it.
> > > > >
> > > > > BTW, Just ordered a New TS-2000S today. I should have it
> Tomorrow so I
> > > > > can play in the WPX contest with it. I'm Excited!!
> > > > > 73,
> > > > > Gordon
> > > > >
> > > >
> > >
>

7759. Re: [TS-520_820_530_830] Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 22:19:01 UTC
From: gjcollins@cox.net
Topic: 7751 Message: 7759

Hello,

My TS-820S and accessories (speaker, VFO and transverters) all have a textured finish. It would seem that matching the color is fairly easy but can the texture of the finish be matched?

Thanks,

George KC1V
----- Original Message -----
From: valuedprofile
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, May 25, 2006 1:42 AM
Subject: [TS-520_820_530_830] Re: Original Paint

I'd say take the panel off and hand it to the paint matcher at a Home
Depot (or such). They should be able to get an exact match.

f

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.7.1/348 - Release Date: 5/25/2006

[Non-text portions of this message have been removed]

7760. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 23:15:25 UTC
From: Gordon
Topic: 7751 Message: 7760

You have a VERY good point there. I'll have to ask my buddy that is a professional Painter for cars if he can tell HOW to get the Texture effect.
Thanks for bringing that up. I also noticed that the Texture only seems to be on the Outside of the case. The inside is the same color and smooth in appearance.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, <gjcollins@...> wrote:
>
> Hello,
>
> My TS-820S and accessories (speaker, VFO and transverters) all have a textured finish. It would seem that matching the color is fairly easy but can the texture of the finish be matched?
>
> Thanks,
>
> George KC1V
> ----- Original Message -----
> From: valuedprofile
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, May 25, 2006 1:42 AM
> Subject: [TS-520_820_530_830] Re: Original Paint
>
>
> I'd say take the panel off and hand it to the paint matcher at a Home
> Depot (or such). They should be able to get an exact match.
>
> f
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@...m
>

> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.7.1/348 - Release Date:
5/25/2006
>
>
> [Non-text portions of this message have been removed]
>

7761. Replacing TS-820 Filter Capacitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-25 23:11:25 UTC
From: Stephen Davis
Topic: 7761 Message: 7761

Hello All,

I ordered replacement filter capacitors for my TS-530. They have arrived, but they are quiet a bit smaller in diameter than the originals. Small enough to drop through the mounting holes. Also I don't think the clamps will fit them. Does anyone have any suggestions on how to mount these? I scoured the net for physically larger capacitors of the same capacitance and voltage but could not find any. As a solution to the problem, I was thinking of trying to find a washer big enough for the capacitor to fit through at Home Depot. I would glue the washer to the chassis, slip the capacitor in and secure it with the clamp. Sounds kinda kludgey, but I think it might work. Any thoughts?

The next challenge is that the original capacitor had two prongs for soldering at each terminal. The replacement only has one prong. It is going to be tough to solder everything to the single terminals. Any method for extending the terminals? I thought of soldering an extension wire, but I think that would come unsoldered from the terminal as I try to solder the components and connecting wires to it. Seems like all of this is prone to error. I have limited experience in troubleshooting and repairing radios so any suggestions would be welcome.

I sure am glad this group exists!

Steve K7QHU

[Non-text portions of this message have been removed]

7762. Re: [TS-520_820_530_830] Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 02:48:40 UTC
From: Charles Mortimer
Topic: 7751 Message: 7762

textured finish
that can be reproduced but not with the handy spray cans
it is known as orange peel have it done professionally at the local car
spray shopand give them a sample of what you want done
and also it will haft to have a matting agent added to the paint other wise
you will land up with high gloss what creates the orange peel affect is
the paint not been thinned down quite as much what happens when you spray
it on the paint starts to dry before it has completely flattened out
leaving that orange peel affect do not use pressure pack sprays if you
want that orange peel affect the paint in the cans is too thin to
reproduce the affect
Charles vk6ycj
----- Original Message -----
From: <gjcollins@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, May 26, 2006 6:19 AM
Subject: Re: [TS-520_820_530_830] Re: Original Paint

Hello,

My TS-820S and accessories (speaker, VFO and transverters) all have a
textured finish. It would seem that matching the color is fairly easy but
can the texture of the finish be matched?

Thanks,

George KC1V
----- Original Message -----
From: valuedprofile
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, May 25, 2006 1:42 AM
Subject: [TS-520_820_530_830] Re: Original Paint

I'd say take the panel off and hand it to the paint matcher at a Home
Depot (or such). They should be able to get an exact match.

f

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.7.1/348 - Release Date: 5/25/2006

[Non-text portions of this message have been removed]

Yahoo! Groups Links

7763. Re: [TS-520_820_530_830] Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 02:51:29 UTC
From: Charles Mortimer
Topic: 7751 Message: 7763

Gordon
give the whole job to your buddy he will sort it for you and tell him you
will require a matting agent added at the same time
Charles vk6ycj
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, May 26, 2006 7:15 AM
Subject: [TS-520_820_530_830] Re: Original Paint

> You have a VERY good point there. I'll have to ask my buddy that is a
> professional Painter for cars if he can tell HOW to get the Texture
> effect.
> Thanks for bringing that up. I also noticed that the Texture only
> seems to be on the Outside of the case. The inside is the same color
> and smooth in appearance.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, <gjcollins@...> wrote:
>>
>> Hello,
>>
>> My TS-820S and accessories (speaker, VFO and transverters) all have
> a textured finish. It would seem that matching the color is fairly
> easy but can the texture of the finish be matched?
>>
>> Thanks,
>>
>> George KC1V
>> ----- Original Message -----
>> From: valuedprofile
>> To: TS-520_820_530_830@yahoogroups.com
>> Sent: Thursday, May 25, 2006 1:42 AM
>> Subject: [TS-520_820_530_830] Re: Original Paint
>>
>>
>> I'd say take the panel off and hand it to the paint matcher at a Home
>> Depot (or such). They should be able to get an exact match.
>>
>> f
>>
>>
>>
>>

>>
>>
> --
>> YAHOO! GROUPS LINKS
>>
>> a.. Visit your group "TS-520_820_530_830" on the web.
>>
>> b.. To unsubscribe from this group, send an email to:
>> TS-520_820_530_830-unsubscribe@yahoogroups.com
>>
>> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>>
>>
>>
> --
>>
>>
>>
>>
>>
> --
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG Free Edition.
>> Version: 7.1.394 / Virus Database: 268.7.1/348 - Release Date:
> 5/25/2006
>>
>>
>> [Non-text portions of this message have been removed]
>>
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

7764. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 03:20:08 UTC
From: valuedprofile
Topic: 7751 Message: 7764

Unless you're hoping to maintain stock color for those that like it
should you sell it, why not be a little creative? I would think, oh,
camouflaged or even a copper infused paint (to futher shield rf in and
out). Since the rigs weigh so much, maybe a stone texture paint!

hi hi

f

--- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
<mortimer@...> wrote:
>
> Gordon
> give the whole job to your buddy he will sort it for you and tell
him you
> will require a matting agent added at the same time

7765. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 03:22:28 UTC
From: Gordon
Topic: 7751 Message: 7765

Thanks Charles,
I think that might just be the Best suggestion yet.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
<mortimer@...> wrote:
>
> Gordon
> give the whole job to your buddy he will sort it for you and tell
him you
> will require a matting agent added at the same time
> Charles vk6ycj
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, May 26, 2006 7:15 AM
> Subject: [TS-520_820_530_830] Re: Original Paint
>
>
> > You have a VERY good point there. I'll have to ask my buddy that is a
> > professional Painter for cars if he can tell HOW to get the Texture
> > effect.
> > Thanks for bringing that up. I also noticed that the Texture only
> > seems to be on the Outside of the case. The inside is the same color
> > and smooth in appearance.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, <gjcollins@> wrote:
> >>
> >> Hello,
> >>
> >> My TS-820S and accessories (speaker, VFO and transverters) all have
> > a textured finish. It would seem that matching the color is fairly
> > easy but can the texture of the finish be matched?
> >>
> >> Thanks,
> >>
> >> George KC1V
> >> ----- Original Message -----
> >> From: valuedprofile
> >> To: TS-520_820_530_830@yahoogroups.com
> >> Sent: Thursday, May 25, 2006 1:42 AM

> >> Subject: [TS-520_820_530_830] Re: Original Paint
> >>
> >>
> >> I'd say take the panel off and hand it to the paint matcher at
a Home
> >> Depot (or such). They should be able to get an exact match.
> >>
> >> f
> >>
> >>
> >>

> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>

7766. Re: [TS-520_820_530_830] Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 04:49:12 UTC
From: Charles Mortimer
Topic: 7751 Message: 7766

from Charles
Gordon "" you welcome glad to be of some help your buddy will know what to
do
Charles vk6ycj

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, May 26, 2006 11:22 AM
Subject: [TS-520_820_530_830] Re: Original Paint

Thanks Charles,
I think that might just be the Best suggestion yet.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
<mortimer@...> wrote:
>
> Gordon
> give the whole job to your buddy he will sort it for you and tell
him you
> will require a matting agent added at the same time
> Charles vk6ycj
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, May 26, 2006 7:15 AM
> Subject: [TS-520_820_530_830] Re: Original Paint
>
>
> > You have a VERY good point there. I'll have to ask my buddy that is a
> > professional Painter for cars if he can tell HOW to get the Texture
> > effect.
> > Thanks for bringing that up. I also noticed that the Texture only
> > seems to be on the Outside of the case. The inside is the same color
> > and smooth in appearance.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, <gjcollins@> wrote:
> >>
> >> Hello,
> >>
> >> My TS-820S and accessories (speaker, VFO and transverters) all have

> > a textured finish. It would seem that matching the color is fairly
> > easy but can the texture of the finish be matched?
> >>
> >> Thanks,
> >>
> >> George KC1V
> >> ----- Original Message -----
> >> From: valuedprofile
> >> To: TS-520_820_530_830@yahoogroups.com
> >> Sent: Thursday, May 25, 2006 1:42 AM
> >> Subject: [TS-520_820_530_830] Re: Original Paint
> >>
> >>
> >> I'd say take the panel off and hand it to the paint matcher at
a Home
> >> Depot (or such). They should be able to get an exact match.
> >>
> >> f
> >>
> >>
> >>
> >>
> >>
> >>
> > >

> >> YAHOO! GROUPS LINKS
> >>
> >> a.. Visit your group "TS-520_820_530_830" on the web.
> >>
> >> b.. To unsubscribe from this group, send an email to:
> >> TS-520_820_530_830-unsubscribe@yahoogroups.com
> >>
> >> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service.
> >>
> >>
> >>
> > >

> >>
> >>
> >>
> >>
> >>
> > >

> >>
> >>
> >> No virus found in this incoming message.

> >> Checked by AVG Free Edition.
> >> Version: 7.1.394 / Virus Database: 268.7.1/348 - Release Date:
> > 5/25/2006
> >>
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

Yahoo! Groups Links

7767. Re: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 10:47:05 UTC
From: Walt Breining
Topic: 7767 Message: 7767

Re: Speech Processor in the TS-820 s

Gordon:
I think I understood that you got the sidetone working but the speech processor is still dead. You get transmit on SSB with the processor off but loose it when the processor is on no mater how high you turn the compression level control.

The Processor circuit is on the IF board.
This processor is a RF processor as it does the compressing at an RF frequency rather than a audio frequency. It does, not work in the IF but instead converts the audio to a sideband signal at a frequency of 455 kHz, compresses it as RF and then converts it back to audio. The theory is that by doing this, the 455 kHz filters will remove the harmonic distortion caused by hard limiting. When the processor is on, Q-22 amplifies the audio and drives a balanced modulator. For the balanced modulator to function it must be supplied a 455 kHz carrier signal. This comes from carrier oscillator Q-28 and Q-29. The 455 kHz carrier signal is on TP-1 and is applied to the balanced modulator through C-130. It is also supplied to a product detector, by way of C-133. After this process is complete, the product detector returns the signal to an audio frequency. If you have a scope available, please let me know. Otherwise measure the voltages on Q-28 and Q-29, and then Q-23, Q-24, and Q-25. This should be done with the radio in SSB transmit and the processor on.

If the circuit is not getting the carrier oscillator signal, it will not pass audio from input to output. Also check the small filters, CF-1, CF-2, CF-3 for bad solder connections. Let me know what you find and we can go from there.

Vy 73, Walt N9WB
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 24, 2006 5:34 PM
Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S

Hi Walt,
Ok, I checked IF 1 Pin 6. When I key up on SSB with the Processor
on, I get 9 volts on this wire and 0 volts when it is Off. Also, Yes,
I can hear myself when The Minoitor is On .

73,
Gordon

[Non-text portions of this message have been removed]

7768. Re: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 11:48:57 UTC
From: Walt Breining
Topic: 7768 Message: 7768

The best tubes for the 820S are the S-2001 tubes it originally came with. The 6146B type are almost as good. There is no magic tube that will give your rig more output. There has been a mod floating around that involves changing the screen voltage among other things and will slightly increase the output but runs the tubes, many of the components, and the transformer to death. I highly recommend against it. Remember, these rigs have some age on them.

Lets put this in perspective. If you double your power, you gain 3 dB. 6 dB is an S unit. So doubling your power is 1/2 an S unit. Now the power increase does not double your power, it increases it by less than one third. So this will only be noticed on your watt meter, and would never be seen at the receiving end. The price you pay to see the watt meter read slightly higher is shortened tube life, shortened life of the rig, more intermodulation distortion.

If you want a meaningful increase in your signal, there are much better ways. The way to get a real power increase is to get an amplifier. If I knew your set up, I might be able to recommend ways to improve your antenna efficiency for an improvement greater than hot rodding the rig can give you. Depending on what mike you are using, increasing your audio response and duty cycle can increase your strength to the listener's ear.

One of the advantages of the TS-820 and similar Hybrid Kenwood rigs is that they do not run the tubes to death as does the Yaesu FT-101. My TS-820 still has the original S-2001s in it.

Your TS-820 is a fine rig that will probably give you years of good service. Don't destroy it with mods that will be meaningless on the air.

I love my TS-820.

Vy 73, Walt N9WB
----- Original Message -----
From: kc2aup@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 23, 2006 8:55 PM
Subject: Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Speaking of tubes....Someone told me that in the 820S, if you made a change
of the 6146 tubes to another number or type, you can get more out of it. Any
truth to this? And if so, does the 12BY7 tube have to be changed also?

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7769. Re: [TS-520_820_530_830] Re: TS820S Output Problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 12:12:00 UTC
From: Walt Breining
Topic: 7721 Message: 7769

Be sure your ALC switch is in slow and not off. Walt
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 24, 2006 4:27 PM
Subject: RE: [TS-520_820_530_830] Re: TS820S Output Problem?

All,

Thanks Gordon, Walt, and all. You were correct, the problem was with the IP meter resistor. Funny thing, in examining the board initially, I saw the burned resistor, but because of the shape and color that it took, I thought it was a diode! I remember thinking "what is a diode doing there" and meaning to check the schematic later, but never got around to it. After receiving your advice, I was looking for the resistor on the board and finally realized that the "diode" was were R4 should be. I then took a close look at it and realized it was R4 all burned up. All I could do was shake my head and laugh!! Replaced the resistor and the meter started working much better. My bias was low, so I cranked it up to 60mA and now my output is around 100 watts.

The meter still acts "twitchy" and I do not get any motion from the needle in receive mode. It stays all the way to the left (0db) and does not indicate the strength of the incoming signals. Still some more troubleshooting to do. I guess whatever took out the resistor may have done other mischief. For now, I am going to put the covers back on and give it a try on the air. Hooray!!

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Tuesday, May 23, 2006 5:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS820S Output Problem?

Yes Check R2 and R3. They are both 10 Ohms but are in Series so will ohm out at 5 ohms in the Circuit.

Also Check the IP meter resistor R4 it should read 3.3K . Mine was bad. I had to replace it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Check the cathode resistors on the 6146 tubes. They are probably
bad. If you need more help doing so write back and I will go into more
detail after I recover from Dayton.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Stephen Davis
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 23, 2006 2:05 PM
> Subject: [TS-520_820_530_830] TS820S Output Problem?
>
>
> Hello All,
>
> Thanks to this great group of people and to the problem
Gordon resolved
> with his 820S, I now have bias on my TS-820S! Similar type of
problem as
> Gordon's in that it was a flakey relay board connector. Now that
I have
> bias, I can tune up the radio.... However, looks like there still
might be a
> problem (Darn!). I tuned the radio on 40 meters and got 100 watts
out, but
> when I checked the LP current, the needle was pegged. I quickly
reduced
> carrier to get the recommended 200 milliamps, but that reduced my
output to
> about 5 watts.
>
> Any thoughts on what might be causing this would be appreciated.
>
> Thanks and 73
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

--
> YAHOO! GROUPS LINKS

>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

--
>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7770. Re: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 11:30:56 UTC
From: pmertens
Topic: 7768 Message: 7770

Well seen and well done, Walt.

I have also a TS-820 running with the original S-2001 tubes giving an output power of 130 watts on a 50 ohm dummy load ! Still using the rig on regular basis on the air, although I have also modern rigs as a TS-870 and a Yeasu R-1000 ! But what a pleasure to tune a 820 and to refresh the brains on our it really works !

Patrick - ON4NY

Le Fri, 26 May 2006 13:48:57 +0200, Walt Breining <n9wb@...> a ?crit:

> The best tubes for the 820S are the S-2001 tubes it originally came
> with. The 6146B type are almost as good. There is no magic tube that
> will give your rig more output. There has been a mod floating around
> that involves changing the screen voltage among other things and will
> slightly increase the output but runs the tubes, many of the components,
> and the transformer to death. I highly recommend against it. Remember,
> these rigs have some age on them.
>
> Lets put this in perspective. If you double your power, you gain 3 dB. 6
> dB is an S unit. So doubling your power is 1/2 an S unit. Now the power
> increase does not double your power, it increases it by less than one
> third. So this will only be noticed on your watt meter, and would never
> be seen at the receiving end. The price you pay to see the watt meter
> read slightly higher is shortened tube life, shortened life of the rig,
> more intermodulation distortion.
>
> If you want a meaningful increase in your signal, there are much better
> ways. The way to get a real power increase is to get an amplifier. If I
> knew your set up, I might be able to recommend ways to improve your
> antenna efficiency for an improvement greater than hot rodding the rig
> can give you. Depending on what mike you are using, increasing your
> audio response and duty cycle can increase your strength to the
> listener's ear.
>
> One of the advantages of the TS-820 and similar Hybrid Kenwood rigs is
> that they do not run the tubes to death as does the Yaesu FT-101. My
> TS-820 still has the original S-2001s in it.
>
> Your TS-820 is a fine rig that will probably give you years of good
> service. Don't destroy it with mods that will be meaningless on the air.
>
> I love my TS-820.
>
> Vy 73, Walt N9WB

> ----- Original Message -----
> From: kc2aup@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 23, 2006 8:55 PM
> Subject: Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL
>
>
> Speaking of tubes....Someone told me that in the 820S, if you made a
> change
> of the 6146 tubes to another number or type, you can get more out of
> it. Any
> truth to this? And if so, does the 12BY7 tube have to be changed also?
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ---
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> ---
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--

_____
Patrick MERTENS
Licenci? en Sciences - Master of Sciences
T?l.: 010 65 76 86 - pmertens@...

7771. Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 11:49:04 UTC
From: Ellen R
Topic: 7768 Message: 7771

The cheapest, and most effective way to increase your on the air signal, is just basic antenna improvements. Even something as simple as putting in newer/better feedline can add a dB or 2 to your signal. More antenna height will also help. Trying to get another 15 or 20 watts by modding the rig is a waste of time. Not only will it run harder, but like a modded guitar amp, will be more susecptable to distortion, run hotter, and components will have a shorter lifespan.

Like Walt said, one of the things that makes our rigs cool, is that the finals are not beeing pushed way past design limits. You can't say this about rigs like the FT-101, the Drake's, and the Swan's, that will kill their finals in no time at all, if they are not tuned up properly. This is because they use TV sweep tubes, which were never intended for RF applications. Yeah, they can handle the power loads..... but they don't like it. 20 years of life from the original 6JS6c's - yeah, maybe if the rig was hardly ever used. 6146s with 20 years of life - sure, just treat them right. I still have the 6146Bs that came with my 820. They're down quite a bit on power (I can get maybe 45 watts out of them), but they're still good enough for use as backup/disaster tubes. When sweep tubes go, toss them, because they're usually toat.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> The best tubes for the 820S are the S-2001 tubes it originally came with. The 6146B type are almost as good. There is no magic tube that will give your rig more output. There has been a mod floating around that involves changing the screen voltage among other things and will slightly increase the output but runs the tubes, many of the components, and the transformer to death. I highly recommend against it. Remember, these rigs have some age on them.
>
> Lets put this in perspective. If you double your power, you gain 3 dB. 6 dB is an S unit. So doubling your power is 1/2 an S unit. Now the power increase does not double your power, it increases it by less than one third. So this will only be noticed on your watt meter, and would never be seen at the receiving end. The price you pay to see the watt meter read slightly higher is shortened tube life, shortened life of the rig, more intermodulation distortion.
>
> If you want a meaningful increase in your signal, there are much

better ways. The way to get a real power increase is to get an amplifier. If I knew your set up, I might be able to recommend ways to improve your antenna efficiency for an improvement greater than hot rodding the rig can give you. Depending on what mike you are using, increasing your audio response and duty cycle can increase your strength to the listener's ear.
>
> One of the advantages of the TS-820 and similar Hybrid Kenwood rigs is that they do not run the tubes to death as does the Yaesu FT-101. My TS-820 still has the original S-2001s in it.
>
> Your TS-820 is a fine rig that will probably give you years of good service. Don't destroy it with mods that will be meaningless on the air.
>
> I love my TS-820.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: kc2aup@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 23, 2006 8:55 PM
> Subject: Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL
>
>
> Speaking of tubes....Someone told me that in the 820S, if you made a change
> of the 6146 tubes to another number or type, you can get more out of it. Any
> truth to this? And if so, does the 12BY7 tube have to be changed also?
>
>
> [Non-text portions of this message have been removed]
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ----------
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms

of Service.
>
>
> ---

>
>
>
> [Non-text portions of this message have been removed]
>

7772. Re: [TS-520_820_530_830] Replacing TS-820 Filter Capacitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 12:32:53 UTC
From: Pierre Wells
Topic: 7761 Message: 7772

Stephen
You can do like many restorers do. Put the new cap into the older can that has been emptied out. Its not that complicated to empty the older can and you will end up with an original looking rig!
Peter VE2FAR

Stephen Davis <sdavis@...> wrote: Hello All,

I ordered replacement filter capacitors for my TS-530. They have arrived, but they are quiet a bit smaller in diameter than the originals. Small enough to drop through the mounting holes. Also I don't think the clamps will fit them. Does anyone have any suggestions on how to mount these? I scoured the net for physically larger capacitors of the same capacitance and voltage but could not find any. As a solution to the problem, I was thinking of trying to find a washer big enough for the capacitor to fit through at Home Depot. I would glue the washer to the chassis, slip the capacitor in and secure it with the clamp. Sounds kinda kludgey, but I think it might work. Any thoughts?

The next challenge is that the original capacitor had two prongs for soldering at each terminal. The replacement only has one prong. It is going to be tough to solder everything to the single terminals. Any method for extending the terminals? I thought of soldering an extension wire, but I think that would come unsoldered from the terminal as I try to solder the components and connecting wires to it. Seems like all of this is prone to error. I have limited experience in troubleshooting and repairing radios so any suggestions would be welcome.

I sure am glad this group exists!

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Feel free to call! Free PC-to-PC calls. Low rates on PC-to-Phone. Get Yahoo! Messenger with Voice

[Non-text portions of this message have been removed]

7773. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 18:25:25 UTC
From: Gordon
Topic: 7767 Message: 7773

Thanks Walt,
Wow, you sure do know these 820's well.
I'm going to work the WPX contest this weekend, So I will dive back into the 820's speech processor first of next week.

Thanks Again,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Re: Speech Processor in the TS-820 s
>
> Gordon:
> I think I understood that you got the sidetone working but the speech processor is still dead. You get transmit on SSB with the processor off but loose it when the processor is on no mater how high you turn the compression level control.
>
> The Processor circuit is on the IF board.
> This processor is a RF processor as it does the compressing at an RF frequency rather than a audio frequency. It does, not work in the IF but instead converts the audio to a sideband signal at a frequency of 455 kHz, compresses it as RF and then converts it back to audio. The theory is that by doing this, the 455 kHz filters will remove the harmonic distortion caused by hard limiting. When the processor is on, Q-22 amplifies the audio and drives a balanced modulator. For the balanced modulator to function it must be supplied a 455 kHz carrier signal. This comes from carrier oscillator Q-28 and Q-29. The 455 kHz carrier signal is on TP-1 and is applied to the balanced modulator through C-130. It is also supplied to a product detector, by way of C-133. After this process is complete, the product detector returns the signal to an audio frequency. If you have a scope available, please let me know. Otherwise measure the voltages on Q-28 and Q-29, and then Q-23, Q-24, and Q-25. This should be done with the radio in SSB transmit and the processor on.
>
> If the circuit is not getting the carrier oscillator signal, it will not pass audio from input to output. Also check the small filters, CF-1, CF-2, CF-3 for bad solder connections. Let me know what you find and we can go from there.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Gordon

> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 24, 2006 5:34 PM
> Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
>
>
> Hi Walt,
> Ok, I checked IF 1 Pin 6. When I key up on SSB with the Processor
> on, I get 9 volts on this wire and 0 volts when it is Off. Also, Yes,
> I can hear myself when The Minoitor is On .
>
> 73,
> Gordon
>
>
>
> [Non-text portions of this message have been removed]
>

7774. MC-85 Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 19:10:00 UTC
From: Gordon
Topic: 7774 Message: 7774

Anyone have a copy of the Manual for the MC-85 Desk Mike ?

Thanks,
Gordon
N6WK

7775. Re: MC-85 Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 19:44:00 UTC
From: Gordon
Topic: 7774 Message: 7775

Thanks Robert for the Manual.
This place is the BEST !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Anyone have a copy of the Manual for the MC-85 Desk Mike ?
>
> Thanks,
> Gordon
> N6WK
>

7776. Re: TS820S Output Problem? (Twitchy S-meter)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 20:29:55 UTC
From: Dimitri
Topic: 7721 Message: 7776

My S-meter has been twitchy .
Usually rurning RF gain all the way down would cause the meter to slowly "peg" to max and come to life for a few minutes. Then it would go out again.
It seemed like an intermittent connection and yesterday after opening it up I discovered it was the s-meter adjutment trimmer (VR-1) on the IF board. Cleaning it didn't have any effect. There seems to be a hole where the wipers sits (in just the right spot). Until I get a replacement, I just turned it down by 2 S units and now it works all the time.

Moral of the story....lower the asjustment of the S meter and see if the twitch goes away. If it does...replace VR-1 on the IF board

Dimitri
kf6qex

> The meter still acts "twitchy" and I do not get any motion from the
> needle in receive mode. It stays all the way to the left (0db) and
>does not
> indicate the strength of the incoming signals.

7777. Re: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-26 22:09:49 UTC
From: bob54quam@cs.com
Topic: 7768 Message: 7777

Actually, the finals in the Yaesu FT-101 are not run hard at all. They are 6JS6C tubes and are much larger than the 6146. In the Yaesu they are run at about 260 watts peak SSB input, whereas they are capable of at least twice that amount. They have a maximum current rating of 350 ma per tube continuous duty in tv service, which would be the approximate maximum rating for peak plate current in SSB service.

In a Galaxy V MKIII, (they are
a drop-in replacement for the original 6LB6) they will put out well over 300 watts (more than 500 watts peak input, just slightly less than the 6LB6). At this power level, assuming normal duty cyle for SSB transmission, they will be dissipating well under their rated 30 watts of plate dissipation. In the FT-101, the tubes will be practically loafing along with less than half that amount of plate dissipation. They usually last many years in that service.

Having said that, the 6146 is still a much better tube because it was designed for transmitting, rather than television service, even thought it is capable of only about half the power of a 6JS6C.
Bob
KI0KM

[Non-text portions of this message have been removed]

7778. RE: [TS-520_820_530_830] Replacing TS-820 Filter Capacitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-27 16:05:37 UTC
From: Stephen Davis
Topic: 7761 Message: 7778

Hi Peter,

Neat idea. Thanks. I will have time to work on it this weekend and
give your suggestion a try.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Pierre Wells
Sent: Friday, May 26, 2006 6:33 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Replacing TS-820 Filter Capacitors

Stephen
You can do like many restorers do. Put the new cap into the older can that
has been emptied out. Its not that complicated to empty the older can and
you will end up with an original looking rig!
Peter VE2FAR

Stephen Davis <sdavis@...> wrote: Hello All,

I ordered replacement filter capacitors for my TS-530. They have
arrived, but they are quiet a bit smaller in diameter than the originals.
Small enough to drop through the mounting holes. Also I don't think the
clamps will fit them. Does anyone have any suggestions on how to mount
these? I scoured the net for physically larger capacitors of the same
capacitance and voltage but could not find any. As a solution to the
problem, I was thinking of trying to find a washer big enough for the
capacitor to fit through at Home Depot. I would glue the washer to the
chassis, slip the capacitor in and secure it with the clamp. Sounds kinda
kludgey, but I think it might work. Any thoughts?

The next challenge is that the original capacitor had two prongs for
soldering at each terminal. The replacement only has one prong. It is
going to be tough to solder everything to the single terminals. Any method
for extending the terminals? I thought of soldering an extension wire, but
I think that would come unsoldered from the terminal as I try to solder the
components and connecting wires to it. Seems like all of this is prone to
error. I have limited experience in troubleshooting and repairing radios so
any suggestions would be welcome.

I sure am glad this group exists!

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham radio
Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Feel free to call! Free PC-to-PC calls. Low rates on PC-to-Phone. Get
Yahoo! Messenger with Voice

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

_____

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

_____

[Non-text portions of this message have been removed]

7779. TS-830S Noise Blanker Tune-up?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-27 18:16:45 UTC
From: Robert
Topic: 7779 Message: 7779

Is there any recommended procedure for aligning/tweeking the noise blanker circuit? The NB in my 830S is virtually useless at any setting and I am hoping that perhaps all it requires is a bit of tweeking.

Any suggestions would be welcome.

TNX & 73
Bob - KA9FLX

7780. Re: [TS-520_820_530_830] Re: MC-85 Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-27 20:42:08 UTC
From: Walt Breining
Topic: 7774 Message: 7780

Gordon:
If convenient, please forward the manual to me at n9wb@.... I don't need hard copy, just need it digital. I try to keep microphone information on hand.
Thank You,
Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, May 26, 2006 2:44 PM
Subject: [TS-520_820_530_830] Re: MC-85 Manual

Thanks Robert for the Manual.
This place is the BEST !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Anyone have a copy of the Manual for the MC-85 Desk Mike ?
>
> Thanks,
> Gordon
> N6WK
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7781. Re: MC-85 Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-27 21:56:57 UTC
From: Gordon
Topic: 7774 Message: 7781

Check your Email Walt.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Gordon:
> If convenient, please forward the manual to me at n9wb@... I don't
need hard copy, just need it digital. I try to keep microphone
information on hand.
> Thank You,
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, May 26, 2006 2:44 PM
> Subject: [TS-520_820_530_830] Re: MC-85 Manual
>
>
> Thanks Robert for the Manual.
> This place is the BEST !
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Anyone have a copy of the Manual for the MC-85 Desk Mike ?
> >
> > Thanks,
> > Gordon
> > N6WK
> >
>
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>

>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7782. Kenwood Manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 00:24:43 UTC
From: Gordon
Topic: 7782 Message: 7782

I have a bunch of Kenwood Manuals on line. I am adding more as I get them. If you have one I don't and want to share, Please let me know.
I am looking for the TS-830S User Manual. I'll have the TS-820 /S user manual up tomorrow!
Thanks.
Gordon
N6WK

http://www.n6wk.com/kenwood/

7783. TS-520 Funny CW receive audio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 06:15:14 UTC
From: David
Topic: 7783 Message: 7783

All,

I have an intermittent audio problem in cw. On returning to receive the audio sounds hollow and slighty higher in pitch. I believe this is a problem with a relay, or part of a relay getting stuck. Cycling the send switch or tapping the key usually clears this up. The only thing is that this sometimes happens if I switch from ssb to cw mode, not transmitting at all.

David, KB5IZO

7784. Re: [TS-520_820_530_830] Re: MC-85 Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 10:03:41 UTC
From: Walt Breining
Topic: 7774 Message: 7784

Thank You, Gordon

Walt N9WB
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, May 27, 2006 4:56 PM
Subject: [TS-520_820_530_830] Re: MC-85 Manual

Check your Email Walt.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Gordon:
> If convenient, please forward the manual to me at n9wb@... I don't
need hard copy, just need it digital. I try to keep microphone
information on hand.
> Thank You,
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, May 26, 2006 2:44 PM
> Subject: [TS-520_820_530_830] Re: MC-85 Manual
>
>
> Thanks Robert for the Manual.
> This place is the BEST !
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Anyone have a copy of the Manual for the MC-85 Desk Mike ?
> >
> > Thanks,
> > Gordon
> > N6WK
> >
>

>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7785. Re: [TS-520_820_530_830] TS-520 Funny CW receive audio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 14:25:09 UTC
From: Walt Breining
Topic: 7783 Message: 7785

Clean the contacts in the speaker plug and the headphone jack. Be sure to clean the contacts that make and break together to activate the speaker when nothing is plugged in.
N9WB Walt
----- Original Message -----
From: David
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, May 28, 2006 1:15 AM
Subject: [TS-520_820_530_830] TS-520 Funny CW receive audio

All,

I have an intermittent audio problem in cw. On returning to receive
the audio sounds hollow and slighty higher in pitch. I believe this is
a problem with a relay, or part of a relay getting stuck. Cycling the
send switch or tapping the key usually clears this up. The only thing
is that this sometimes happens if I switch from ssb to cw mode, not
transmitting at all.

David, KB5IZO

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7786. Re: [TS-520_820_530_830] Kenwood Manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 14:56:36 UTC
From: warren gill
Topic: 7782 Message: 7786

gordon.....i have both manuals for the ts-830s if you need them
warren gill ki4hgd snag790@...

Gordon <n6wk@...> wrote:
I have a bunch of Kenwood Manuals on line. I am adding more as I get
them. If you have one I don't and want to share, Please let me know.
I am looking for the TS-830S User Manual. I'll have the TS-820 /S user
manual up tomorrow!
Thanks.
Gordon
N6WK

http://www.n6wk.com/kenwood/

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

New Yahoo! Messenger with Voice. Call regular phones from your PC and save big.

[Non-text portions of this message have been removed]

7787. Re: Kenwood Manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 15:26:31 UTC
From: John Holden
Topic: 7782 Message: 7787

Gordon..

Thanks for the link to your reference library! I at least am closer
now to foguring out my AT-180 (via the AT-200 manual) but..does ANYONE
out there have the actual AT-180 manual to share? Unfortunately even
with web searches..all I seem to find are the *^@!! ICOM AT-180s,
which ain't the same!

TIA..and 73's
John/N7IQV

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I have a bunch of Kenwood Manuals on line. I am adding more as I get
> them. If you have one I don't and want to share, Please let me know.
> I am looking for the TS-830S User Manual. I'll have the TS-820 /S user
> manual up tomorrow!
> Thanks.
> Gordon
> N6WK
>
> http://www.n6wk.com/kenwood/
>

7788. Re: Kenwood Manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 17:29:02 UTC
From: Gordon
Topic: 7782 Message: 7788

Thanks Warren,

I have them now.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, warren gill <snag790@...>
wrote:
>
> gordon.....i have both manuals for the ts-830s if you need them
> warren gill ki4hgd snag790@...
>
> Gordon <n6wk@...> wrote:
> I have a bunch of Kenwood Manuals on line. I am adding more as I get
> them. If you have one I don't and want to share, Please let me know.
> I am looking for the TS-830S User Manual. I'll have the TS-820 /S user
> manual up tomorrow!
> Thanks.
> Gordon
> N6WK
>
> http://www.n6wk.com/kenwood/
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft supply
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---------------------------------

>
>
>
>
>
> ---------------------------------
> New Yahoo! Messenger with Voice. Call regular phones from your PC
and save big.
>
> [Non-text portions of this message have been removed]
>

7789. Re: Kenwood Manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 17:53:01 UTC
From: Gordon
Topic: 7782 Message: 7789

John,
I have the AT-180 Schematic in my Library, But have NOT found the
manual yet. I will keep an eye out for it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "John Holden" <n7iqv@...>
wrote:
>
> Gordon..
>
> Thanks for the link to your reference library! I at least am closer
> now to foguring out my AT-180 (via the AT-200 manual) but..does ANYONE
> out there have the actual AT-180 manual to share? Unfortunately even
> with web searches..all I seem to find are the *^@!! ICOM AT-180s,
> which ain't the same!
>
> TIA..and 73's
> John/N7IQV
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I have a bunch of Kenwood Manuals on line. I am adding more as I get
> > them. If you have one I don't and want to share, Please let me know.
> > I am looking for the TS-830S User Manual. I'll have the TS-820 /S user
> > manual up tomorrow!
> > Thanks.
> > Gordon
> > N6WK
> >
> > http://www.n6wk.com/kenwood/
> >
>

7790. Convert MC-80 Mic to operate on a TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 17:22:19 UTC
From: N3DOK
Topic: 7790 Message: 7790

Hi,
I have a Kenwood MC-80. I would like to use it with my TS-830S. Manual information of the MC-80 indicates that a Kenwood MJ-84 adapter is required. Since the MJ-84 is very hard to find, anyone know of a modification?

Thanks to everyone who keeps the Kenwood Hybrid rigs on the air! Kenwood TS-520, TS-520D, TS-520S, TS-520SE, TS-520SP, TS-820, TS-820S, TS-530S, TS-830S, R-820

Bob N3DOK

[Non-text portions of this message have been removed]

7791. Re: [TS-520_820_530_830] Re: TS830S Kenwood Display lost

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 20:27:30 UTC
From: phil pavey
Topic: 7705 Message: 7791

denis, let me know if u find some in vk!

73 phil vk3yb

TS-520_820_530_830@yahoogroups.com wrote on 23/5/06 8:55 am:

>Hi Gordon
>I'll try some of that De Oxit,
>I would say we have this type
>of cleaner in Australia. Many
>thanks and I'll give you a
>report once I have found the
>cleaner at the electrical
>shop. De.Dennis vk4oc
>Cheers and many thanks.
>
>
>
>
>- In
>TS-520_820_530_830@yaho
>ogroups.com, "Gordon"
><n6wk@...> wrote:
>>
>> HI Dennis,
>> It sounds like the MODE
>switch is dirty for the USB
>contacts. I'd start by
>spaying the Mode switch
>with some De Oxit and
>working it
>> back and forth a bit before
>searching deeper.
>>
>> 73,
>> Gordon
>>
>> --- In
>TS-520_820_530_830@yaho
>ogroups.com, "vk4oc"
><vk4oc1@> wrote:
>> >
>> > Hi Everyone
>> > I have a little trouble
>with my TS830S, the display
>unit is lost when I

>> > go into USB. I give you
>example, I'm on 3.600 MHZ
>LSB, if I switch it
>> > up to 3.600 MHZ USB all
>the display is lost.
>> > The same on 14.200
>MHZ. USB. switch it to LSB
>display comes back.
>> > I hoping it may be a quick
>fix, put a bit of oil on the
>switch, can
>> > anyone help me with this
>little problem.
>> > If you had this type of
>trouble could you advise me
>on a fix.
>> > Or something could be
>something internal needing
>fixing.
>> > De.Dennis VK4OC in
>Tallegalla Queensland
>Australia.
>> >
>>
>
>
>
>
>
>
>------------------------
>Yahoo! Groups Sponsor
>----------------------~-->
>Everything you need is
>one?click away.? Make Yahoo!
>your home page?now.
>http://us.click.yahoo.com/A
>HchtC/4FxNAA/yQLSAA/ELT
>olB/TM
>------------------------------
>------------------------------
>----------~->
>
>
>Yahoo! Groups Links
>
>http://groups.yahoo.com/gr
>oup/TS-520_820_530_830/
>
>TS-520_820_530_830-unsubs

>cribe@yahoogroups.com
>
>http://docs.yahoo.com/info
>/terms/
>
>
>
>
>--
>No virus found in this
>incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.392 / Virus
>Database: 268.6.1/344 -
>Release Date: 5/19/2006

7793. Re: TS830S Kenwood Display lost

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 21:06:01 UTC
From: Gordon
Topic: 7705 Message: 7793

The stuff I bought is made by CAIG Laoratories and is named Deoxit D5.
It cost about 15 bucks for a 5 oz can. It works GREAT! Just a little
bit does a fantastic job.

You could email them and find out if they have a distributor in Australia.
their website is: http://www.caig.com
EMAIL IS : caig123 at caig.com...

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "phil pavey" <PPAVEY@...>
wrote:
>
> denis, let me know if u find some in vk!
>
> 73 phil vk3yb
>
> TS-520_820_530_830@yahoogroups.com wrote on 23/5/06 8:55 am:
>
> >Hi Gordon
> >I'll try some of that De Oxit,
> >I would say we have this type
> >of cleaner in Australia. Many
> >thanks and I'll give you a
> >report once I have found the
> >cleaner at the electrical
> >shop. De.Dennis vk4oc
> >Cheers and many thanks.
> >
> >
> >
> >
> >- In
> >TS-520_820_530_830@yaho
> >ogroups.com, "Gordon"
> ><n6wk@> wrote:
> >>
> >> HI Dennis,
> >> It sounds like the MODE
> >switch is dirty for the USB
> >contacts. I'd start by
> >spaying the Mode switch
> >with some De Oxit and
> >working it
> >> back and forth a bit before

> >searching deeper.
> >>
> >> 73,
> >> Gordon
> >>
> >> --- In
> >TS-520_820_530_830@yaho
> >ogroups.com, "vk4oc"
> ><vk4oc1@> wrote:
> >> >
> >> > Hi Everyone
> >> > I have a little trouble
> >with my TS830S, the display
> >unit is lost when I
> >> > go into USB. I give you
> >example, I'm on 3.600 MHZ
> >LSB, if I switch it
> >> > up to 3.600 MHZ USB all
> >the display is lost.
> >> > The same on 14.200
> >MHZ. USB. switch it to LSB
> >display comes back.
> >> > I hoping it may be a quick
> >fix, put a bit of oil on the
> >switch, can
> >> > anyone help me with this
> >little problem.
> >> > If you had this type of
> >trouble could you advise me
> >on a fix.
> >> > Or something could be
> >something internal needing
> >fixing.
> >> > De.Dennis VK4OC in
> >Tallegalla Queensland
> >Australia.
> >> >
> >>
> >
> >
> >
> >
> >
> >
> >------------------------
> >Yahoo! Groups Sponsor
> >----------------------~-->
> >Everything you need is
> >one click away. Make Yahoo!
> >your home page now.

> >http://us.click.yahoo.com/A
> >HchtC/4FxNAA/yQLSAA/ELT
> >olB/TM
> >------------------------------
> >------------------------------
> >----------~->
> >
> >
> >Yahoo! Groups Links
> >
> >http://groups.yahoo.com/gr
> >oup/TS-520_820_530_830/
> >
> >TS-520_820_530_830-unsubs
> >cribe@yahoogroups.com
> >
> >http://docs.yahoo.com/info
> >/terms/
> >
> >
> >
> >
> >--
> >No virus found in this
> >incoming message.
> >Checked by AVG Free Edition.
> >Version: 7.1.392 / Virus
> >Database: 268.6.1/344 -
> >Release Date: 5/19/2006
>

7794. CAIG DeOxit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-28 21:09:10 UTC
From: Gordon
Topic: 7794 Message: 7794

Just went to their web site. Looks like they ship internationally !

Gordon
N6WK

7795. Re: VFO-820 not working with TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 03:48:40 UTC
From: ve1idx
Topic: 7730 Message: 7795

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> Hi Garth
>
> Welcome to this Group.
>
> Do you have checked the cable between TRX + VFO for some loose
cables. I hade the same
> problem on EVERY connection cable with ny VFO-520S + TS-520S. Always
some "brocken"
> wires.
>
> Daniel, HB9DDS
>

Thanks Daniel! I got it fixed. I was too concerned about what the previous owner told me had happened that I neglected to look at the obvious.That is quite embarrasing for a broadcast tech to admit. ;) Too much work and not enough sleep lately I guess. I found a broken wire in the connecting cable.A little spot of solder and I can now try to work VI9NI on split. ;)

73 Garth VE1IDX

7796. Deoxit D5 Australia

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 03:56:53 UTC
From: Rick
Topic: 7796 Message: 7796

This product is available in Austrlia - prices at the link below.
http://www.eav.com.au/caig-prices.shtml
Some amateur dealers (Ozgear in Brisbane for instance)list it on their websites.

7797. CW Filter YK88CN Installed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 13:12:33 UTC
From: Ken Gunton
Topic: 7797 Message: 7797

I recently purchased a YK88CN 270-Hz filter,
and installed it in my TS-830S this weekend,
thinking I would try it out on the CQ WW WPX
contest. I had never before used a rig with
a narrow CW filter, having used an SB-102 since I
built it in 1969 without the optional filter.

WOW!!! is all I can say. By playing with the
VBT and Notch controls, I was able to single
out signals which, on wide CW mode, seemed
on top of each other. That, coupled with using
the phase reversal switch on my Heil Pro headset
(just bought at Dayton Hamvention), allowed
me to "see" or "feel" the signal I wanted to
listen to.

At first, I thought I had a dead filter, but
turning the VBT to the 2-3 o'clock position
brought everything to life.

If you operate CW without a narrow filter, you
have no idea what you are missing!

Just remember (I didn't-gulp) to change
the jumper next to the filter bank to the one
you're installing....makes all the difference
in the world... hi hi

Ken
W8ASA

7798. Re: Convert MC-80 Mic to operate on a TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 14:29:36 UTC
From: james27613
Topic: 7790 Message: 7798

hi bob,

you could make up an adapter with a short cable or
this guy on ebay sells adapters for all makes/models

http://stores.ebay.com/Jolly-Roger-Radio-Shop

73 james ke4drn

7799. Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 16:15:16 UTC
From: Jody Mills
Topic: 7799 Message: 7799

I was originally going to send my non-working 520s to Byron Campbell, wa4geg, as I had once spoken to him about this radio and was going to send it in. But, things got busy and I never got around to sending it in.

Today I decided, dang it I'm going to get this done! So I went to his webpage to get his email address, only to find that he now only lists Yaesu equipment as equipment he accepts for repair. I've emailed him to ask if he will, in fact, accept my ts-520s or if he has completely narrowed his focus to Yaesu products.

While I wait for a reply, I thought I would ask you folks if you know of any reputable repair facilities that will work on an old Kenwood boat anchor. Repairing it myself is not an option, as I am just barely scratching the surface of amateur radio and currently know nothing of electronics. In time, of course, I intend to remedy that, but for right now my main concern is getting a budget-conscious hf setup for my home up and running for when I pass the General later this year.

Thanks!

7800. TR 7800

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 16:20:51 UTC
From: w4jvy
Topic: 7800 Message: 7800

Looking for information for the tone gen. operation/programing
of a kenwood TR7800.

7801. Re: [TS-520_820_530_830] TR 7800

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 17:12:30 UTC
From: Ken Winterling
Topic: 7800 Message: 7801

I previously owned a TR-7850, the higher power version of the same radio. There was no CTCSS generator built in. The front panel "Tone" button was simply a switch to enable/disable a user-installed tone transmit module.

Many of us used a Com-Spec deck. It had a DIP switch for setting one tone at a time. Here is an example of a current-production unit that is far smaller than the one I used: http://www.com-spec.com/ss64.htm. I installed mine in an external box and used a switch to select the tones.

Ken, WA2LBI

On 5/29/06, w4jvy <donaldl37@...> wrote:
> Looking for information for the tone gen. operation/programing
> of a kenwood TR7800.
>

7802. Re: [TS-520_820_530_830] Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 16:34:09 UTC
From: DW Holtman
Topic: 7799 Message: 7802

Jody,

I have never used this person, got his link on Ebay.

http://www.dbeweb.com/Kenwood/index.html

He might be worth talking to.

Best,
DW Holtman
WB7SSN

Jody Mills wrote:

> I was originally going to send my non-working 520s to Byron
> Campbell, wa4geg, as I had once spoken to him about this radio and
> was going to send it in. But, things got busy and I never got
> around to sending it in.
>
> Today I decided, dang it I'm going to get this done! So I went to
> his webpage to get his email address, only to find that he now only
> lists Yaesu equipment as equipment he accepts for repair. I've
> emailed him to ask if he will, in fact, accept my ts-520s or if he
> has completely narrowed his focus to Yaesu products.
>
> While I wait for a reply, I thought I would ask you folks if you
> know of any reputable repair facilities that will work on an old
> Kenwood boat anchor. Repairing it myself is not an option, as I am
> just barely scratching the surface of amateur radio and currently
> know nothing of electronics. In time, of course, I intend to remedy
> that, but for right now my main concern is getting a budget-
> conscious hf setup for my home up and running for when I pass the
> General later this year.
>
> Thanks!
>
>
>
>
>
> SPONSORED LINKS
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ>
> Craft hobby

> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

7804. Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 20:46:21 UTC
From: Gordon
Topic: 7799 Message: 7804

Jody,
I just had my TS-830S completely gone through by Tim at TD
communications. His prices were embarressing low and I had the radio
back within a week. Worked BETTER then New.
Contact him at http://tdcommunications.net or via mail at
TDcommservice at aol.com
his number is 717-431-4089.
You will really like Tim and his Serrvice.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
<jody.mills@...> wrote:
>
> I was originally going to send my non-working 520s to Byron
> Campbell, wa4geg, as I had once spoken to him about this radio and
> was going to send it in. But, things got busy and I never got
> around to sending it in.
>
> Today I decided, dang it I'm going to get this done! So I went to
> his webpage to get his email address, only to find that he now only
> lists Yaesu equipment as equipment he accepts for repair. I've
> emailed him to ask if he will, in fact, accept my ts-520s or if he
> has completely narrowed his focus to Yaesu products.
>
> While I wait for a reply, I thought I would ask you folks if you
> know of any reputable repair facilities that will work on an old
> Kenwood boat anchor. Repairing it myself is not an option, as I am
> just barely scratching the surface of amateur radio and currently
> know nothing of electronics. In time, of course, I intend to remedy
> that, but for right now my main concern is getting a budget-
> conscious hf setup for my home up and running for when I pass the
> General later this year.
>
> Thanks!
>

7805. Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 22:45:37 UTC
From: Steve
Topic: 7805 Message: 7805

I switched my 820 on after a Winter in the shed and it didn't want to play!
At first switch on it would not tune on any of the bands and the digital counter kept counting with the last two digits around a set frequency.
After leaving it on for a while the 160,80 and 40m bands have come back to life leaving the higher bands still hunting and no reception.
The Mode doesn't affect the ailment and when I opened her up there were no obvious signs of damage or loose wires.
After I put it back I twisted the VFO switch a few times and got a temporary reprieve for all of 5 minutes before I lost reception again.
Has anyone in the group had similar experiences- I suspect a faulty connection because of the temporary reprieve- but I wouldnt know wher to start.
(The RF meter does register a signal from my TS50 when sent but no intelligible audio)
Steve , M1SPY

7806. Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-29 23:47:14 UTC
From: Gary
Topic: 7806 Message: 7806

Jody,
How about the list owner K0ZL. He repaired my 530 at a good price

KC0NPJ Gary

7807. Re: [TS-520_820_530_830] Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 00:12:45 UTC
From: Dennis Windle
Topic: 7805 Message: 7807

Steve;
Since it spent the winter in the "shed" and looking at the type of problems you are having, there is a good chance some contacts in the rig have corroded (unless the shed is high & dry and no possible moisture got to the unit ?). In any case, the first thing I would do is get some De-Oxit and clean all the switches (pay special attention to the band switch and mode switch) and pots and pull each of the connectors to the boards above and below the chassis cleaning the pins as you go (work the plugs and pins several times on & off to help the cleaning process). Also clean the relay sockets and any other sockets ie tube sockets, SO239, 9-pin socket for VFO etc. Corroded contacts just give you constant intermittent problems so best to just clean them all then see where the rig stands. Dirty or corroded relay contacts are also a source for intermittent transmit & receive problems so those should also be cleaned.

D.Windle
----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, May 29, 2006 6:45 PM
Subject: [TS-520_820_530_830] Bad Winter for the 820

I switched my 820 on after a Winter in the shed and it didn't want to
play!
At first switch on it would not tune on any of the bands and the
digital counter kept counting with the last two digits around a set
frequency.
After leaving it on for a while the 160,80 and 40m bands have come
back to life leaving the higher bands still hunting and no reception.
The Mode doesn't affect the ailment and when I opened her up there
were no obvious signs of damage or loose wires.
After I put it back I twisted the VFO switch a few times and got
a temporary reprieve for all of 5 minutes before I lost reception again.
Has anyone in the group had similar experiences- I suspect a faulty
connection because of the temporary reprieve- but I wouldnt know wher
to start.
(The RF meter does register a signal from my TS50 when sent but no
intelligible audio)
Steve , M1SPY

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7808. Re: Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 01:02:37 UTC
From: Gordon
Topic: 7805 Message: 7808

Very Good Advice. Just exactly what I was going to Suggest !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
<windled@...> wrote:
>
> Steve;
> Since it spent the winter in the "shed" and looking at the
type of problems you are having, there is a good chance some contacts
in the rig have corroded (unless the shed is high & dry and no
possible moisture got to the unit ?). In any case, the first thing I
would do is get some De-Oxit and clean all the switches (pay special
attention to the band switch and mode switch) and pots and pull each
of the connectors to the boards above and below the chassis cleaning
the pins as you go (work the plugs and pins several times on & off to
help the cleaning process). Also clean the relay sockets and any other
sockets ie tube sockets, SO239, 9-pin socket for VFO etc. Corroded
contacts just give you constant intermittent problems so best to just
clean them all then see where the rig stands. Dirty or corroded relay
contacts are also a source for intermittent transmit & receive
problems so those should also be cleaned.
>
> D.Windle
> ----- Original Message -----
> From: Steve
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, May 29, 2006 6:45 PM
> Subject: [TS-520_820_530_830] Bad Winter for the 820
>
>
> I switched my 820 on after a Winter in the shed and it didn't want to
> play!
> At first switch on it would not tune on any of the bands and the
> digital counter kept counting with the last two digits around a set
> frequency.
> After leaving it on for a while the 160,80 and 40m bands have
come
> back to life leaving the higher bands still hunting and no reception.
> The Mode doesn't affect the ailment and when I opened her up
there
> were no obvious signs of damage or loose wires.
> After I put it back I twisted the VFO switch a few times and got
> a temporary reprieve for all of 5 minutes before I lost reception

again.
> Has anyone in the group had similar experiences- I suspect a
faulty
> connection because of the temporary reprieve- but I wouldnt know wher
> to start.
> (The RF meter does register a signal from my TS50 when sent but no
> intelligible audio)
> Steve , M1SPY
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7809. Re: [TS-520_820_530_830] Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 10:30:07 UTC
From: Walt Breining
Topic: 7805 Message: 7809

Start by cleaning all of the switches and controls with DE-Oxit. Be sure to clean the SG switch on the back and place it on on.
Vy 73, Walt N9WB
----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, May 29, 2006 5:45 PM
Subject: [TS-520_820_530_830] Bad Winter for the 820

I switched my 820 on after a Winter in the shed and it didn't want to
play!
At first switch on it would not tune on any of the bands and the
digital counter kept counting with the last two digits around a set
frequency.
After leaving it on for a while the 160,80 and 40m bands have come
back to life leaving the higher bands still hunting and no reception.
The Mode doesn't affect the ailment and when I opened her up there
were no obvious signs of damage or loose wires.
After I put it back I twisted the VFO switch a few times and got
a temporary reprieve for all of 5 minutes before I lost reception again.
Has anyone in the group had similar experiences- I suspect a faulty
connection because of the temporary reprieve- but I wouldnt know wher
to start.
(The RF meter does register a signal from my TS50 when sent but no
intelligible audio)
Steve , M1SPY

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7810. Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 17:29:07 UTC
From: Ron Kienzle
Topic: 7799 Message: 7810

Hey Jody--

Bill, K0ZL, in Denver, Colorado, does very good work and his prices
are reasonable. (He is also recommended by HRO).

He is the moderator of this group.

His website is http://www.amateur-repairs.com/

73.

--Ron (KZ7P)

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
<jody.mills@...> wrote:
>
> I was originally going to send my non-working 520s to Byron
> Campbell, wa4geg, as I had once spoken to him about this radio and
> was going to send it in. But, things got busy and I never got
> around to sending it in.
>
> Today I decided, dang it I'm going to get this done! So I went to
> his webpage to get his email address, only to find that he now
only
> lists Yaesu equipment as equipment he accepts for repair. I've
> emailed him to ask if he will, in fact, accept my ts-520s or if he
> has completely narrowed his focus to Yaesu products.
>
> While I wait for a reply, I thought I would ask you folks if you
> know of any reputable repair facilities that will work on an old
> Kenwood boat anchor. Repairing it myself is not an option, as I
am
> just barely scratching the surface of amateur radio and currently
> know nothing of electronics. In time, of course, I intend to
remedy
> that, but for right now my main concern is getting a budget-
> conscious hf setup for my home up and running for when I pass the
> General later this year.
>
> Thanks!
>

7811. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 20:54:55 UTC
From: Gordon
Topic: 7767 Message: 7811

Hi Walt,
I started to get into the Speech Processor today, But came upon something Strange and Interesting. There is Something Soldered to the Circuit side of the IF Board. It is some sort of add-on Board. I checked out the 4 wires that are attached to it, and they tie into the RF speech processor part of the IF board. I posted some Pictures of this Unit. It does NOT appear to be in my schematics at all.
Go to this link and look over the pictures if you could, and let me know what in heck this thing is. Has anyone ever seen one of these ? Perhaps it is why my speech processor does Not work.
Link: http://www.n6wk.com/kenwood/820S/

1 wire ties into TP 4 on the IF board next to Q24,
the next wire ties into R113 R138 and R108, the Next ties into C39 and R140 and the last ties into D39, D40 and C133
I tried to take a close up picture of the Circuit side to help you.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Re: Speech Processor in the TS-820 s
>
> Gordon:
> I think I understood that you got the sidetone working but the speech processor is still dead. You get transmit on SSB with the processor off but loose it when the processor is on no mater how high you turn the compression level control.
>
> The Processor circuit is on the IF board.
> This processor is a RF processor as it does the compressing at an RF frequency rather than a audio frequency. It does, not work in the IF but instead converts the audio to a sideband signal at a frequency of 455 kHz, compresses it as RF and then converts it back to audio. The theory is that by doing this, the 455 kHz filters will remove the harmonic distortion caused by hard limiting. When the processor is on, Q-22 amplifies the audio and drives a balanced modulator. For the balanced modulator to function it must be supplied a 455 kHz carrier signal. This comes from carrier oscillator Q-28 and Q-29. The 455 kHz carrier signal is on TP-1 and is applied to the balanced modulator through C-130. It is also supplied to a product detector, by way of C-133. After this process is complete, the product detector returns the signal to an audio frequency. If you have a scope available, please let me know. Otherwise measure the voltages on Q-28 and Q-29,

and then Q-23, Q-24, and Q-25. This should be done with the radio in SSB transmit and the processor on.
>
> If the circuit is not getting the carrier oscillator signal, it will not pass audio from input to output. Also check the small filters, CF-1, CF-2, CF-3 for bad solder connections. Let me know what you find and we can go from there.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 24, 2006 5:34 PM
> Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
>
>
> Hi Walt,
> Ok, I checked IF 1 Pin 6. When I key up on SSB with the Processor
> on, I get 9 volts on this wire and 0 volts when it is Off. Also, Yes,
> I can hear myself when The Minoitor is On .
>
> 73,
> Gordon
>
>
>
> [Non-text portions of this message have been removed]
>

7812. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 21:25:23 UTC
From: Daniel
Topic: 7767 Message: 7812

Hi Gordon

What happen when you disconnect this add on board? Back to the roots!!

Daniel, HB9DDS

> I started to get into the Speech Processor today, But came upon
> something Strange and Interesting. There is Something Soldered to the
> Circuit side of the IF Board. It is some sort of add-on Board. I
> checked out the 4 wires that are attached to it, and they tie into the
> RF speech processor part of the IF board. I posted some Pictures of
> this Unit. It does NOT appear to be in my schematics at all.
> Go to this link and look over the pictures if you could, and let me
> know what in heck this thing is. Has anyone ever seen one of these ?
> Perhaps it is why my speech processor does Not work.
> Link: http://www.n6wk.com/kenwood/820S/
>
> 1 wire ties into TP 4 on the IF board next to Q24,
> the next wire ties into R113 R138 and R108, the Next ties into C39
> and R140 and the last ties into D39, D40 and C133
> I tried to take a close up picture of the Circuit side to help you.
>
> 73,
> Gordon

7813. Re: Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 21:35:55 UTC
From: Steve
Topic: 7805 Message: 7813

Hi Dennis
Thanks for the advice from yourself and the other folk.
Just to make an ass of me the old girl has decided to play again
tonight and has spent more time behaving than not!
I did lube the switches last night and left them and this seems to
have helped although she is still 'touchy' when moved.
All this would tend to agree with the bad contact diagnoses so I
will take all your great advice and give her a good going over.
I guess she's got rheumatics and will have to spend next Winter
some where warmer and dryer....perhaps the cow shed !!!
(All that methane is probably less corrosive than the North Sea air)
Thanks again,
Steve M1SPY.

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
<windled@...> wrote:
>
> Steve;
> Since it spent the winter in the "shed" and looking at the
type of problems you are having, there is a good chance some contacts
in the rig have corroded (unless the shed is high & dry and no
possible moisture got to the unit ?). In any case, the first thing I
would do is get some De-Oxit and clean all the switches (pay special
attention to the band switch and mode switch) and pots and pull each
of the connectors to the boards above and below the chassis cleaning
the pins as you go (work the plugs and pins several times on & off to
help the cleaning process). Also clean the relay sockets and any
other sockets ie tube sockets, SO239, 9-pin socket for VFO etc.
Corroded contacts just give you constant intermittent problems so
best to just clean them all then see where the rig stands. Dirty or
corroded relay contacts are also a source for intermittent transmit &
receive problems so those should also be cleaned.
>
> D.Windle
> ----- Original Message -----
> From: Steve
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, May 29, 2006 6:45 PM
> Subject: [TS-520_820_530_830] Bad Winter for the 820
>
>
> I switched my 820 on after a Winter in the shed and it didn't
want to
> play!
> At first switch on it would not tune on any of the bands and

the
> digital counter kept counting with the last two digits around a
set
> frequency.
> After leaving it on for a while the 160,80 and 40m bands
have come
> back to life leaving the higher bands still hunting and no
reception.
> The Mode doesn't affect the ailment and when I opened her up
there
> were no obvious signs of damage or loose wires.
> After I put it back I twisted the VFO switch a few times and
got
> a temporary reprieve for all of 5 minutes before I lost reception
again.
> Has anyone in the group had similar experiences- I suspect a
faulty
> connection because of the temporary reprieve- but I wouldnt know
wher
> to start.
> (The RF meter does register a signal from my TS50 when sent
but no
> intelligible audio)
> Steve , M1SPY
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ---

>
>
>

> [Non-text portions of this message have been removed]
>

7814. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 22:07:08 UTC
From: Gordon
Topic: 7767 Message: 7814

Hi Daniel,
I have NOT tried that yet, But I have been thinking of doing that. I
am Curious as to WHAT this add-on actually is.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Daniel" <schaeffler@...>
wrote:
>
> Hi Gordon
>
> What happen when you disconnect this add on board? Back to the roots!!
>
>
> Daniel, HB9DDS
>
>
> > I started to get into the Speech Processor today, But came upon
> > something Strange and Interesting. There is Something Soldered to the
> > Circuit side of the IF Board. It is some sort of add-on Board. I
> > checked out the 4 wires that are attached to it, and they tie into the
> > RF speech processor part of the IF board. I posted some Pictures of
> > this Unit. It does NOT appear to be in my schematics at all.
> > Go to this link and look over the pictures if you could, and let me
> > know what in heck this thing is. Has anyone ever seen one of these ?
> > Perhaps it is why my speech processor does Not work.
> > Link: http://www.n6wk.com/kenwood/820S/
> >
> > 1 wire ties into TP 4 on the IF board next to Q24,
> > the next wire ties into R113 R138 and R108, the Next ties into C39
> > and R140 and the last ties into D39, D40 and C133
> > I tried to take a close up picture of the Circuit side to help you.
> >
> > 73,
> > Gordon
>

7815. Re: [TS-520_820_530_830] Re: Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 22:48:48 UTC
From: Dennis Windle
Topic: 7805 Message: 7815

Steve;
Yep, that's just the way they react to dirty contacts, something works today then fails tomorrow or something doesn't work today but works tomorrow. As you flip the various switches and turn the pots trying to see what is working, sometimes they make good contact the next not so good. A good cleaning will save you alot of frustration. Methane may not be corrosive but the smell makes it uncomfortable to operate the rig, plus the finals may really light up HiHi!!!!

D.Windle
----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 30, 2006 5:35 PM
Subject: [TS-520_820_530_830] Re: Bad Winter for the 820

Hi Dennis
Thanks for the advice from yourself and the other folk.
Just to make an ass of me the old girl has decided to play again tonight and has spent more time behaving than not!
I did lube the switches last night and left them and this seems to have helped although she is still 'touchy' when moved.
All this would tend to agree with the bad contact diagnoses so I will take all your great advice and give her a good going over.
I guess she's got rheumatics and will have to spend next Winter some where warmer and dryer....perhaps the cow shed !!!
(All that methane is probably less corrosive than the North Sea air)
Thanks again,
Steve M1SPY.

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <windled@...> wrote:
>
> Steve;
> Since it spent the winter in the "shed" and looking at the type of problems you are having, there is a good chance some contacts in the rig have corroded (unless the shed is high & dry and no possible moisture got to the unit ?). In any case, the first thing I would do is get some De-Oxit and clean all the switches (pay special attention to the band switch and mode switch) and pots and pull each of the connectors to the boards above and below the chassis cleaning the pins as you go (work the plugs and pins several times on & off to help the cleaning process). Also clean the relay sockets and any other sockets ie tube sockets, SO239, 9-pin socket for VFO etc. Corroded contacts just give you constant intermittent problems so best to just clean them all then see where the rig stands. Dirty or corroded relay contacts are also a source for intermittent transmit &

receive problems so those should also be cleaned.
>
> D.Windle
> ----- Original Message -----
> From: Steve
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, May 29, 2006 6:45 PM
> Subject: [TS-520_820_530_830] Bad Winter for the 820
>
>
> I switched my 820 on after a Winter in the shed and it didn't
want to
> play!
> At first switch on it would not tune on any of the bands and
the
> digital counter kept counting with the last two digits around a
set
> frequency.
> After leaving it on for a while the 160,80 and 40m bands
have come
> back to life leaving the higher bands still hunting and no
reception.
> The Mode doesn't affect the ailment and when I opened her up
there
> were no obvious signs of damage or loose wires.
> After I put it back I twisted the VFO switch a few times and
got
> a temporary reprieve for all of 5 minutes before I lost reception
again.
> Has anyone in the group had similar experiences- I suspect a
faulty
> connection because of the temporary reprieve- but I wouldnt know
wher
> to start.
> (The RF meter does register a signal from my TS50 when sent
but no
> intelligible audio)
> Steve , M1SPY
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ---

> YAHOO! GROUPS LINKS
>

> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ----------

>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7816. On-Line Kenwood Manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-30 23:18:45 UTC
From: Gordon
Topic: 7816 Message: 7816

Thank You to EVERYONE that has been donating Manuals for my On-line Library. I appreciate it and they are FREE for anyone to download. No Limits.

http://www.n6wk.com/kenwood/

7817. Re: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 01:28:12 UTC
From: Pierre Wells
Topic: 7767 Message: 7817

Gorden I would carefully note wherethe connctions are and if any traces have been cut. Then I would try to remove it from the circuit and see what happens. Just make sure that you can return it to its original <modified> stata if the removal renders it silent
73
Peter VE2FAR

Daniel <schaeffler@...> wrote: Hi Gordon

What happen when you disconnect this add on board? Back to the roots!!

Daniel, HB9DDS

> I started to get into the Speech Processor today, But came upon
> something Strange and Interesting. There is Something Soldered to the
> Circuit side of the IF Board. It is some sort of add-on Board. I
> checked out the 4 wires that are attached to it, and they tie into the
> RF speech processor part of the IF board. I posted some Pictures of
> this Unit. It does NOT appear to be in my schematics at all.
> Go to this link and look over the pictures if you could, and let me
> know what in heck this thing is. Has anyone ever seen one of these ?
> Perhaps it is why my speech processor does Not work.
> Link: http://www.n6wk.com/kenwood/820S/
>
> 1 wire ties into TP 4 on the IF board next to Q24,
> the next wire ties into R113 R138 and R108, the Next ties into C39
> and R140 and the last ties into D39, D40 and C133
> I tried to take a close up picture of the Circuit side to help you.
>
> 73,
> Gordon

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Do you Yahoo!?

Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

7818. TS-530S Sudden Low Power - Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 01:40:30 UTC
From: Stephen Davis
Topic: 7818 Message: 7818

Hello All,

A week or so ago, I posted a problem to the group that concerned my TS-530S suddenly loosing about half its power and getting ripple on my CW output. The diagnosis was a bad power supply filter cap. I ordered replacement caps and this weekend replace the existing caps with the new ones. I hollowed out the old filter caps and place the new caps inside the old cans. That worked like a charm. Wired them up and did a smoke test and everything is working great and I am back up to full power with no ripple on my CW output. Hooray!!!

Thanks to everyone who assisted me in trouble shooting this problem.

So, while I still have it opened up, I have a question. The microphone receptacle on the front panel is loose. Not finding a nut on the back side to tighten, I am guessing the nut is between the face plate and the front of the chassis. Can anyone confirm this? If so, what are the gotcha's to look out for in removing the faceplate. I am particularly worried about the VFO knob and dial assembly. I would love to tighten up the microphone receptacle, but not at the risk of screwing up the VFO or something else.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

7819. Re: [TS-520_820_530_830] TS-530S Sudden Low Power - Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 02:20:24 UTC
From: Dennis Windle
Topic: 7818 Message: 7819

Stephen;
What was the Part number you ordered from Mouser for the caps ?

D.Windle
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 30, 2006 9:40 PM
Subject: [TS-520_820_530_830] TS-530S Sudden Low Power - Update

Hello All,

A week or so ago, I posted a problem to the group that concerned my TS-530S suddenly loosing about half its power and getting ripple on my CW output. The diagnosis was a bad power supply filter cap. I ordered replacement caps and this weekend replace the existing caps with the new ones. I hollowed out the old filter caps and place the new caps inside the old cans. That worked like a charm. Wired them up and did a smoke test and everything is working great and I am back up to full power with no ripple on my CW output. Hooray!!!

Thanks to everyone who assisted me in trouble shooting this problem.

So, while I still have it opened up, I have a question. The microphone receptacle on the front panel is loose. Not finding a nut on the back side to tighten, I am guessing the nut is between the face plate and the front of the chassis. Can anyone confirm this? If so, what are the gotcha's to look out for in removing the faceplate. I am particularly worried about the VFO knob and dial assembly. I would love to tighten up the microphone receptacle, but not at the risk of screwing up the VFO or something else.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7820. RE: [TS-520_820_530_830] TS-530S Sudden Low Power - Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 02:31:23 UTC
From: Stephen Davis
Topic: 7818 Message: 7820

Hello,

I actually purchased from Newark In One (www.newark.com). They had no handling charge and same day shipment. Great service. The sku# is 95F4424. The part was a United Chemicon Aluminum Electrolytic Capacitor: 100uf, 500v. You can go to the web site and enter the SKU# in the search by part number. They cost $2.84 apiece.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Dennis Windle
Sent: Tuesday, May 30, 2006 8:20 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-530S Sudden Low Power - Update

Stephen;
What was the Part number you ordered from Mouser for the caps ?

D.Windle
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 30, 2006 9:40 PM
Subject: [TS-520_820_530_830] TS-530S Sudden Low Power - Update

Hello All,

A week or so ago, I posted a problem to the group that concerned my TS-530S suddenly loosing about half its power and getting ripple on my CW output. The diagnosis was a bad power supply filter cap. I ordered replacement caps and this weekend replace the existing caps with the new ones. I hollowed out the old filter caps and place the new caps inside the old cans. That worked like a charm. Wired them up and did a smoke test and everything is working great and I am back up to full power with no ripple on my CW output. Hooray!!!

Thanks to everyone who assisted me in trouble shooting this problem.

So, while I still have it opened up, I have a question. The microphone receptacle on the front panel is loose. Not finding a nut on the back

side
to tighten, I am guessing the nut is between the face plate and the front
of
the chassis. Can anyone confirm this? If so, what are the gotcha's to
look
out for in removing the faceplate. I am particularly worried about the
VFO
knob and dial assembly. I would love to tighten up the microphone
receptacle, but not at the risk of screwing up the VFO or something else.

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

--
YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

--

[Non-text portions of this message have been removed]

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w
3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby
&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=
Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7821. Re: [TS-520_820_530_830] Re: Bad Winter for the 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 05:18:57 UTC
From: Charles Mortimer
Topic: 7805 Message: 7821

a little of topic
Charles calling
now that is a call sign to be proud of M1SPY has something to do with
M.I.5.
Charles GIFAK VP8BGX now VK6YCJ

----- Original Message -----
From: "Steve" <grewgrass@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, May 31, 2006 5:35 AM
Subject: [TS-520_820_530_830] Re: Bad Winter for the 820

Hi Dennis
Thanks for the advice from yourself and the other folk.
Just to make an ass of me the old girl has decided to play again
tonight and has spent more time behaving than not!
I did lube the switches last night and left them and this seems to
have helped although she is still 'touchy' when moved.
All this would tend to agree with the bad contact diagnoses so I
will take all your great advice and give her a good going over.
I guess she's got rheumatics and will have to spend next Winter
some where warmer and dryer....perhaps the cow shed !!!
(All that methane is probably less corrosive than the North Sea air)
Thanks again,
Steve M1SPY.

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
<windled@...> wrote:
>
> Steve;
> Since it spent the winter in the "shed" and looking at the
type of problems you are having, there is a good chance some contacts
in the rig have corroded (unless the shed is high & dry and no
possible moisture got to the unit ?). In any case, the first thing I
would do is get some De-Oxit and clean all the switches (pay special
attention to the band switch and mode switch) and pots and pull each
of the connectors to the boards above and below the chassis cleaning
the pins as you go (work the plugs and pins several times on & off to
help the cleaning process). Also clean the relay sockets and any
other sockets ie tube sockets, SO239, 9-pin socket for VFO etc.
Corroded contacts just give you constant intermittent problems so
best to just clean them all then see where the rig stands. Dirty or
corroded relay contacts are also a source for intermittent transmit &
receive problems so those should also be cleaned.
>
> D.Windle

> ----- Original Message -----
> From: Steve
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, May 29, 2006 6:45 PM
> Subject: [TS-520_820_530_830] Bad Winter for the 820
>
>
> I switched my 820 on after a Winter in the shed and it didn't
want to
> play!
> At first switch on it would not tune on any of the bands and
the
> digital counter kept counting with the last two digits around a
set
> frequency.
> After leaving it on for a while the 160,80 and 40m bands
have come
> back to life leaving the higher bands still hunting and no
reception.
> The Mode doesn't affect the ailment and when I opened her up
there
> were no obvious signs of damage or loose wires.
> After I put it back I twisted the VFO switch a few times and
got
> a temporary reprieve for all of 5 minutes before I lost reception
again.
> Has anyone in the group had similar experiences- I suspect a
faulty
> connection because of the temporary reprieve- but I wouldnt know
wher
> to start.
> (The RF meter does register a signal from my TS50 when sent
but no
> intelligible audio)
> Steve , M1SPY
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:

> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ----------

>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

7822. Re: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 10:11:51 UTC
From: Walt Breining
Topic: 7767 Message: 7822

What this is the olde W6TOG speech processor mod that turns the speech compressor into a clipper. It is not without merit. I have wanted to get a look at one, reverse engineer it, and analyze it's merits for quite some time. Unfortunately the mod itself has been tampered with in your rig. Hence the pot and the series resistor to TP. I would remove it for now and go back to the original circuit..

The power - is supplied by the solder connections to the ground foil to the IF board that mounts it.

1. The blue/Grey that goes to 14V can be removed as it is the power source. I think that this the wire that goes to R113, R138, and R 108.
2. The wire that goes to TP4 is the clipper input. Remove it
3. The wire that goes to C- 139 and R-140 is the clipper output. Remove it
4. The wire that goes to C-133 D39 and D40 is the source for the compression meter position of the multimeter. It also is the reference for the compressor gate that probably has been defeated by removal of R-105 and R-110. Remove it.

Now you will have some parts missing from the IF board where the input, output, and meter connections were made.

Around TP 4 check to see if C-133, c-139, and c140 are there.
See if R-110 is missing at the base of Q 24. See if R-105 is missing from the base of Q 23.

Check all components associated with Q-23, Q-24, and Q-25, also around Q 26 and Q 27 for any missing components. Replace any missing parts.

After doing the above, see if the processor works. If not, measure the voltages on these transistors and get back with me.

Vy 73, Walt N9WB
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, May 30, 2006 3:54 PM
Subject: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s

Hi Walt,
I started to get into the Speech Processor today, But came upon
something Strange and Interesting. There is Something Soldered to the
Circuit side of the IF Board. It is some sort of add-on Board. I
checked out the 4 wires that are attached to it, and they tie into the
RF speech processor part of the IF board. I posted some Pictures of
this Unit. It does NOT appear to be in my schematics at all.
Go to this link and look over the pictures if you could, and let me
know what in heck this thing is. Has anyone ever seen one of these ?
Perhaps it is why my speech processor does Not work.
Link: http://www.n6wk.com/kenwood/820S/

1 wire ties into TP 4 on the IF board next to Q24,
the next wire ties into R113 R138 and R108, the Next ties into C39
and R140 and the last ties into D39, D40 and C133
I tried to take a close up picture of the Circuit side to help you.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> Re: Speech Processor in the TS-820 s
>
> Gordon:
> I think I understood that you got the sidetone working but the
speech processor is still dead. You get transmit on SSB with the
processor off but loose it when the processor is on no mater how high
you turn the compression level control.
>
> The Processor circuit is on the IF board.
> This processor is a RF processor as it does the compressing at an RF
frequency rather than a audio frequency. It does, not work in the IF
but instead converts the audio to a sideband signal at a frequency of
455 kHz, compresses it as RF and then converts it back to audio. The
theory is that by doing this, the 455 kHz filters will remove the
harmonic distortion caused by hard limiting. When the processor is on,
Q-22 amplifies the audio and drives a balanced modulator. For the
balanced modulator to function it must be supplied a 455 kHz carrier
signal. This comes from carrier oscillator Q-28 and Q-29. The 455 kHz
carrier signal is on TP-1 and is applied to the balanced modulator
through C-130. It is also supplied to a product detector, by way of
C-133. After this process is complete, the product detector returns
the signal to an audio frequency. If you have a scope available,
please let me know. Otherwise measure the voltages on Q-28 and Q-29,
and then Q-23, Q-24, and Q-25. This should be done with the radio in
SSB transmit and the processor on.
>
> If the circuit is not getting the carrier oscillator signal, it will
not pass audio from input to output. Also check the small filters,
CF-1, CF-2, CF-3 for bad solder connections. Let me know what you find
and we can go from there.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 24, 2006 5:34 PM
> Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
>
>
> Hi Walt,
> Ok, I checked IF 1 Pin 6. When I key up on SSB with the Processor

> on, I get 9 volts on this wire and 0 volts when it is Off. Also, Yes,
> I can hear myself when The Minoitor is On .
>
> 73,
> Gordon
>
>
>
> [Non-text portions of this message have been removed]
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7823. Re: [TS-520_820_530_830] Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 14:52:22 UTC
From: The Bandit
Topic: 7799 Message: 7823

Jody:

Try Mike at N1EQ.COM. He did excellent work on my Kenwood equipment at very reasonable prices. He has high praise on eHam.

Lewis

Jody Mills <jody.mills@...> wrote:
I was originally going to send my non-working 520s to Byron Campbell, wa4geg, as I had once spoken to him about this radio and was going to send it in. But, things got busy and I never got around to sending it in.

Today I decided, dang it I'm going to get this done! So I went to his webpage to get his email address, only to find that he now only lists Yaesu equipment as equipment he accepts for repair. I've emailed him to ask if he will, in fact, accept my ts-520s or if he has completely narrowed his focus to Yaesu products.

While I wait for a reply, I thought I would ask you folks if you know of any reputable repair facilities that will work on an old Kenwood boat anchor. Repairing it myself is not an option, as I am just barely scratching the surface of amateur radio and currently know nothing of electronics. In time, of course, I intend to remedy that, but for right now my main concern is getting a budget-conscious hf setup for my home up and running for when I pass the General later this year.

Thanks!

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Yahoo! Messenger with Voice. PC-to-Phone calls for ridiculously low rates.

[Non-text portions of this message have been removed]

7824. Re: TS-530S Sudden Low Power - Update (HV Caps)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 15:41:02 UTC
From: james27613
Topic: 7818 Message: 7824

hi,

In the database section, the table PARTS has
data for replacement parts.

HV Caps from digikey are same diameter
as the OEM, just a bit shorter in height.

DIGIKEY P7453-ND

73 james ke4drn

7825. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 16:30:53 UTC
From: Gordon
Topic: 7767 Message: 7825

Hi Walt,
Ok, I carefully unsoldered the wires at the IF board from this
little unit. After getting it disconnected, I see labels on it for
C139, C133, TP, and 14V also a GND.
I checked the IF board for missing components. C139 is missing
along with C133. The resistors you mentioned are there. I also
noticed that it appears as if C23 was NEVER installed on this Board.
Is that Common?
I will replace the missing caps today and get back to you.
Do you want this Little unit to play with walt? I have No use for it.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> What this is the olde W6TOG speech processor mod that turns the
speech compressor into a clipper. It is not without merit. I have
wanted to get a look at one, reverse engineer it, and analyze it's
merits for quite some time. Unfortunately the mod itself has been
tampered with in your rig. Hence the pot and the series resistor to
TP. I would remove it for now and go back to the original circuit..
>
> The power - is supplied by the solder connections to the ground foil
to the IF board that mounts it.
>
> 1. The blue/Grey that goes to 14V can be removed as it is the power
source. I think that this the wire that goes to R113, R138, and R 108.
> 2. The wire that goes to TP4 is the clipper input. Remove it
> 3. The wire that goes to C- 139 and R-140 is the clipper output.
Remove it
> 4. The wire that goes to C-133 D39 and D40 is the source for the
compression meter position of the multimeter. It also is the reference
for the compressor gate that probably has been defeated by removal of
R-105 and R-110. Remove it.
>
> Now you will have some parts missing from the IF board where the
input, output, and meter connections were made.
>
> Around TP 4 check to see if C-133, c-139, and c140 are there.
> See if R-110 is missing at the base of Q 24. See if R-105 is missing
from the base of Q 23.
>
> Check all components associated with Q-23, Q-24, and Q-25, also
around Q 26 and Q 27 for any missing components. Replace any missing

parts.
>
> After doing the above, see if the processor works. If not, measure
the voltages on these transistors and get back with me.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, May 30, 2006 3:54 PM
> Subject: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s
>
>
> Hi Walt,
> I started to get into the Speech Processor today, But came upon
> something Strange and Interesting. There is Something Soldered to the
> Circuit side of the IF Board. It is some sort of add-on Board. I
> checked out the 4 wires that are attached to it, and they tie into the
> RF speech processor part of the IF board. I posted some Pictures of
> this Unit. It does NOT appear to be in my schematics at all.
> Go to this link and look over the pictures if you could, and let me
> know what in heck this thing is. Has anyone ever seen one of these ?
> Perhaps it is why my speech processor does Not work.
> Link: http://www.n6wk.com/kenwood/820S/
>
> 1 wire ties into TP 4 on the IF board next to Q24,
> the next wire ties into R113 R138 and R108, the Next ties into C39
> and R140 and the last ties into D39, D40 and C133
> I tried to take a close up picture of the Circuit side to help you.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > Re: Speech Processor in the TS-820 s
> >
> > Gordon:
> > I think I understood that you got the sidetone working but the
> speech processor is still dead. You get transmit on SSB with the
> processor off but loose it when the processor is on no mater how high
> you turn the compression level control.
> >
> > The Processor circuit is on the IF board.
> > This processor is a RF processor as it does the compressing at an RF
> frequency rather than a audio frequency. It does, not work in the IF
> but instead converts the audio to a sideband signal at a frequency of
> 455 kHz, compresses it as RF and then converts it back to audio. The
> theory is that by doing this, the 455 kHz filters will remove the

> harmonic distortion caused by hard limiting. When the processor is on,
> Q-22 amplifies the audio and drives a balanced modulator. For the
> balanced modulator to function it must be supplied a 455 kHz carrier
> signal. This comes from carrier oscillator Q-28 and Q-29. The 455 kHz
> carrier signal is on TP-1 and is applied to the balanced modulator
> through C-130. It is also supplied to a product detector, by way of
> C-133. After this process is complete, the product detector returns
> the signal to an audio frequency. If you have a scope available,
> please let me know. Otherwise measure the voltages on Q-28 and Q-29,
> and then Q-23, Q-24, and Q-25. This should be done with the radio in
> SSB transmit and the processor on.
> >
> > If the circuit is not getting the carrier oscillator signal, it will
> not pass audio from input to output. Also check the small filters,
> CF-1, CF-2, CF-3 for bad solder connections. Let me know what you find
> and we can go from there.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, May 24, 2006 5:34 PM
> > Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
> >
> >
> > Hi Walt,
> > Ok, I checked IF 1 Pin 6. When I key up on SSB with the
Processor
> > on, I get 9 volts on this wire and 0 volts when it is Off.
Also, Yes,
> > I can hear myself when The Minoitor is On .
> >
> > 73,
> > Gordon
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
>

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>

7826. RE: [TS-520_820_530_830] Re: TS-530S Sudden Low Power - Update (HV Caps)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 16:47:21 UTC
From: Stephen Davis
Topic: 7818 Message: 7826

Hi James,

The Digikey P7453-ND capacitor has a diameter of 35mm. The original capacitor (at least in my radio) has a diameter of about 42mm. The replacement I used had a diameter of 25mm and once the old capacitor can was cleaned out (a messy, time consuming job) the new capacitor fit inside very nicely. Although I was leery of this solution at first, I am really happy with the results. Despite the new capacitors, the radio retains the original appearance.

73

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of james27613
Sent: Wednesday, May 31, 2006 9:41 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-530S Sudden Low Power - Update (HV Caps)

hi,

In the database section, the table PARTS has
data for replacement parts.

HV Caps from digikey are same diameter
as the OEM, just a bit shorter in height.

DIGIKEY P7453-ND

73 james ke4drn

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w>
and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7827. Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 18:01:35 UTC
From: Ellen R
Topic: 7768 Message: 7827

Hi Bob,

Thanks for the info. I always figured that since they weren't designed for transmitting applications, that they were being pushed hard, when they wer being used foor transmitting. Hmmm, you learn something new everyday.

73,
Ellen - AF9J

P.S. - did my card arrive in the mail to you?

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> Actually, the finals in the Yaesu FT-101 are not run hard at all. They are
> 6JS6C tubes and are much larger than the 6146. In the Yaesu they are run at
> about 260 watts peak SSB input, whereas they are capable of at least twice that
> amount. They have a maximum current rating of 350 ma per tube continuous duty
> in tv service, which would be the approximate maximum rating for peak plate
> current in SSB service.
>

> In a Galaxy V MKIII, (they are
> a drop-in replacement for the original 6LB6) they will put out well over
> 300 watts (more than 500 watts peak input, just slightly less than the 6LB6).
> At this power level, assuming normal duty cyle for SSB transmission, they will
> be dissipating well under their rated 30 watts of plate dissipation. In the
> FT-101, the tubes will be practically loafing along with less than half that
> amount of plate dissipation. They usually last many years in that service.
>
> Having said that, the 6146 is still a much better tube because it was
> designed for transmitting, rather than television service, even thought it is capable

> of only about half the power of a 6JS6C.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7828. Re: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 19:28:25 UTC
From: bob54quam@cs.com
Topic: 7768 Message: 7828

You're welcome Ellen,
The key to using sweep tubes (and any tubes) is quick and proper tuning. The two 6LX6 tubes in my linear amp have been there for eleven years and are still like new.
I received the card. Thanks!
Bob
KI0KM

[Non-text portions of this message have been removed]

7829. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-05-31 23:17:05 UTC
From: Gordon
Topic: 7767 Message: 7829

Walt and Group,

I replaced the missing C139 and C133 Caps. Fired up the rig and Presto
The Processor now works.
I am curious. On these rigs is it normal for the Dial to be Off
from one end to the other. What I mean is, If I adjust the dial to
read 14.000 when The digital display says 14.000 then I go to say
14.300 on the digital display, is it normal for the Analog dial to be
1 or 2 kc's off ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Walt,
> Ok, I carefully unsoldered the wires at the IF board from this
> little unit. After getting it disconnected, I see labels on it for
> C139, C133, TP, and 14V also a GND.
> I checked the IF board for missing components. C139 is missing
> along with C133. The resistors you mentioned are there. I also
> noticed that it appears as if C23 was NEVER installed on this Board.
> Is that Common?
> I will replace the missing caps today and get back to you.
> Do you want this Little unit to play with walt? I have No use for it.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > What this is the olde W6TOG speech processor mod that turns the
> speech compressor into a clipper. It is not without merit. I have
> wanted to get a look at one, reverse engineer it, and analyze it's
> merits for quite some time. Unfortunately the mod itself has been
> tampered with in your rig. Hence the pot and the series resistor to
> TP. I would remove it for now and go back to the original circuit..
> >
> > The power - is supplied by the solder connections to the ground foil
> to the IF board that mounts it.
> >
> > 1. The blue/Grey that goes to 14V can be removed as it is the power
> source. I think that this the wire that goes to R113, R138, and R 108.
> > 2. The wire that goes to TP4 is the clipper input. Remove it
> > 3. The wire that goes to C- 139 and R-140 is the clipper output.
> Remove it
> > 4. The wire that goes to C-133 D39 and D40 is the source for the

> compression meter position of the multimeter. It also is the reference
> for the compressor gate that probably has been defeated by removal of
> R-105 and R-110. Remove it.
> >
> > Now you will have some parts missing from the IF board where the
> input, output, and meter connections were made.
> >
> > Around TP 4 check to see if C-133, c-139, and c140 are there.
> > See if R-110 is missing at the base of Q 24. See if R-105 is missing
> from the base of Q 23.
> >
> > Check all components associated with Q-23, Q-24, and Q-25, also
> around Q 26 and Q 27 for any missing components. Replace any missing
> parts.
> >
> > After doing the above, see if the processor works. If not, measure
> the voltages on these transistors and get back with me.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 30, 2006 3:54 PM
> > Subject: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s
> >
> >
> > Hi Walt,
> > I started to get into the Speech Processor today, But came upon
> > something Strange and Interesting. There is Something Soldered
to the
> > Circuit side of the IF Board. It is some sort of add-on Board. I
> > checked out the 4 wires that are attached to it, and they tie
into the
> > RF speech processor part of the IF board. I posted some Pictures of
> > this Unit. It does NOT appear to be in my schematics at all.
> > Go to this link and look over the pictures if you could, and let me
> > know what in heck this thing is. Has anyone ever seen one of these ?
> > Perhaps it is why my speech processor does Not work.
> > Link: http://www.n6wk.com/kenwood/820S/
> >
> > 1 wire ties into TP 4 on the IF board next to Q24,
> > the next wire ties into R113 R138 and R108, the Next ties into C39
> > and R140 and the last ties into D39, D40 and C133
> > I tried to take a close up picture of the Circuit side to help you.
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:

> > >
> > > Re: Speech Processor in the TS-820 s
> > >
> > > Gordon:
> > > I think I understood that you got the sidetone working but the
> > speech processor is still dead. You get transmit on SSB with the
> > processor off but loose it when the processor is on no mater how
high
> > you turn the compression level control.
> > >
> > > The Processor circuit is on the IF board.
> > > This processor is a RF processor as it does the compressing at
an RF
> > frequency rather than a audio frequency. It does, not work in the IF
> > but instead converts the audio to a sideband signal at a
frequency of
> > 455 kHz, compresses it as RF and then converts it back to audio. The
> > theory is that by doing this, the 455 kHz filters will remove the
> > harmonic distortion caused by hard limiting. When the processor
is on,
> > Q-22 amplifies the audio and drives a balanced modulator. For the
> > balanced modulator to function it must be supplied a 455 kHz carrier
> > signal. This comes from carrier oscillator Q-28 and Q-29. The
455 kHz
> > carrier signal is on TP-1 and is applied to the balanced modulator
> > through C-130. It is also supplied to a product detector, by
way of
> > C-133. After this process is complete, the product detector returns
> > the signal to an audio frequency. If you have a scope available,
> > please let me know. Otherwise measure the voltages on Q-28 and Q-29,
> > and then Q-23, Q-24, and Q-25. This should be done with the radio in
> > SSB transmit and the processor on.
> > >
> > > If the circuit is not getting the carrier oscillator signal,
it will
> > not pass audio from input to output. Also check the small filters,
> > CF-1, CF-2, CF-3 for bad solder connections. Let me know what
you find
> > and we can go from there.
> > >
> > > Vy 73, Walt N9WB
> > > ----- Original Message -----
> > > From: Gordon
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Wednesday, May 24, 2006 5:34 PM
> > > Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
> > >
> > >
> > > Hi Walt,
> > > Ok, I checked IF 1 Pin 6. When I key up on SSB with the

> Processor
> > > on, I get 9 volts on this wire and 0 volts when it is Off.
> Also, Yes,
> > > I can hear myself when The Minoitor is On .
> > >
> > > 73,
> > > Gordon
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> >
>

> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
> >
> >
> >
>

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

7831. Anyone using /has used a TS-820S VFO stabilizer?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 00:48:40 UTC
From: Dimitri
Topic: 7831 Message: 7831

...such as the one described here?

http://home.wanadoo.nl/cmulder/ksbstabi.htm or

http://home.wanadoo.nl/cmulder/drake.htm#bookmark4

Dimitri

7832. Re: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 07:58:40 UTC
From: Walt Breining
Topic: 7767 Message: 7832

Is it normal for the Analog dial to be
1 or 2 kc's off ? Yes.

N9WB Walt

Glad that you got the processor going!

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, May 31, 2006 6:17 PM
Subject: [TS-520_820_530_830] Re: Speech Processor in the TS-820 s

Walt and Group,

I replaced the missing C139 and C133 Caps. Fired up the rig and Presto
The Processor now works.
I am curious. On these rigs is it normal for the Dial to be Off
from one end to the other. What I mean is, If I adjust the dial to
read 14.000 when The digital display says 14.000 then I go to say
14.300 on the digital display, is it normal for the Analog dial to be
1 or 2 kc's off ?

Gordon

[Non-text portions of this message have been removed]

7833. Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 17:18:20 UTC
From: Ellen R
Topic: 7768 Message: 7833

You're welcome Bob. :)

Yeah, I guess I was thinking of a Swan Cygnet I briefly used in 1993. With it's sweep tube final, you had to be pretty quick with tuning it up, otherwise the final had a short life.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> You're welcome Ellen,
> The key to using sweep tubes (and any tubes) is quick and proper tuning. The
> two 6LX6 tubes in my linear amp have been there for eleven years and are
> still like new.
> I received the card. Thanks!
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7834. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 17:25:16 UTC
From: Ellen R
Topic: 7767 Message: 7834

Hi Gordon,

In my experience with my TS-820 (and other analog dial rigs I've owned), yep, that's pretty normal. If you insist upon the best accuracy with just an analog dial, you use the crystal calibrator, to calibrate the dial in the vicinity of the frequency you plan on operating on. Also, calibrating at say 7.150, instead of say 7.000, or 7.300, helps to keep lower the amount the dial is off at the band edges. Basically, I just do like the old timers did, I try not to hug the band edge. Otherwise, use a digital frequency counter/readout.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Walt and Group,
>
> I replaced the missing C139 and C133 Caps. Fired up the rig and
Presto
> The Processor now works.
> I am curious. On these rigs is it normal for the Dial to be
Off
> from one end to the other. What I mean is, If I adjust the dial to
> read 14.000 when The digital display says 14.000 then I go to say
> 14.300 on the digital display, is it normal for the Analog dial to
be
> 1 or 2 kc's off ?
>
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Walt,
> > Ok, I carefully unsoldered the wires at the IF board from this
> > little unit. After getting it disconnected, I see labels on it for
> > C139, C133, TP, and 14V also a GND.
> > I checked the IF board for missing components. C139 is missing
> > along with C133. The resistors you mentioned are there. I also
> > noticed that it appears as if C23 was NEVER installed on this
Board.
> > Is that Common?
> > I will replace the missing caps today and get back to you.
> > Do you want this Little unit to play with walt? I have No use

for it.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > What this is the olde W6TOG speech processor mod that turns the
> > speech compressor into a clipper. It is not without merit. I have
> > wanted to get a look at one, reverse engineer it, and analyze it's
> > merits for quite some time. Unfortunately the mod itself has
been
> > tampered with in your rig. Hence the pot and the series resistor
to
> > TP. I would remove it for now and go back to the original
circuit..
> > >
> > > The power - is supplied by the solder connections to the ground
foil
> > to the IF board that mounts it.
> > >
> > > 1. The blue/Grey that goes to 14V can be removed as it is the
power
> > source. I think that this the wire that goes to R113, R138, and R
108.
> > > 2. The wire that goes to TP4 is the clipper input. Remove it
> > > 3. The wire that goes to C- 139 and R-140 is the clipper output.
> > Remove it
> > > 4. The wire that goes to C-133 D39 and D40 is the source for the
> > compression meter position of the multimeter. It also is the
reference
> > for the compressor gate that probably has been defeated by
removal of
> > R-105 and R-110. Remove it.
> > >
> > > Now you will have some parts missing from the IF board where the
> > input, output, and meter connections were made.
> > >
> > > Around TP 4 check to see if C-133, c-139, and c140 are there.
> > > See if R-110 is missing at the base of Q 24. See if R-105 is
missing
> > from the base of Q 23.
> > >
> > > Check all components associated with Q-23, Q-24, and Q-25, also
> > around Q 26 and Q 27 for any missing components. Replace any
missing
> > parts.
> > >
> > > After doing the above, see if the processor works. If not,
measure

> > the voltages on these transistors and get back with me.
> > >
> > > Vy 73, Walt N9WB
> > > ----- Original Message -----
> > > From: Gordon
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, May 30, 2006 3:54 PM
> > > Subject: [TS-520_820_530_830] Re: Speech Processor in the TS-
820 s
> > >
> > >
> > > Hi Walt,
> > > I started to get into the Speech Processor today, But came
upon
> > > something Strange and Interesting. There is Something
Soldered
> to the
> > > Circuit side of the IF Board. It is some sort of add-on
Board. I
> > > checked out the 4 wires that are attached to it, and they tie
> into the
> > > RF speech processor part of the IF board. I posted some
Pictures of
> > > this Unit. It does NOT appear to be in my schematics at all.
> > > Go to this link and look over the pictures if you could, and
let me
> > > know what in heck this thing is. Has anyone ever seen one of
these ?
> > > Perhaps it is why my speech processor does Not work.
> > > Link: http://www.n6wk.com/kenwood/820S/
> > >
> > > 1 wire ties into TP 4 on the IF board next to Q24,
> > > the next wire ties into R113 R138 and R108, the Next ties
into C39
> > > and R140 and the last ties into D39, D40 and C133
> > > I tried to take a close up picture of the Circuit side to
help you.
> > >
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@>
> > > wrote:
> > > >
> > > > Re: Speech Processor in the TS-820 s
> > > >
> > > > Gordon:
> > > > I think I understood that you got the sidetone working but
the

> > > speech processor is still dead. You get transmit on SSB with
the
> > > processor off but loose it when the processor is on no mater
how
> high
> > > you turn the compression level control.
> > > >
> > > > The Processor circuit is on the IF board.
> > > > This processor is a RF processor as it does the compressing
at
> an RF
> > > frequency rather than a audio frequency. It does, not work in
the IF
> > > but instead converts the audio to a sideband signal at a
> frequency of
> > > 455 kHz, compresses it as RF and then converts it back to
audio. The
> > > theory is that by doing this, the 455 kHz filters will remove
the
> > > harmonic distortion caused by hard limiting. When the
processor
> is on,
> > > Q-22 amplifies the audio and drives a balanced modulator. For
the
> > > balanced modulator to function it must be supplied a 455 kHz
carrier
> > > signal. This comes from carrier oscillator Q-28 and Q-29. The
> 455 kHz
> > > carrier signal is on TP-1 and is applied to the balanced
modulator
> > > through C-130. It is also supplied to a product detector, by
> way of
> > > C-133. After this process is complete, the product detector
returns
> > > the signal to an audio frequency. If you have a scope
available,
> > > please let me know. Otherwise measure the voltages on Q-28
and Q-29,
> > > and then Q-23, Q-24, and Q-25. This should be done with the
radio in
> > > SSB transmit and the processor on.
> > > >
> > > > If the circuit is not getting the carrier oscillator signal,
> it will
> > > not pass audio from input to output. Also check the small
filters,
> > > CF-1, CF-2, CF-3 for bad solder connections. Let me know what
> you find
> > > and we can go from there.
> > > >

> > > > Vy 73, Walt N9WB
> > > > ----- Original Message -----
> > > > From: Gordon
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Wednesday, May 24, 2006 5:34 PM
> > > > Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-
820S
> > > >
> > > >
> > > > Hi Walt,
> > > > Ok, I checked IF 1 Pin 6. When I key up on SSB with
the
> > Processor
> > > > on, I get 9 volts on this wire and 0 volts when it is Off.
> > Also, Yes,
> > > > I can hear myself when The Minoitor is On .
> > > >
> > > > 73,
> > > > Gordon
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > SPONSORED LINKS Ham radio Craft hobby Hobby and craft
supply
> > >
> > >
> > >
> >
> ---

> > > YAHOO! GROUPS LINKS
> > >
> > > a.. Visit your group "TS-520_820_530_830" on the web.
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > TS-520_820_530_830-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo!
Terms of
> > Service.
> > >
> > >

> > >
> >
> --

> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

7835. Ken's Electronics microphones for Kenwood hybrids - the verdict

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 17:33:44 UTC
From: Ellen R
Topic: 7835 Message: 7835

Hi Everybody,

Some time ago, I promised you that I'd let you know how well the hand mic I got from Ken's Electronics worked with my TS-820. Here's my verdict. Ergonomically it's OK (although I wish the PTT switch spring was less stiff,and that maybe the housing was a little smaller). Audiowise - I've gotten good reports on my audio. I've also used the monitor to to self-check my audio, and it sound better than some of the newer rigs I've had in the last decade or so. I run the processor all of the time (I've always been a maniac about seriously watching my ALC when I use a processor, since too much ALC and compression not only causes a lot of spurs, it sounds awful), so if a mic works decently with a processor, then it's fine by me. The price was right for the mic. The delivery time was good. I have no complaints, it was a good buy for me.

73,
Ellen - AF9J

7836. How to calibrate really and exactly?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 19:36:32 UTC
From: Daniel
Topic: 7767 Message: 7836

Hi folks

".. If you insist upon the best accuracy with just an analog dial, you use the crystal calibrator,
to calibrate the dial in the vicinity of the frequency you plan on operating on..."

I have a TS-520S and would like to know, how I have to use the "25 KHz-CAL" Switch correctly (the hole procedure!). I'm not shure about (USB/LSB or CW, tone etc".

Daniel, HB9DDS

7837. How to calibrate really and exactly?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 19:36:40 UTC
From: Daniel
Topic: 7767 Message: 7837

Hi folks

".. If you insist upon the best accuracy with just an analog dial, you use the crystal calibrator,
to calibrate the dial in the vicinity of the frequency you plan on operating on..."

I have a TS-520S and would like to know, how I have to use the "25 KHz-CAL" Switch correctly (the whole procedure!). I'm not shure about (USB/LSB or CW, tone etc".

Daniel, HB9DDS

7838. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 19:36:04 UTC
From: Daniel
Topic: 7767 Message: 7838

Hi folks

".. If you insist upon the best accuracy with just an analog dial, you use the crystal calibrator,
to calibrate the dial in the vicinity of the frequency you plan on operating on..."

I have a TS-520S and would like to know, how I have to use the "25 KHz-CAL" Switch correctly (the hole procedure!). I'm not shure about (USB/LSB or CW, tone etc".

Daniel, HB9DDS

7839. TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-01 23:22:25 UTC
From: digs4ruff
Topic: 7839 Message: 7839

Still trying to figure out how to adjust this rig properly and have a couple of questions where the manual is a little short on explanation.

"MIC GAIN KNOB
This knob is used for adjustment of the gain of MIC amplifier during SSB operation. Adjust so that the meter pointer does not deflect beyond the ALC zone."

I assume this means tune the rig first and have the mode switch in USB or LSB and speak normally into the mic. The needle should stay within the ALC zone but what position is the meter switch in? With MIC GAIN fully clockwise and meter in RF position I barely see half deflection on ALC scale. With meter in ALC position I see full scale deflection.

"COMP LEVEL
Adjust the state of compression by turning the knob while observing the COMP meter."

Can this be translated to layman terms so that I might understand what needle reading I am aiming for on which scale? In USB & Meter set to COMP and COMP LEVEL max CW when I speak I see deflection about 2/3 of ALC scale. What should I be setting this to as my goal.

Tnx & 73s
Barry
VA7GEM

7840. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 00:11:24 UTC
From: Gordon
Topic: 7839 Message: 7840

Barry, When you adjust the Mic control, be is SSB position (either USB or LSB) and put the Meter switch in ALC position. Then adjust the Mic control while speaking Normally into the Mic to stay within the ALC range. This is all done AFTER you have done the Tune and The CW position Loading.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Still trying to figure out how to adjust this rig properly and have
> a couple of questions where the manual is a little short on
> explanation.
>
> "MIC GAIN KNOB
> This knob is used for adjustment of the gain of MIC amplifier during
> SSB operation. Adjust so that the meter pointer does not deflect
> beyond the ALC zone."
>
> I assume this means tune the rig first and have the mode switch in
> USB or LSB and speak normally into the mic. The needle should stay
> within the ALC zone but what position is the meter switch in? With
> MIC GAIN fully clockwise and meter in RF position I barely see half
> deflection on ALC scale. With meter in ALC position I see full scale
> deflection.
>
> "COMP LEVEL
> Adjust the state of compression by turning the knob while observing
> the COMP meter."
>
> Can this be translated to layman terms so that I might understand
> what needle reading I am aiming for on which scale? In USB & Meter
> set to COMP and COMP LEVEL max CW when I speak I see deflection
> about 2/3 of ALC scale. What should I be setting this to as my goal.
>
> Tnx & 73s
> Barry
> VA7GEM
>

7841. Re: TS-530S Sudden Low Power - Update (HV Caps)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 00:33:27 UTC
From: james27613
Topic: 7818 Message: 7841

hi steve,

did you use anything to hold the new caps
inside the old empty cans or just fitted them
over the replacements ?

73 james

7842. RE: [TS-520_820_530_830] Re: TS-530S Sudden Low Power - Update (HV Caps)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 00:53:02 UTC
From: Stephen Davis
Topic: 7818 Message: 7842

Hi James,

I used clear silicone seal to hold the new capacitors in place. It worked really well. Because of the number of connections to the old capacitors and the small size of the lugs on the new capcitor, I had to put a terminal strip in place and wired most of the connections to the capacitors to that . I can send you a picture of the final layout if you wish.

73's

Steve

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of james27613
Sent: Thursday, June 01, 2006 6:33 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-530S Sudden Low Power - Update (HV Caps)

hi steve,

did you use anything to hold the new caps
inside the old empty cans or just fitted them
over the replacements ?

73 james

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w> and craft supply

---

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7843. good news from my little collection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 08:19:16 UTC
From: Kay Groß
Topic: 7843 Message: 7843

Hello to all,

after a while of silence from my side,
I had the chance to get a good looking TS820
and other accessories for a line.
I do also now have a second R-820 in
good condition with a lot of optional filters.
In works all good ,only a switch in the TS820
needs some deoxit.If you want to have a look
at them , here is the address: www.pbase.com/dl5oaq

73 Kay DL5OAQ

7844. TS 520 smokin..... help!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 13:16:38 UTC
From: m_m_maxau
Topic: 7844 Message: 7844

Hey guys from Australia

I have a nice old TS520 that I am restoring.

I had an idea that the 6146's were a bit tired, power falling off etc.

Anyway, had a play tonight and the radio started making an electrical arcing noise, the lights all dimmed and the thing smoked from the fan on the rear.

I pulled the top off and it seems that one of the 6146's is arcing quite badly (and I guess pulling huge amps/volts out of the plate).

My question is this:

Is this a common way that these tubes die?

I think this radio has had a real hard life before I got it (from e bay of course)

Has anyone ever had this happen or is there another cause?

73's

Max

7845. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 15:36:25 UTC
From: digs4ruff
Topic: 7839 Message: 7845

Gordon
TVM Now all I need is an on-air confirmation but the bands are seldom open in Vancouver. Can anyone help with the setting of the processor.
thanks
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Barry, When you adjust the Mic control, be is SSB position (either
> USB or LSB) and put the Meter switch in ALC position. Then adjust the
> Mic control while speaking Normally into the Mic to stay within the
> ALC range. This is all done AFTER you have done the Tune and The CW
> position Loading.
>
> 73,
> Gordon
> N6WK
>
> >
> > "COMP LEVEL
> > Adjust the state of compression by turning the knob while observing
> > the COMP meter."
> >
> > Can this be translated to layman terms so that I might understand
> > what needle reading I am aiming for on which scale? In USB & Meter
> > set to COMP and COMP LEVEL max CW when I speak I see deflection
> > about 2/3 of ALC scale. What should I be setting this to as my goal.
> >
> > Tnx & 73s
> > Barry
> > VA7GEM
> >
>

7846. Re: good news from my little collection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 16:32:42 UTC
From: Gordon
Topic: 7843 Message: 7846

Very Nice Pictures Kay,
You sure have a collection there.
I'm jealous of your Kenwood setups !

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Kay Groß <kaygross@...> wrote:
>
> Hello to all,
>
> after a while of silence from my side,
> I had the chance to get a good looking TS820
> and other accessories for a line.
> I do also now have a second R-820 in
> good condition with a lot of optional filters.
> In works all good ,only a switch in the TS820
> needs some deoxit.If you want to have a look
> at them , here is the address: www.pbase.com/dl5oaq
>
> 73 Kay DL5OAQ
>

7847. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 16:46:20 UTC
From: Gordon
Topic: 7839 Message: 7847

I adjust my COMP to read about 10 on peaks, but as you already know,
On the Air tests will be most valuable.

Good Luck,
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Gordon
> TVM Now all I need is an on-air confirmation but the bands are
> seldom open in Vancouver. Can anyone help with the setting of the
> processor.
> thanks
> Barry
> VA7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Barry, When you adjust the Mic control, be is SSB position (
> either
> > USB or LSB) and put the Meter switch in ALC position. Then adjust
> the
> > Mic control while speaking Normally into the Mic to stay within the
> > ALC range. This is all done AFTER you have done the Tune and The CW
> > position Loading.
> >
> > 73,
> > Gordon
> > N6WK
> >
> > >
> > > "COMP LEVEL
> > > Adjust the state of compression by turning the knob while
> observing
> > > the COMP meter."
> > >
> > > Can this be translated to layman terms so that I might
> understand
> > > what needle reading I am aiming for on which scale? In USB &
> Meter
> > > set to COMP and COMP LEVEL max CW when I speak I see deflection
> > > about 2/3 of ALC scale. What should I be setting this to as my
> goal.

> > >
> > > Tnx & 73s
> > > Barry
> > > VA7GEM
> > >
> >
>

7848. Re: [TS-520_820_530_830] good news from my little collection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 17:23:26 UTC
From: Pierre Wells
Topic: 7843 Message: 7848

Kay
You have a beautiful collection. I also collect Yaesus, Kenwoods and even a few Drakes....oh yes and a Heathkit SB 102. I don't have a web page of my babies yet.
73
Peter VE2FAR

Kay Groï¿½ <kaygross@...> wrote: Hello to all,

after a while of silence from my side,
I had the chance to get a good looking TS820
and other accessories for a line.
I do also now have a second R-820 in
good condition with a lot of optional filters.
In works all good ,only a switch in the TS820
needs some deoxit.If you want to have a look
at them , here is the address: www.pbase.com/dl5oaq

73 Kay DL5OAQ

SPONSORED LINKS
Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

Visit your group "TS-520_820_530_830" on the web.

To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

7849. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 18:35:58 UTC
From: pchapman9202003
Topic: 6191 Message: 7849

I know this is an old post, but comment anyway. I had a TR3 for many years and the dip on the 6JB6 finals was extrememly pronounced, narrow, and more obvious than on my 820s. Do not know if that was a characteristic of Drake or just the sweep finals that it used. Bought it new, but is in mothballs with blown caps from living in improper storage ina damp environment. The copper chassis did not help much either. Going to be selling it a a parts rig soon. My 718 Icom has put the 820s into backup rig status as it is so easy for an old guy to operate, HI!

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Bill,
>
> Yes I do. This is actually my 5th tube or hybrid rig I've owned in
> my 28 years as a ham. I've always tuned up into a dummy load first.
> The strange thing is that I don't get much of a plate current dip.
> But this may be normal. My memory may be failing me on this. But I
> think even when I used the TS-830S at W9YT (the Univ. of WI ham
> club's station) in '86 & 87, there wasn't much Plate Currnt dip on
> it. I'm just not 100% sure on this recollection.
>
> It's possible that I may be used to seeing the major plate current
> dip I used to get out of the Drake T4XC I used to have years ago (or
> the FT-101B I had in college, which also had a pretty noticeable
> plate dip). I'm gonna recheck the dummy load output again today (I'm
> off of work today, and for a change, I'm not in a hurry to get things
> tuned up for a sked). I'm pretty sure that I'm getting 70-90W output.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill Richarz
> <billn4dh@> wrote:
> >
> > Have you tried using a dummy load to get a
> > dip and and then adjust in RF meter position
> > for maximum smoke or appox. 100 watts?
> >

> > 73 de Bill, N4DH
> >
> > --- Ellen R <ellenjoanne2003@> wrote:
> >
> > > I'm happy with my 6146Ws too. I guess I'm just
> > > wondering why output
> > > power seems kind of low, and why I can't get a
> > > pronounced plate
> > > current dip, when I tune.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> > > <crousseau@> wrote:
> > > >
> > > > Yes we do still have 6146B's available singly or
> > > in matched pairs.
> > > You are correct in that they are getting very scarce
> > > and pricey.
> > > While we have a good supply of "W's", the "B's" are
> > > in very short
> > > supply. Not trying to drum up sales with scare
> > > tactics here, it's
> > > just the reality of the situation. BTW, I use the
> > > 6146W's in my
> > > 520SE and I'm perfectly happy with them.
> > > > >
> > > > > From: "Ellen R" <ellenjoanne2003@>
> > > > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been
> > > removed]
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > _____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection around

> > http://mail.yahoo.com
> >
>

7850. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 18:40:08 UTC
From: Gordon
Topic: 6191 Message: 7850

My 820 has a very pronounced dip when Tuning. It also is putting out
right at 120 watts on 20 meters.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
<p_chap@...> wrote:
>
> I know this is an old post, but comment anyway. I had a TR3 for many
> years and the dip on the 6JB6 finals was extrememly pronounced,
> narrow, and more obvious than on my 820s. Do not know if that was a
> characteristic of Drake or just the sweep finals that it used. Bought
> it new, but is in mothballs with blown caps from living in improper
> storage ina damp environment. The copper chassis did not help much
> either. Going to be selling it a a parts rig soon. My 718 Icom has
> put the 820s into backup rig status as it is so easy for an old guy
> to operate, HI!
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > Yes I do. This is actually my 5th tube or hybrid rig I've owned in
> > my 28 years as a ham. I've always tuned up into a dummy load
> first.
> > The strange thing is that I don't get much of a plate current dip.
> > But this may be normal. My memory may be failing me on this. But I
> > think even when I used the TS-830S at W9YT (the Univ. of WI ham
> > club's station) in '86 & 87, there wasn't much Plate Currnt dip on
> > it. I'm just not 100% sure on this recollection.
> >
> > It's possible that I may be used to seeing the major plate current
> > dip I used to get out of the Drake T4XC I used to have years ago
> (or
> > the FT-101B I had in college, which also had a pretty noticeable
> > plate dip). I'm gonna recheck the dummy load output again today
> (I'm
> > off of work today, and for a change, I'm not in a hurry to get
> things
> > tuned up for a sked). I'm pretty sure that I'm getting 70-90W
> output.
> >
> > 73,
> > Ellen - AF9J

> >
> > --- In TS-520_820_530_830@yahoogroups.com, Bill Richarz
> > <billn4dh@> wrote:
> > >
> > > Have you tried using a dummy load to get a
> > > dip and and then adjust in RF meter position
> > > for maximum smoke or appox. 100 watts?
> > >
> > > 73 de Bill, N4DH
> > >
> > > --- Ellen R <ellenjoanne2003@> wrote:
> > >
> > > > I'm happy with my 6146Ws too. I guess I'm just
> > > > wondering why output
> > > > power seems kind of low, and why I can't get a
> > > > pronounced plate
> > > > current dip, when I tune.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com,
> > > > <crousseau@> wrote:
> > > > >
> > > > > Yes we do still have 6146B's available singly or
> > > > in matched pairs.
> > > > You are correct in that they are getting very scarce
> > > > and pricey.
> > > > While we have a good supply of "W's", the "B's" are
> > > > in very short
> > > > supply. Not trying to drum up sales with scare
> > > > tactics here, it's
> > > > just the reality of the situation. BTW, I use the
> > > > 6146W's in my
> > > > 520SE and I'm perfectly happy with them.
> > > > > >
> > > > > > From: "Ellen R" <ellenjoanne2003@>
> > > > > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > [Non-text portions of this message have been
> > > > removed]
> > > > > >
> > > > >
> > > > >
> > > > >
> > > >

> > > >
> > > >
> > > >
> > >
> > >
> > > _____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection around
> > > http://mail.yahoo.com
> > >
> >
>

7851. Re: low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 19:24:18 UTC
From: pchapman9202003
Topic: 7394 Message: 7851

Ellen:

I am not sure if this reply will mean anything as my memory of the conversation is so vague. Several years ago I purchased a 949E tuner, which is a MFJ product, and prior to the warranty expiration, I called with several questions, most of which I do not remember. I know we talked about the hand inductance problem they have and a few other things. I also remember that I had a very honest guy on the other end. I think the main thrust of the conversation was about a G5RV and 17 meters, and how I should do an oatmeal box coax coil on the shack side to get better results.

Somehow the coversation shifted to the dummy load on the tuner and the tech, if I remember correctly, told me that it works OK, and gets the job done for off the air function but not to put 100% faith in it for power readouts. For more accurate reads, I should use the oil can variety or other dedicated dummy load. He mentioned something about how the "real antenna" comes into play with the dummy load feature, which could cause readings to be somewhat distorted.

Although this is a very vague commentary, I did appreciate the honesty of the guy on the other end of the phone. Budget gear, budget results. I'm sure that someone could chime in with a more intelligent deduction. Maybe this is related to the readings that you had. Maybe not, just 2 cents from this end.

Anyway, five years later, still using the same 949e tuner and the same G5RV. I am putting up a dedicated 17m dipole for the Icom 718. (Had ham radio here three years before the house was finished. The house was a weekend project. What is more important, anyway?)

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Gordon,
>
> Thanks for the info. On further examination, I may not have a
> problem. Rob, WB7AVF (who belongs to this group, and the SKCC group
> that Gordon and I also belng to), and I just finished up a QSO a few
> minutes ago (It was rough going on 40m CW, and almost as rough going
> on 20m CW, after we QSYed - lots of QSB). After we were done, I
> checked output power into my dummy load. Well, it loks like my MFJ
> 300W aircolled dummy load isn't completely non-reactive. SWR is

> about 1.2 to 1.3 to 1. So , I used the basic output power formula
we
> all had to know to pass the tests (output power = forward power +
> reflected power). Guess what, the rig was running about 95-100W
out
> (The meter on the T-match isn't the greatest - it's just a cross-
> needle power meter, and they're not known for being the world's
most
> accurate meters). I will check the plate voltages again (I think
> they were running about 900V, when I checked them with the old, bad
> tubes), but it's looking like my "problem" is a non-issue.
>
> 73,
> Ellen - AF9J
>
> P.S. - so you're going to get rid of all of your hybrid Kenwoods?
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Ellen,
> > My plate voltage at idle is Almost 900 Volts on my TS-820S.
Hope
> > that helps you.
> > I have been busy playing with a NEW toy.
> > A friend shipped me (Unannounced) a very Nice TS-850S. When I
> asked
> > him what it was here on my doorstep for, He replied.. " Happy
> Birthday
> > ,It's Yours".
> >
> > Wow, I'm like a kid in a candy store with all of these rigs here
> now.
> > This 850 sure is Nice! I need to get back to work on my 820 and
> fix
> > the last 2 known problems. The side tone Oscillator and the Pre
Amp
> > circuit. Then I will probably sell it and my "MINT" TS-830S
> > 73,
> > Gordon
> >
> > !--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi George,
> > >
> > > I've checked the plate idle current, it's at 60mA. But, maybe
I
> > > should check the plate voltage, I only gave it a cursory check
a
> few

> > > weeks ago. Maybe it is low. It might have been only 780V or
so,
> with
> > > the bad, old tubes in. Hmmm, maybe I should recheck it.
Thanks
> for
> > > the suggestion.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, george dumond
<dums2@>
> > > wrote:
> > > >
> > > > Hi Ellen,
> > > > I got to thinking about your output being not quite
> > > > where it should be,have u checked ur plate voltage?
> > > > Perhaps your voltage doubler is not quite up to par.
> > > > also do u have 60 ma of plate current. You have
> > > > probably already checked all this.Any way just thought
> > > > i would mention it.
> > > > George K0GWD
> > > >
> > > > _____
> > > > Do You Yahoo!?
> > > > Tired of spam? Yahoo! Mail has the best spam protection
around
> > > > http://mail.yahoo.com
> > > >
> > >
> >
>

7852. Re: 11 meter Fixed Channel Crystals?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 19:28:38 UTC
From: pchapman9202003
Topic: 7569 Message: 7852

My bad...of course

--- In TS-520_820_530_830@yahoogroups.com, Allan <a1mc@...> wrote:
>
> Question, 2.4 meg do you mean 2.4 GHz.
>
> pchapman9202003 <p_chap@...> wrote: Good observation. By the way
the latest wireless mouses for your PC
> are "CB" mice due, for one reason, to the problems with wireless
home
> networks, 2.4 meg phones, and other toys causing computers to lose
> the network. I had to change all of my phones out for 5.8 to get
rid
> of the problem, as well as the old 2.4 mouse for a CB Mouse.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ravenswood"
> <evokefrank@> wrote:
> >
> > Thanks for that Walt. Meanwhile, I've looked up some details
about
> CB
> > radio usage. I have a friend (don't we all) who exceeds the legal
> > limits so I dug around to give him some tips (and warnings!)
> >
> > Some interesting points I've found about CB radio usage*:
> >
> > "You must use an FCC certified transmitter. No modifications are
> > allowed to your equipment. Equipment output power is limited to 4
> > watts for AM transmitters and 12 watts PEP (peak envelope power)
for
> > single sideband (SSB) transmitters.
> >
> > "There are no restrictions on size or type of antennas, except the
> > antenna must not be more than 20 feet above the highest point of
the
> > structure it is mounted to and may not be more than 60 feet above
> the
> > ground.
> >
> > "It should be noted that under Part 95, Subpart D of the FCC
rules
> it
> > is illegal to engage in, or attempt to engage in communications
with
> > any station more than 250 kilometers (155.3 miles) from your

> location.
> >
> > "There is a gap between Channel 22 and Channel 23 (which was later
> > filled by Channels 24 and 25) for historical reasons. Before CB
was
> in
> > existence, there was an Amateur 11-meter band from 26.96 to 27.23
> MHz,
> > and a frequency for radio-controlled devices at 27.255 MHz. The
> > 11-meter band became CB Channels 1 to 22, and the radio control
> > frequency was shared with Channel 23."
> >
> > SOURCE: http://en.wikipedia.org/wiki/Citizens'_band_radio
> >
> > * The Citizens' Band radio services are described in part 95 of
the
> > Federal Communications Commission.
> >
> > Makes one really appreciate the advantages of getting a ham radio
> license!
> >
> > f
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> > wrote:
> > >
> > > CB rigs must be type approved so Amateur equipment is not legal
on
> > CB even
> > > if it meets the power requirements.
> > > Vy 73, Walt N9WB
> >
>
>
>
>
>
>
> SPONSORED LINKS
> Ham radio Craft hobby Hobby and craft supply
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>
> Visit your group "TS-520_820_530_830" on the web.
>
> To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com

>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
> ---------------------------------
>
>
>
>
>
> Signed: Allan kb5doh
>
> "Do On To Others as You would Have them Do On To You"
> (Join The Hobby of Amateur Radio and Have Fun and Meet People
Around The World)
> Link http://groups.yahoo.com/group/Siltronix1011Bunch/
> Link http://pages.prodigy.net/a1mc
> Link www.marykay.com/rebekahs
>
>
>
>
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

7853. Re: Update on my Old TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 20:57:31 UTC
From: pchapman9202003
Topic: 7695 Message: 7853

Walt or some of the other great minds here can give you a better answer, but the speech processor only likes certain mics without a mod to the processor itself, which is available on a search. Can't give you a link, as I just rebuilt the PC, with overclocking, rocket launchers for the video card and everything else that trashes the warranties.

(But it works great....3.2 Pentium running at 4.1 GHZ and 300 MHZ video card now running at over 500 MHZ for over a month with no probs...Keeping it cool ....that is a book in itself...Still working on getting the sound level of the 747 down to a DC-9 level.)

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ok, Fixed the Sidetone Oscillator Today. Turned out R-39 (470k) on
> the FIX - VOX boardwas open therefore Not giving any Voltage to the
> base of Q-12. Now the Side Tone works Great.
> I am still trouble shooting the Speech Processor. I have VERY low
> output when I switch the Compression on. I checked all the
resistors
> feeding Q-30 on the IF board and they all checked good. I replaced
> Q-30 just to be sure, but NO luck. I also checked VR-7 and it checks
> good. Any Suggestions for the Speech processor fix??
>
> Thanks to all for all the help you have given me on this Project.
> It's ALMOST done now.
> Everything Else seems to work Great on this Old rig !
> Just worked the Cayman Islands on 15 meters. Ok, Need to go spend
> some time with the XYL.
> 73,
> Gordon
>

7854. Re: [TS-520_820_530_830] Re: good news from my little collection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 21:50:14 UTC
From: Art
Topic: 7843 Message: 7854

Kay, WOW what a great collection.

73
Art
WB4MNK

Gordon wrote:
> Very Nice Pictures Kay,
> You sure have a collection there.
> I'm jealous of your Kenwood setups !
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, Kay Gro? <kaygross@...> wrote:
>
>> Hello to all,
>>
>> after a while of silence from my side,
>> I had the chance to get a good looking TS820
>> and other accessories for a line.
>> I do also now have a second R-820 in
>> good condition with a lot of optional filters.
>> In works all good ,only a switch in the TS820
>> needs some deoxit.If you want to have a look
>> at them , here is the address: www.pbase.com/dl5oaq
>>
>> 73 Kay DL5OAQ
>>
>>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>
>
>
>

7855. Re: TS-530S Sudden Low Power - Update (HV Caps)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 23:02:26 UTC
From: james27613
Topic: 7818 Message: 7855

hi steve,

the photo section of this group has room,
can you place the photo there ?

73 james

7856. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-02 23:12:28 UTC
From: digs4ruff
Topic: 6191 Message: 7856

Gordon
My 820s won't go over 100w on 20M as measured on an external meter
with 1:1 SWR.
With switches set at CW, SEND, meter on HV, HV is 760V.
WIth switches set at CW, SEND, meter on RF top scale reading is 275.
With switches set at TUNE, SEND, ALC there is no fading of the ALC
over 10 seconds.
Does this sound normal or is some attention required somewhere.
thanks for all the help.
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> My 820 has a very pronounced dip when Tuning. It also is putting
out
> right at 120 watts on 20 meters.
>
> Gordon
>

7857. Re: good news from my little collection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 00:20:14 UTC
From: Ellen R
Topic: 7843 Message: 7857

Hi Kay,

That is a nice looking TS-820S. It looks as good as my TS-820 (the first in this series of transceivers - the one without the digital display [it was only available as an option], and was made in 1976-1977). They are good rigs.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Kay Groß <kaygross@...> wrote:
>
> Hello to all,
>
> after a while of silence from my side,
> I had the chance to get a good looking TS820
> and other accessories for a line.
> I do also now have a second R-820 in
> good condition with a lot of optional filters.
> In works all good ,only a switch in the TS820
> needs some deoxit.If you want to have a look
> at them , here is the address: www.pbase.com/dl5oaq
>
> 73 Kay DL5OAQ
>

7858. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 01:00:23 UTC
From: Ellen R
Topic: 7839 Message: 7858

Hi Barry,

I have a TS-820 (the first year production version of this rig, which came stock, without the digital display). Gordon is right about using the ALC meter function to set up mic gain. Just make sure that mic gain is set up so that, on voice peaks, the meter reading stays in the ALC marked range. Going beyond this will only generate spurs, splatter, and distortion, with vey little, if any increase in ouput power. I always set the carrier level for CW to be in the AlC range too, for the same reasons I just mentioned. Max ALC pretty much translates to max output power.

As for the processor, yes you can use the Comp meter function. It will show you how much compression you are using, and that's about it. Personally, what I do is this:

1. After getting the basic Mic gain settings down, switch your Comp Level (processor) on, at about the halfway point (it's a good starting point with the 820; too much processor on this rig makes the audio nasty).

2. Put the meter in the ALC function, and adjust the mic gain, to bring the voice peaks back down into the ALC range. Now check your audio either with a friend on the air, and/or use the 820's built-in monitor, and a set of headphones (to listen to your audio).

3. How does your audio sound?
A. Is it kind of muddy or muffled? Then your Compression (Comp Level control) is set too high. Turn it down, and turn up your mic gain to bring the ALC meter reading back to the upper end of the ALC range.

B. Does it sound a little wimpy? The turn up your compression, and once again, turn down your mic gain, to bring the voice peaks back into the ALC range.

4. Repeat Step 3 until you are satified with the results.

Speach Processing/compression is a double edged sword. Any time you use compression you raise the average power output (by minimizing the swings in power level that speech causes to a signal). But, the downside is that when you lessen these power swings (which reflect the volume changes that occur while you speak), you lose definition (and in extreme cases intelligibility) to your speech on the air.

I've had good results with speech processing, but it's due in part to the fact that I watch my ALC level like a hawk, and I speak with a

pretty even voice, which keeps the voice peaks from being too
radical. I also don't go verbaord with the compression level. Many
hams avoid compression & processing like the plague. It is not
necessary to use speech processing to get good results on the air,
with your SSB signal. Oftentimes, just using a mic, or EQ with good
audio characteristics can make all of the difference in the world.
Good luck.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> Still trying to figure out how to adjust this rig properly and have
> a couple of questions where the manual is a little short on
> explanation.
>
> "MIC GAIN KNOB
> This knob is used for adjustment of the gain of MIC amplifier
during
> SSB operation. Adjust so that the meter pointer does not deflect
> beyond the ALC zone."
>
> I assume this means tune the rig first and have the mode switch in
> USB or LSB and speak normally into the mic. The needle should stay
> within the ALC zone but what position is the meter switch in? With
> MIC GAIN fully clockwise and meter in RF position I barely see half
> deflection on ALC scale. With meter in ALC position I see full
scale
> deflection.
>
> "COMP LEVEL
> Adjust the state of compression by turning the knob while observing
> the COMP meter."
>
> Can this be translated to layman terms so that I might understand
> what needle reading I am aiming for on which scale? In USB & Meter
> set to COMP and COMP LEVEL max CW when I speak I see deflection
> about 2/3 of ALC scale. What should I be setting this to as my goal.
>
> Tnx & 73s
> Barry
> VA7GEM
>

7859. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 01:02:44 UTC
From: Ellen R
Topic: 6191 Message: 7859

Yeah, my Drake T4XC I had in the late 80s, and early 90s, had the
same characteristic - a very deep dip.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003"
<p_chap@...> wrote:
>
> I know this is an old post, but comment anyway. I had a TR3 for
many
> years and the dip on the 6JB6 finals was extrememly pronounced,
> narrow, and more obvious than on my 820s. Do not know if that was a
> characteristic of Drake or just the sweep finals that it used.
Bought
> it new, but is in mothballs with blown caps from living in improper
> storage ina damp environment. The copper chassis did not help much
> either. Going to be selling it a a parts rig soon. My 718 Icom has
> put the 820s into backup rig status as it is so easy for an old guy
> to operate, HI!
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > Yes I do. This is actually my 5th tube or hybrid rig I've owned
in
> > my 28 years as a ham. I've always tuned up into a dummy load
> first.
> > The strange thing is that I don't get much of a plate current
dip.
> > But this may be normal. My memory may be failing me on this. But
I
> > think even when I used the TS-830S at W9YT (the Univ. of WI ham
> > club's station) in '86 & 87, there wasn't much Plate Currnt dip
on
> > it. I'm just not 100% sure on this recollection.
> >
> > It's possible that I may be used to seeing the major plate
current
> > dip I used to get out of the Drake T4XC I used to have years ago
> (or
> > the FT-101B I had in college, which also had a pretty noticeable
> > plate dip). I'm gonna recheck the dummy load output again today
> (I'm

> > off of work today, and for a change, I'm not in a hurry to get
> things
> > tuned up for a sked). I'm pretty sure that I'm getting 70-90W
> output.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Bill Richarz
> > <billn4dh@> wrote:
> > >
> > > Have you tried using a dummy load to get a
> > > dip and and then adjust in RF meter position
> > > for maximum smoke or appox. 100 watts?
> > >
> > > 73 de Bill, N4DH
> > >
> > > --- Ellen R <ellenjoanne2003@> wrote:
> > >
> > > > I'm happy with my 6146Ws too. I guess I'm just
> > > > wondering why output
> > > > power seems kind of low, and why I can't get a
> > > > pronounced plate
> > > > current dip, when I tune.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com,
> > > > <crousseau@> wrote:
> > > > >
> > > > > Yes we do still have 6146B's available singly or
> > > > in matched pairs.
> > > > You are correct in that they are getting very scarce
> > > > and pricey.
> > > > While we have a good supply of "W's", the "B's" are
> > > > in very short
> > > > supply. Not trying to drum up sales with scare
> > > > tactics here, it's
> > > > just the reality of the situation. BTW, I use the
> > > > 6146W's in my
> > > > 520SE and I'm perfectly happy with them.
> > > > > >
> > > > > > From: "Ellen R" <ellenjoanne2003@>
> > > > > > Date: 2006/05/18 Thu PM 12:59:06 CDT
> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > > Subject: [TS-520_820_530_830] Re: 6146B Tubes
> > > > > >
> > > > > >
> > > > > >

> > > > >
> > > > > [Non-text portions of this message have been
> > > > removed]
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > _____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam protection around
> > > http://mail.yahoo.com
> > >
> >
>

7860. Re: low output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 01:05:06 UTC
From: Ellen R
Topic: 7394 Message: 7860

That's probably true. I began to feel about 2 weeks ago, that my dear old air cooled MFJ dummy load wasn't exactly 1 to 1, and might be a little reactive.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "pchapman9202003" <p_chap@...> wrote:
>
> Ellen:
>
> I am not sure if this reply will mean anything as my memory of the
> conversation is so vague. Several years ago I purchased a 949E tuner,
> which is a MFJ product, and prior to the warranty expiration, I
> called with several questions, most of which I do not remember. I
> know we talked about the hand inductance problem they have and a few
> other things. I also remember that I had a very honest guy on the
> other end. I think the main thrust of the conversation was about a
> G5RV and 17 meters, and how I should do an oatmeal box coax coil on
> the shack side to get better results.
>
> Somehow the coversation shifted to the dummy load on the tuner and
> the tech, if I remember correctly, told me that it works OK, and gets
> the job done for off the air function but not to put 100% faith in it
> for power readouts. For more accurate reads, I should use the oil can
> variety or other dedicated dummy load. He mentioned something about
> how the "real antenna" comes into play with the dummy load feature,
> which could cause readings to be somewhat distorted.
>
> Although this is a very vague commentary, I did appreciate the
> honesty of the guy on the other end of the phone. Budget gear, budget
> results. I'm sure that someone could chime in with a more intelligent
> deduction. Maybe this is related to the readings that you had. Maybe
> not, just 2 cents from this end.
>
> Anyway, five years later, still using the same 949e tuner and the
> same G5RV. I am putting up a dedicated 17m dipole for the Icom 718.

> (Had ham radio here three years before the house was finished. The
> house was a weekend project. What is more important, anyway?)
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Gordon,
> >
> > Thanks for the info. On further examination, I may not have a
> > problem. Rob, WB7AVF (who belongs to this group, and the SKCC
> group
> > that Gordon and I also belng to), and I just finished up a QSO a
> few
> > minutes ago (It was rough going on 40m CW, and almost as rough
> going
> > on 20m CW, after we QSYed - lots of QSB). After we were done, I
> > checked output power into my dummy load. Well, it loks like my
MFJ
> > 300W aircolled dummy load isn't completely non-reactive. SWR is
> > about 1.2 to 1.3 to 1. So , I used the basic output power
formula
> we
> > all had to know to pass the tests (output power = forward power +
> > reflected power). Guess what, the rig was running about 95-100W
> out
> > (The meter on the T-match isn't the greatest - it's just a cross-
> > needle power meter, and they're not known for being the world's
> most
> > accurate meters). I will check the plate voltages again (I think
> > they were running about 900V, when I checked them with the old,
bad
> > tubes), but it's looking like my "problem" is a non-issue.
> >
> > 73,
> > Ellen - AF9J
> >
> > P.S. - so you're going to get rid of all of your hybrid Kenwoods?
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Ellen,
> > > My plate voltage at idle is Almost 900 Volts on my TS-820S.
> Hope
> > > that helps you.
> > > I have been busy playing with a NEW toy.
> > > A friend shipped me (Unannounced) a very Nice TS-850S. When
I
> > asked

> > > him what it was here on my doorstep for, He replied.. " Happy
> > Birthday
> > > ,It's Yours".
> > >
> > > Wow, I'm like a kid in a candy store with all of these rigs
here
> > now.
> > > This 850 sure is Nice! I need to get back to work on my 820
and
> > fix
> > > the last 2 known problems. The side tone Oscillator and the
Pre
> Amp
> > > circuit. Then I will probably sell it and my "MINT" TS-830S
> > > 73,
> > > Gordon
> > >
> > > !--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Hi George,
> > > >
> > > > I've checked the plate idle current, it's at 60mA. But,
maybe
> I
> > > > should check the plate voltage, I only gave it a cursory
check
> a
> > few
> > > > weeks ago. Maybe it is low. It might have been only 780V or
> so,
> > with
> > > > the bad, old tubes in. Hmmm, maybe I should recheck it.
> Thanks
> > for
> > > > the suggestion.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, george dumond
> <dums2@>
> > > > wrote:
> > > > >
> > > > > Hi Ellen,
> > > > > I got to thinking about your output being not quite
> > > > > where it should be,have u checked ur plate voltage?
> > > > > Perhaps your voltage doubler is not quite up to par.
> > > > > also do u have 60 ma of plate current. You have
> > > > > probably already checked all this.Any way just thought

> > > > > i would mention it.
> > > > > George K0GWD
> > > > >
> > > > > _____
> > > > > Do You Yahoo!?
> > > > > Tired of spam? Yahoo! Mail has the best spam protection
> around
> > > > > http://mail.yahoo.com
> > > > >
> > > >
> > >
> >
>

7861. Re: good news from my little collection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 01:13:51 UTC
From: Ellen R
Topic: 7843 Message: 7861

By the way Kay, I see you have an FT-221. I have one too, that I won on e-bay as a non-runner. It's working now. Since I want to get the receiver at least up to the level of my dearly beloved FT-736R I had to sell a few years ago, I e-mailed Mutek, to ask them if they still sell the receiver front end upgrade boards. Chas e-mailed me today, to inform me that they are considering offering the receiver upgrade boards again, and hopefully will have them available soon. The first board they will make available, will be for the FT-221.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Kay Groß <kaygross@...>
wrote:
>
> Hello to all,
>
> after a while of silence from my side,
> I had the chance to get a good looking TS820
> and other accessories for a line.
> I do also now have a second R-820 in
> good condition with a lot of optional filters.
> In works all good ,only a switch in the TS820
> needs some deoxit.If you want to have a look
> at them , here is the address: www.pbase.com/dl5oaq
>
> 73 Kay DL5OAQ
>

7862. TS-820 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 04:23:36 UTC
From: Greg White
Topic: 7862 Message: 7862

I bought a TS-820 on ebay for my first ham rig. It has 160m so I think that makes it an 820S, anyway, it recieves, but I can't get it to transmit. I thought when I bought it if it didn't work I would try to fix it then use it, but with so many other new things to learn, I figured I would rather not have to try to mess around with an old radio so I bought an icom 817. I am going to list the Kenwood on ebay unless anyone here wants it. It cost me about $200, I would like to get my money back. If anyone is interested, email me, I am in WA state.
73
Greg
PS I have a copy of the manual and the sevice manual.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

7863. Re: [TS-520_820_530_830] TS-820 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 05:44:54 UTC
From: Bill Scurlock
Topic: 7862 Message: 7863

Hi Greg. Isn't eBay a wonderful place. Almost everything I have bought on eBay has had some type of problem(s).

How clean (or dirty, scratched & rusty) is it? Do you have a photo, or can you give me the eBay item number so I can go look at what you saw when you bought it?

Thanks & 73, Bill, K5GCW
----- Original Message -----
From: Greg White
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 02, 2006 11:23 PM
Subject: [TS-520_820_530_830] TS-820 for sale

I bought a TS-820 on ebay for my first ham rig. It has 160m so I think that makes it an 820S, anyway, it recieves, but I can't get it to transmit. I thought when I bought it if it didn't work I would try to fix it then use it, but with so many other new things to learn, I figured I would rather not have to try to mess around with an old radio so I bought an icom 817. I am going to list the Kenwood on ebay unless anyone here wants it. It cost me about $200, I would like to get my money back. If anyone is interested, email me, I am in WA state.
73
Greg
PS I have a copy of the manual and the sevice manual.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7864. Re: [TS-520_820_530_830] TS-820 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 09:44:14 UTC
From: Walt Breining
Topic: 7862 Message: 7864

The TS820S had a digital readout factory installed. It will say 820 S on the front panel.
Walt N9WB
----- Original Message -----
From: Greg White
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 02, 2006 11:23 PM
Subject: [TS-520_820_530_830] TS-820 for sale

I bought a TS-820 on ebay for my first ham rig. It has 160m so I think that makes it an 820S, anyway, it recieves, but I can't get it to transmit. I thought when I bought it if it didn't work I would try to fix it then use it, but with so many other new things to learn, I figured I would rather not have to try to mess around with an old radio so I bought an icom 817. I am going to list the Kenwood on ebay unless anyone here wants it. It cost me about $200, I would like to get my money back. If anyone is interested, email me, I am in WA state.
73
Greg
PS I have a copy of the manual and the sevice manual.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7865. Re: [TS-520_820_530_830] Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 09:38:03 UTC
From: Walt Breining
Topic: 6191 Message: 7865

I'm betting that your line voltage is a bit low when keyed down or your watt meter is reading low .

Walt N9WB
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 02, 2006 6:12 PM
Subject: [TS-520_820_530_830] Re: 6146B Tubes

Gordon
My 820s won't go over 100w on 20M as measured on an external meter
with 1:1 SWR.
With switches set at CW, SEND, meter on HV, HV is 760V.
WIth switches set at CW, SEND, meter on RF top scale reading is 275.
With switches set at TUNE, SEND, ALC there is no fading of the ALC
over 10 seconds.
Does this sound normal or is some attention required somewhere.
thanks for all the help.
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> My 820 has a very pronounced dip when Tuning. It also is putting
out
> right at 120 watts on 20 meters.
>
> Gordon
>

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7866. Re: [TS-520_820_530_830] TS-820 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 13:04:22 UTC
From: Art
Topic: 7862 Message: 7866

Bill, Don't tell me you are interested in another rig with a house and barn full of them HI.

73
Art
WB4MNK
----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, June 03, 2006 1:44 AM
Subject: Re: [TS-520_820_530_830] TS-820 for sale

Hi Greg. Isn't eBay a wonderful place. Almost everything I have bought on eBay has had some type of problem(s).

How clean (or dirty, scratched & rusty) is it? Do you have a photo, or can you give me the eBay item number so I can go look at what you saw when you bought it?

Thanks & 73, Bill, K5GCW
----- Original Message -----
From: Greg White
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 02, 2006 11:23 PM
Subject: [TS-520_820_530_830] TS-820 for sale

I bought a TS-820 on ebay for my first ham rig. It has 160m so I think that makes it an 820S, anyway, it recieves, but I can't get it to transmit. I thought when I bought it if it didn't work I would try to fix it then use it, but with so many other new things to learn, I figured I would rather not have to try to mess around with an old radio so I bought an icom 817. I am going to list the Kenwood on ebay unless anyone here wants it. It cost me about $200, I would like to get my money back. If anyone is interested, email me, I am in WA state.
73
Greg
PS I have a copy of the manual and the sevice manual.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

[Non-text portions of this message have been removed]

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.8.0/353 - Release Date: 5/31/2006

7867. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 13:45:31 UTC
From: digs4ruff
Topic: 7839 Message: 7867

Ellen
TVM
That clears up a lot of questions.
Barry
VA7GEM

7868. Re: 6146B Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 13:54:52 UTC
From: digs4ruff
Topic: 6191 Message: 7868

Walt
TVM
Will check line voltage later today and report back.
Without an external meter (which I can't check accuracy of) one
would have to rely on the 820s meter.
"With switches set at CW, SEND, meter on RF top scale reading is
275."
Which scale should I be reading and what should I expect to see.
TVM
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@...> wrote:
>
> I'm betting that your line voltage is a bit low when keyed down or
your watt meter is reading low .
>
> Walt N9WB
> ----- Original Message -----
> From: digs4ruff
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, June 02, 2006 6:12 PM
> Subject: [TS-520_820_530_830] Re: 6146B Tubes
>
>
> Gordon
> My 820s won't go over 100w on 20M as measured on an external
meter
> with 1:1 SWR.
> With switches set at CW, SEND, meter on HV, HV is 760V.
> WIth switches set at CW, SEND, meter on RF top scale reading is
275.
> With switches set at TUNE, SEND, ALC there is no fading of the
ALC
> over 10 seconds.
> Does this sound normal or is some attention required somewhere.
> thanks for all the help.
> Barry
> VA7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> >
> > My 820 has a very pronounced dip when Tuning. It also is

putting
> out
> > right at 120 watts on 20 meters.
> >
> > Gordon
> >
>
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> ---

> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of Service.
>
>
> ---

>
>
>
> [Non-text portions of this message have been removed]
>

7869. Mystery Box

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 13:59:23 UTC
From: digs4ruff
Topic: 7869 Message: 7869

Hi all
I have posted 4 pics under VA7GEM of a mystery box I am hoping someone can help identify.
External connections are AC, lamp, on-off switch, fuse, RF in, & RF out.
TIA
Barry
VA7GEM

7870. Multiple RL1 relays in the 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 14:48:58 UTC
From: belbert2002
Topic: 7870 Message: 7870

To follow up on my previous postings on the problem keying a linear, I finally figured out that there are two RL1s. The one that keys the linear through the Remote DIN on the back is plugged into the chasis and points downward. There is a metal shield over it which must be unscrewed, then the relay is easy to pull out. The plastic cover can be unpotted with a razor blade (don't cut yourself!). I cleaned the contacts with the recommended business card soaked in DeOxit, and discovered that they were oxidized and the source of the high resistance.

The other RL1 is on the AF board and is the one I damaged when removing the plastic cover. It's working fine. I ordered a replacement from www.kenwoodparts.com, and it arrived (from Japan) in about one week, which is great service. I now have an extra relay if anyone needs one.

73, Bruce K6ZB

7871. Re: TS-820 for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 16:13:44 UTC
From: Ellen R
Topic: 7862 Message: 7871

Hi Greg,

Info to add to your e-bay add - the S in TS-820S, does not mean that it has 160m. I have a TS-820. It also has 160m on it. Unlike the 520 series, all the S means in the 820 series, is that it was made in 1977 or later (the plain TS-820 was only made in 1976-77), and has a digital display as standard (the digital display was only available as an add-on option for the TS-820). All TS-820s made in 1977 or later, are TS-820S models.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Greg White <ke7hux@...> wrote:
>
> I bought a TS-820 on ebay for my first ham rig. It has 160m so I think that makes it an 820S, anyway, it recieves, but I can't get it to transmit. I thought when I bought it if it didn't work I would try to fix it then use it, but with so many other new things to learn, I figured I would rather not have to try to mess around with an old radio so I bought an icom 817. I am going to list the Kenwood on ebay unless anyone here wants it. It cost me about $200, I would like to get my money back. If anyone is interested, email me, I am in WA state.
> 73
> Greg
> PS I have a copy of the manual and the sevice manual.
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

7872. Re: Mystery Box

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 16:20:26 UTC
From: Ellen R
Topic: 7869 Message: 7872

Hi again Barry,

Does the circuit board have any crystals on it? The only thing I can think it is (and this is probably a long shot), is possibly a transverter, since it has RFin, and RFout connectors.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Hi all
> I have posted 4 pics under VA7GEM of a mystery box I am hoping someone
> can help identify.
> External connections are AC, lamp, on-off switch, fuse, RF in, & RF
> out.
> TIA
> Barry
> VA7GEM
>

7873. Re: Mystery Box

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 16:42:50 UTC
From: digs4ruff
Topic: 7869 Message: 7873

Ellen
Unfortunately the box has not arrived yet, just the photos.
A transverter does sound feasible but there does not appear to be
any components capable of handling any amount of power so I was
thinking maybe a preamp for SWL or maybe QRP application.
thanks
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi again Barry,
>
> Does the circuit board have any crystals on it? The only thing I
can
> think it is (and this is probably a long shot), is possibly a
> transverter, since it has RFin, and RFout connectors.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > Hi all
> > I have posted 4 pics under VA7GEM of a mystery box I am hoping
> someone
> > can help identify.
> > External connections are AC, lamp, on-off switch, fuse, RF in, &
RF
> > out.
> > TIA
> > Barry
> > VA7GEM
> >
>

7874. DD1K DIGITAL FREQUENCY DISPLAY TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 15:47:34 UTC
From: N3DOK
Topic: 7874 Message: 7874

Hi, FYI Here is one for sale used. As of 6/3/06.
R&L Electronics.
http://www.randl.com/cart/usedeq.shtml
DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00

Bob N3DOK

[Non-text portions of this message have been removed]

7875. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 17:22:41 UTC
From: Ellen R
Topic: 7839 Message: 7875

Hi Gordon,

I'm in Wisconsin, so 20 or 15 may be open between you and I, at one time or another. You're call about whether or not you want to try it. Like I said, you don't necessarily have to use the processor.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Gordon
> TVM Now all I need is an on-air confirmation but the bands are
> seldom open in Vancouver. Can anyone help with the setting of the
> processor.
> thanks
> Barry
> VA7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Barry, When you adjust the Mic control, be is SSB position (
> either
> > USB or LSB) and put the Meter switch in ALC position. Then adjust
> the
> > Mic control while speaking Normally into the Mic to stay within
> the
> > ALC range. This is all done AFTER you have done the Tune and The
> CW
> > position Loading.
> >
> > 73,
> > Gordon
> > N6WK
> >
> > >
> > > "COMP LEVEL
> > > Adjust the state of compression by turning the knob while
> observing
> > > the COMP meter."
> > >
> > > Can this be translated to layman terms so that I might
> understand
> > > what needle reading I am aiming for on which scale? In USB &
> Meter

> > > set to COMP and COMP LEVEL max CW when I speak I see deflection
> > > about 2/3 of ALC scale. What should I be setting this to as my
> goal.
> > >
> > > Tnx & 73s
> > > Barry
> > > VA7GEM
> > >
> >
>

7876. Re: Mystery Box

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 17:25:36 UTC
From: Ellen R
Topic: 7869 Message: 7876

Good point.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
>
> Ellen
> Unfortunately the box has not arrived yet, just the photos.
> A transverter does sound feasible but there does not appear to be
> any components capable of handling any amount of power so I was
> thinking maybe a preamp for SWL or maybe QRP application.
> thanks
> Barry
> VA7GEM
>
> --- In TS-520_820_530_830@...m, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi again Barry,
> >
> > Does the circuit board have any crystals on it? The only thing I
> can
> > think it is (and this is probably a long shot), is possibly a
> > transverter, since it has RFin, and RFout connectors.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > <digs4ruff@> wrote:
> > >
> > > Hi all
> > > I have posted 4 pics under VA7GEM of a mystery box I am hoping
> > someone
> > > can help identify.
> > > External connections are AC, lamp, on-off switch, fuse, RF in,
&
> RF
> > > out.
> > > TIA
> > > Barry
> > > VA7GEM
> > >

> >
>

7877. Still looking for a YG-455-C 500 Hz CW filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 17:39:39 UTC
From: belbert2002
Topic: 7877 Message: 7877

If anyone is interested in selling a YG-500-C 500 Hz CW filter for the 830S, I'm very interested in buying. I'm offering $80 plus shipping. I tried out a C-1, which can be soldered in but as has been pointed out has a different center frequency. This can function on its own but does not work correctly in conjunction with the YK-88-C.

Thanks and 73, Bruce, K6ZB

7878. Still looking for a YG-455-C 500 Hz CW filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 17:39:42 UTC
From: belbert2002
Topic: 7877 Message: 7878

If anyone is interested in selling a YG-500-C 500 Hz CW filter for the 830S, I'm very interested in buying. I'm offering $80 plus shipping. I tried out a C-1, which can be soldered in but as has been pointed out has a different center frequency. This can function on its own but does not work correctly in conjunction with the YK-88-C.

Thanks and 73, Bruce, K6ZB

7879. DD1K ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 18:50:03 UTC
From: Daniel
Topic: 7874 Message: 7879

Hi Bob

DD1K?? How does this look like?? I don't find anything in the internet!

Daniel, HB9DDS

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, FYI Here is one for sale used. As of 6/3/06.
> R&L Electronics.
> http://www.randl.com/cart/usedeq.shtml
> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
>
> Bob N3DOK

7880. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 19:16:54 UTC
From: Gordon
Topic: 7839 Message: 7880

Ellen,
I think you meant to post this to Barry, not Gordon. ;-)

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Gordon,
>
> I'm in Wisconsin, so 20 or 15 may be open between you and I, at one
> time or another. You're call about whether or not you want to try
> it. Like I said, you don't necessarily have to use the processor.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > Gordon
> > TVM Now all I need is an on-air confirmation but the bands are
> > seldom open in Vancouver. Can anyone help with the setting of the
> > processor.
> > thanks
> > Barry
> > VA7GEM
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Barry, When you adjust the Mic control, be is SSB position (
> > either
> > > > USB or LSB) and put the Meter switch in ALC position. Then adjust
> > the
> > > > Mic control while speaking Normally into the Mic to stay within
> > the
> > > > ALC range. This is all done AFTER you have done the Tune and The
> > CW
> > > > position Loading.
> > > >
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >

> > > >
> > > > "COMP LEVEL
> > > > Adjust the state of compression by turning the knob while
> > observing
> > > > > the COMP meter."
> > > > >
> > > > > Can this be translated to layman terms so that I might
> > understand
> > > > > what needle reading I am aiming for on which scale? In USB &
> > Meter
> > > > > set to COMP and COMP LEVEL max CW when I speak I see deflection
> > > > > about 2/3 of ALC scale. What should I be setting this to as my
> > goal.
> > > > >
> > > > > Tnx & 73s
> > > > > Barry
> > > > > VA7GEM
> > > > >
> > > >
> > >
>

7881. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 19:30:51 UTC
From: digs4ruff
Topic: 7839 Message: 7881

Ellen
I thought the same but I have been wrong so often, and my mother taught me it is better to keep my mouth shut and be thought a fool than to open it and be known as one.
I have had the rig operational now for about 4 months and as yet have never heard a station from east of utah. Our main conduit on 20M seems to be Alaska to Cal/Texas. Ocassionaly I will talk to Eur/Japan/Hawaii/Cook Isl/New Zealand. I keep listening for something from the mid-west or the east part of Canada or USA. I have only had one contact on 15M so far and that was just into Wash. Who knows what may happen in the future.
Barry
VA7GEM
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ellen,
> I think you meant to post this to Barry, not Gordon. ;-)
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Gordon,
> >
> > I'm in Wisconsin, so 20 or 15 may be open between you and I, at
one
> > time or another. You're call about whether or not you want to
try
> > it. Like I said, you don't necessarily have to use the
processor.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > <digs4ruff@> wrote:
> > >
> > > Gordon
> > > TVM Now all I need is an on-air confirmation but the bands are
> > > seldom open in Vancouver. Can anyone help with the setting of
the
> > > processor.
> > > thanks

> > > Barry
> > > VA7GEM
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > >
> > > > Barry, When you adjust the Mic control, be is SSB position
(
> > > either
> > > > USB or LSB) and put the Meter switch in ALC position. Then
adjust
> > > the
> > > > Mic control while speaking Normally into the Mic to stay
within
> > the
> > > > ALC range. This is all done AFTER you have done the Tune and
The
> > CW
> > > > position Loading.
> > > >
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >
> > > > >
> > > > > "COMP LEVEL
> > > > > Adjust the state of compression by turning the knob while
> > > observing
> > > > > the COMP meter."
> > > > >
> > > > > Can this be translated to layman terms so that I might
> > > understand
> > > > > what needle reading I am aiming for on which scale? In USB
&
> > > Meter
> > > > > set to COMP and COMP LEVEL max CW when I speak I see
deflection
> > > > > about 2/3 of ALC scale. What should I be setting this to
as my
> > > goal.
> > > > >
> > > > > Tnx & 73s
> > > > > Barry
> > > > > VA7GEM
> > > > >
> > > >
> > >
> >
>

7882. Original TS-820 Brochure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 19:53:59 UTC
From: Gordon
Topic: 7882 Message: 7882

I was going through some papers here today and I came across one of
Kenwoods ORIGINAL brochures for the TS-820 (Not the S)
It's in Pretty darn good shape too.
They refer to the 820 as "the Kenwood TS820 Pacesetter"

It starts off with " The pasesetter Transceiver is Here.......
the fruit of an all out effort by Kenwood's engineering
department....... then it goes on to say The finished product is
here, The Kenwood TS-820 Pacesetter. "
Kind of neat to read through.
I wonder if thing has any value out there?

Gordon

7883. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 20:04:29 UTC
From: Gordon
Topic: 7839 Message: 7883

Barry,
Drop me an email when you are on and I'll listen for you.
n6wk at n6wk.com
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Ellen
> I thought the same but I have been wrong so often, and my mother
> taught me it is better to keep my mouth shut and be thought a fool
> than to open it and be known as one.
> I have had the rig operational now for about 4 months and as yet
> have never heard a station from east of utah. Our main conduit on
> 20M seems to be Alaska to Cal/Texas. Ocassionaly I will talk to
> Eur/Japan/Hawaii/Cook Isl/New Zealand. I keep listening for
> something from the mid-west or the east part of Canada or USA. I
> have only had one contact on 15M so far and that was just into Wash.
> Who knows what may happen in the future.
> Barry
> VA7GEM
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ellen,
> > I think you meant to post this to Barry, not Gordon. ;-)
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Gordon,
> > >
> > > I'm in Wisconsin, so 20 or 15 may be open between you and I, at
> one
> > > time or another. You're call about whether or not you want to
> try
> > > it. Like I said, you don't necessarily have to use the
> processor.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"

> > > <digs4ruff@> wrote:
> > > >
> > > > Gordon
> > > > TVM Now all I need is an on-air confirmation but the bands are
> > > > seldom open in Vancouver. Can anyone help with the setting of
> the
> > > > processor.
> > > > thanks
> > > > Barry
> > > > VA7GEM
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > >
> > > > > Barry, When you adjust the Mic control, be is SSB position
> (
> > > > either
> > > > > USB or LSB) and put the Meter switch in ALC position. Then
> adjust
> > > > the
> > > > > Mic control while speaking Normally into the Mic to stay
> within
> > > the
> > > > > ALC range. This is all done AFTER you have done the Tune and
> The
> > > CW
> > > > > position Loading.
> > > > >
> > > > > 73,
> > > > > Gordon
> > > > > N6WK
> > > > >
> > > > > >
> > > > > > "COMP LEVEL
> > > > > > Adjust the state of compression by turning the knob while
> > > observing
> > > > > > the COMP meter."
> > > > > >
> > > > > > Can this be translated to layman terms so that I might
> > > understand
> > > > > > what needle reading I am aiming for on which scale? In USB
> &
> > > Meter
> > > > > > set to COMP and COMP LEVEL max CW when I speak I see
> deflection
> > > > > > about 2/3 of ALC scale. What should I be setting this to
> as my
> > > goal.
> > > > > >
> > > > > > Tnx & 73s

> > > > > > Barry
> > > > > > VA7GEM
> > > > > > >
> > > > > >
> > > > >
> > >
>

7884. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 20:16:19 UTC
From: digs4ruff
Topic: 7839 Message: 7884

Gordon
We a poor opening right now but try 14.185

Gordon--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...>
wrote:
>
> Barry,
> Drop me an email when you are on and I'll listen for you.
> n6wk at n6wk.com
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > Ellen
> > I thought the same but I have been wrong so often, and my mother
> > taught me it is better to keep my mouth shut and be thought a
fool
> > than to open it and be known as one.
> > I have had the rig operational now for about 4 months and as yet
> > have never heard a station from east of utah. Our main conduit
on
> > 20M seems to be Alaska to Cal/Texas. Ocassionaly I will talk to
> > Eur/Japan/Hawaii/Cook Isl/New Zealand. I keep listening for
> > something from the mid-west or the east part of Canada or USA. I
> > have only had one contact on 15M so far and that was just into
Wash.
> > Who knows what may happen in the future.
> > Barry
> > VA7GEM
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > >
> > > Ellen,
> > > I think you meant to post this to Barry, not Gordon. ;-)
> > >
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Hi Gordon,
> > > >
> > > > I'm in Wisconsin, so 20 or 15 may be open between you and I,

at
> > one
> > > > time or another. You're call about whether or not you want
to
> > try
> > > > it. Like I said, you don't necessarily have to use the
> > processor.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > > <digs4ruff@> wrote:
> > > > >
> > > > > Gordon
> > > > > TVM Now all I need is an on-air confirmation but the bands
are
> > > > > seldom open in Vancouver. Can anyone help with the setting
of
> > the
> > > > > processor.
> > > > > thanks
> > > > > Barry
> > > > > VA7GEM
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > wrote:
> > > > > >
> > > > > > Barry, When you adjust the Mic control, be is SSB
position
> > (
> > > > > either
> > > > > > USB or LSB) and put the Meter switch in ALC position.
Then
> > adjust
> > > > > the
> > > > > > Mic control while speaking Normally into the Mic to stay
> > within
> > > > the
> > > > > > ALC range. This is all done AFTER you have done the Tune
and
> > The
> > > > CW
> > > > > > position Loading.
> > > > > >
> > > > > > 73,
> > > > > > Gordon
> > > > > > N6WK
> > > > > >

> > > > > > >
> > > > > > > > "COMP LEVEL
> > > > > > > > Adjust the state of compression by turning the knob
while
> > > > > observing
> > > > > > > > the COMP meter."
> > > > > > > >
> > > > > > > > Can this be translated to layman terms so that I might
> > > > > understand
> > > > > > > > what needle reading I am aiming for on which scale? In
USB
> > &
> > > > > Meter
> > > > > > > > set to COMP and COMP LEVEL max CW when I speak I see
> > deflection
> > > > > > > > about 2/3 of ALC scale. What should I be setting this
to
> > as my
> > > > > goal.
> > > > > > > >
> > > > > > > > Tnx & 73s
> > > > > > > > Barry
> > > > > > > > VA7GEM
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >

7885. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 22:57:58 UTC
From: Ellen R
Topic: 7839 Message: 7885

Hi Barry,

Sorry about the goof. OK, if condx get better for a path to the
midwest, let me know, if you still need a test for the processor.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> Ellen
> I thought the same but I have been wrong so often, and my mother
> taught me it is better to keep my mouth shut and be thought a fool
> than to open it and be known as one.
> I have had the rig operational now for about 4 months and as yet
> have never heard a station from east of utah. Our main conduit on
> 20M seems to be Alaska to Cal/Texas. Ocassionaly I will talk to
> Eur/Japan/Hawaii/Cook Isl/New Zealand. I keep listening for
> something from the mid-west or the east part of Canada or USA. I
> have only had one contact on 15M so far and that was just into Wash.
> Who knows what may happen in the future.
> Barry
> VA7GEM
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ellen,
> > I think you meant to post this to Barry, not Gordon. ;-)
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Gordon,
> > >
> > > I'm in Wisconsin, so 20 or 15 may be open between you and I, at
> one
> > > time or another. You're call about whether or not you want to
> try
> > > it. Like I said, you don't necessarily have to use the
> processor.
> > >
> > > 73,
> > > Ellen - AF9J

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > <digs4ruff@> wrote:
> > > >
> > > > Gordon
> > > > TVM Now all I need is an on-air confirmation but the bands
are
> > > > seldom open in Vancouver. Can anyone help with the setting of
> the
> > > > processor.
> > > > thanks
> > > > Barry
> > > > VA7GEM
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > >
> > > > > Barry, When you adjust the Mic control, be is SSB position
> (
> > > > either
> > > > > USB or LSB) and put the Meter switch in ALC position. Then
> adjust
> > > > the
> > > > > Mic control while speaking Normally into the Mic to stay
> within
> > > the
> > > > > ALC range. This is all done AFTER you have done the Tune
and
> The
> > > CW
> > > > > position Loading.
> > > > >
> > > > > 73,
> > > > > Gordon
> > > > > N6WK
> > > > >
> > > > > >
> > > > > > "COMP LEVEL
> > > > > > Adjust the state of compression by turning the knob while
> > > observing
> > > > > > the COMP meter."
> > > > > >
> > > > > > Can this be translated to layman terms so that I might
> > > understand
> > > > > > what needle reading I am aiming for on which scale? In
USB
> &
> > > > Meter
> > > > > > set to COMP and COMP LEVEL max CW when I speak I see
> deflection

> > > > > > about 2/3 of ALC scale. What should I be setting this to
> as my
> > > > > goal.
> > > > > > >
> > > > > > > Tnx & 73s
> > > > > > > Barry
> > > > > > > VA7GEM
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > >
>

7886. Re: Original TS-820 Brochure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 23:00:23 UTC
From: Ellen R
Topic: 7882 Message: 7886

It ight be worth a little money to a Kenwood collector.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I was going through some papers here today and I came across one
of
> Kenwoods ORIGINAL brochures for the TS-820 (Not the S)
> It's in Pretty darn good shape too.
> They refer to the 820 as "the Kenwood TS820 Pacesetter"
>
> It starts off with " The pasesetter Transceiver is Here.......
> the fruit of an all out effort by Kenwood's engineering
> department....... then it goes on to say The finished product is
> here, The Kenwood TS-820 Pacesetter. "
> Kind of neat to read through.
> I wonder if thing has any value out there?
>
> Gordon
>

7887. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 22:54:39 UTC
From: Ellen R
Topic: 7839 Message: 7887

Ooops! Sorry. OK, lets try again.

Barry, I live in Wisconsin. If you're willing to chance it, we might be able to make it on 15 or 20m, if you want to do on-the-air setup of your TS-820S processor. I'll leave it up to you. Lioke I said, you don't have to necessarily use the processor with the radio.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ellen,
> I think you meant to post this to Barry, not Gordon. ;-)
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Gordon,
> >
> > I'm in Wisconsin, so 20 or 15 may be open between you and I, at
one
> > time or another. You're call about whether or not you want to
try
> > it. Like I said, you don't necessarily have to use the processor.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > <digs4ruff@> wrote:
> > >
> > > Gordon
> > > TVM Now all I need is an on-air confirmation but the bands are
> > > seldom open in Vancouver. Can anyone help with the setting of
the
> > > processor.
> > > thanks
> > > Barry
> > > VA7GEM
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > >

> > > > Barry, When you adjust the Mic control, be is SSB position (
> > > either
> > > > USB or LSB) and put the Meter switch in ALC position. Then
adjust
> > > the
> > > > Mic control while speaking Normally into the Mic to stay
within
> > the
> > > > ALC range. This is all done AFTER you have done the Tune and
The
> > CW
> > > > position Loading.
> > > >
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >
> > > > > >
> > > > > "COMP LEVEL
> > > > > Adjust the state of compression by turning the knob while
> > > observing
> > > > > the COMP meter."
> > > > > >
> > > > > Can this be translated to layman terms so that I might
> > > understand
> > > > > what needle reading I am aiming for on which scale? In USB
&
> > > Meter
> > > > > set to COMP and COMP LEVEL max CW when I speak I see
deflection
> > > > > about 2/3 of ALC scale. What should I be setting this to as
my
> > > goal.
> > > > > >
> > > > > Tnx & 73s
> > > > > Barry
> > > > > VA7GEM
> > > > > >
> > > > >
> > > >
> > >
> >

7888. Re: Original TS-820 Brochure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 23:06:19 UTC
From: digs4ruff
Topic: 7882 Message: 7888

Gordon
The brochure for the 820 should be worth $
If it was for 820s it would be worth $s

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I was going through some papers here today and I came across one of
> Kenwoods ORIGINAL brochures for the TS-820 (Not the S)
> It's in Pretty darn good shape too.
> They refer to the 820 as "the Kenwood TS820 Pacesetter"
>
> It starts off with " The pasesetter Transceiver is Here.......
> the fruit of an all out effort by Kenwood's engineering
> department....... then it goes on to say The finished product is
> here, The Kenwood TS-820 Pacesetter. "
> Kind of neat to read through.
> I wonder if thing has any value out there?
>
> Gordon
>

7889. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 23:08:51 UTC
From: digs4ruff
Topic: 7839 Message: 7889

Ellen
Tnx. Will listen for any calls from your area but nothing so far.
Everyone says the bands will improve and if the newbies are having
fun now it just gets better.

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Ooops! Sorry. OK, lets try again.
>
> Barry, I live in Wisconsin. If you're willing to chance it, we
might
> be able to make it on 15 or 20m, if you want to do on-the-air
setup
> of your TS-820S processor. I'll leave it up to you. Lioke I
said,
> you don't have to necessarily use the processor with the radio.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ellen,
> > I think you meant to post this to Barry, not Gordon. ;-)
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Gordon,
> > >
> > > I'm in Wisconsin, so 20 or 15 may be open between you and I,
at
> one
> > > time or another. You're call about whether or not you want to
> try
> > > it. Like I said, you don't necessarily have to use the
processor.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"

> > > <digs4ruff@> wrote:
> > > >
> > > > Gordon
> > > > TVM Now all I need is an on-air confirmation but the bands
are
> > > > seldom open in Vancouver. Can anyone help with the setting
of
> the
> > > > processor.
> > > > thanks
> > > > Barry
> > > > VA7GEM
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > >
> > > > > Barry, When you adjust the Mic control, be is SSB
position (
> > > > either
> > > > > USB or LSB) and put the Meter switch in ALC position. Then
> adjust
> > > > the
> > > > > Mic control while speaking Normally into the Mic to stay
> within
> > > the
> > > > > ALC range. This is all done AFTER you have done the Tune
and
> The
> > > CW
> > > > > position Loading.
> > > > >
> > > > > 73,
> > > > > Gordon
> > > > > N6WK
> > > > >
> > > > > >
> > > > > > "COMP LEVEL
> > > > > > Adjust the state of compression by turning the knob
while
> > > observing
> > > > > > the COMP meter."
> > > > > >
> > > > > > Can this be translated to layman terms so that I might
> > > understand
> > > > > > what needle reading I am aiming for on which scale? In
USB
> &
> > > > Meter
> > > > > > set to COMP and COMP LEVEL max CW when I speak I see
> deflection

> > > > > > about 2/3 of ALC scale. What should I be setting this to
as
> my
> > > > goal.
> > > > > > >
> > > > > > > Tnx & 73s
> > > > > > > Barry
> > > > > > > VA7GEM
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > >
>

7890. Re: Original TS-820 Brochure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 23:16:47 UTC
From: Gordon
Topic: 7882 Message: 7890

Cute !!!
I like your Answer.. ;-)

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Gordon
> The brochure for the 820 should be worth $
> If it was for 820s it would be worth $s
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I was going through some papers here today and I came across one of
> > Kenwoods ORIGINAL brochures for the TS-820 (Not the S)
> > It's in Pretty darn good shape too.
> > They refer to the 820 as "the Kenwood TS820 Pacesetter"
> >
> > It starts off with " The pasesetter Transceiver is Here.......
> > the fruit of an all out effort by Kenwood's engineering
> > department....... then it goes on to say The finished product is
> > here, The Kenwood TS-820 Pacesetter. "
> > Kind of neat to read through.
> > I wonder if thing has any value out there?
> >
> > Gordon
> >
>

7891. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-03 23:18:08 UTC
From: Gordon
Topic: 7839 Message: 7891

Barry,
WHERE are you listening now ?? It is 4:17 here locally in So Cal.
Also, are you on now Ellen ??
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Ellen
> Tnx. Will listen for any calls from your area but nothing so far.
> Everyone says the bands will improve and if the newbies are having
> fun now it just gets better.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Ooops! Sorry. OK, lets try again.
> >
> > Barry, I live in Wisconsin. If you're willing to chance it, we
> might
> > be able to make it on 15 or 20m, if you want to do on-the-air
> setup
> > of your TS-820S processor. I'll leave it up to you. Lioke I
> said,
> > you don't have to necessarily use the processor with the radio.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Ellen,
> > > I think you meant to post this to Barry, not Gordon. ;-)
> > >
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Hi Gordon,
> > > >
> > > > I'm in Wisconsin, so 20 or 15 may be open between you and I,
> at
> > one
> > > > time or another. You're call about whether or not you want to

> > try
> > > > it. Like I said, you don't necessarily have to use the
> processor.
> > > > >
> > > > > 73,
> > > > > Ellen - AF9J
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > > > <digs4ruff@> wrote:
> > > > > > >
> > > > > > > Gordon
> > > > > > > TVM Now all I need is an on-air confirmation but the bands
> > are
> > > > > > > seldom open in Vancouver. Can anyone help with the setting
> > of
> > > the
> > > > > > > processor.
> > > > > > > thanks
> > > > > > > Barry
> > > > > > > VA7GEM
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> > > wrote:
> > > > > > > > >
> > > > > > > > > Barry, When you adjust the Mic control, be is SSB
> > position (
> > > > > > > either
> > > > > > > > > USB or LSB) and put the Meter switch in ALC position. Then
> > > adjust
> > > > > > > the
> > > > > > > > > Mic control while speaking Normally into the Mic to stay
> > > within
> > > > > > the
> > > > > > > > > ALC range. This is all done AFTER you have done the Tune
> > and
> > > The
> > > > > > CW
> > > > > > > > > position Loading.
> > > > > > > > >
> > > > > > > > > 73,
> > > > > > > > > Gordon
> > > > > > > > > N6WK
> > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > "COMP LEVEL
> > > > > > > > > > Adjust the state of compression by turning the knob
> > while
> > > > > > observing
> > > > > > > > > > the COMP meter."
> > > > > > > > > >

> > > > > > > Can this be translated to layman terms so that I might
> > > > > understand
> > > > > > > what needle reading I am aiming for on which scale? In
> USB
> > &
> > > > > Meter
> > > > > > > set to COMP and COMP LEVEL max CW when I speak I see
> > deflection
> > > > > > > about 2/3 of ALC scale. What should I be setting this to
> as
> > my
> > > > > goal.
> > > > > > > >
> > > > > > > Tnx & 73s
> > > > > > > Barry
> > > > > > > VA7GEM
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >

7892. Re: TS-820s Set Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-04 00:38:44 UTC
From: Gordon
Topic: 7839 Message: 7892

Barry,
THANK YOU for the nice QSO. Sorry band conditions were not Better.
Your Audio suonded GREAT !
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Barry,
> WHERE are you listening now ?? It is 4:17 here locally in So Cal.
> Also, are you on now Ellen ??
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > Ellen
> > Tnx. Will listen for any calls from your area but nothing so far.
> > Everyone says the bands will improve and if the newbies are having
> > fun now it just gets better.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Ooops! Sorry. OK, lets try again.
> > >
> > > Barry, I live in Wisconsin. If you're willing to chance it, we
> > might
> > > be able to make it on 15 or 20m, if you want to do on-the-air
> > setup
> > > of your TS-820S processor. I'll leave it up to you. Lioke I
> > said,
> > > you don't have to necessarily use the processor with the radio.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Ellen,
> > > > I think you meant to post this to Barry, not Gordon. ;-)
> > > >
> > > > 73,
> > > > Gordon
> > > >

> > > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > > <ellenjoanne2003@> wrote:
> > > > >
> > > > > Hi Gordon,
> > > > >
> > > > > I'm in Wisconsin, so 20 or 15 may be open between you and I,
> > at
> > > one
> > > > > time or another. You're call about whether or not you want to
> > > try
> > > > > it. Like I said, you don't necessarily have to use the
> > processor.
> > > > >
> > > > > 73,
> > > > > Ellen - AF9J
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > > > <digs4ruff@> wrote:
> > > > > >
> > > > > > Gordon
> > > > > > TVM Now all I need is an on-air confirmation but the bands
> > are
> > > > > > seldom open in Vancouver. Can anyone help with the setting
> > of
> > > the
> > > > > > processor.
> > > > > > thanks
> > > > > > Barry
> > > > > > VA7GEM
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> > > wrote:
> > > > > > >
> > > > > > > Barry, When you adjust the Mic control, be is SSB
> > position (
> > > > > > > either
> > > > > > > USB or LSB) and put the Meter switch in ALC position. Then
> > > adjust
> > > > > > > the
> > > > > > > Mic control while speaking Normally into the Mic to stay
> > > within
> > > > > > > the
> > > > > > > ALC range. This is all done AFTER you have done the Tune
> > and
> > > The
> > > > > > > CW
> > > > > > > position Loading.
> > > > > > >
> > > > > > > 73,
> > > > > > > Gordon

> > > > > > > N6WK
> > > > > > > >
> > > > > > > > >
> > > > > > > > > "COMP LEVEL
> > > > > > > > > Adjust the state of compression by turning the knob
> > while
> > > > > > > observing
> > > > > > > > > the COMP meter."
> > > > > > > > > >
> > > > > > > > > Can this be translated to layman terms so that I might
> > > > > > understand
> > > > > > > > > what needle reading I am aiming for on which scale? In
> > USB
> > > > &
> > > > > > Meter
> > > > > > > > > set to COMP and COMP LEVEL max CW when I speak I see
> > > deflection
> > > > > > > > about 2/3 of ALC scale. What should I be setting this to
> > as
> > > my
> > > > > > goal.
> > > > > > > > > >
> > > > > > > > > Tnx & 73s
> > > > > > > > > Barry
> > > > > > > > > VA7GEM
> > > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

7893. 820 multimeters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-04 10:58:40 UTC
From: Walt Breining
Topic: 7893 Message: 7893

Regarding the multimeter in the TS-820S.

In RF, it is reading relative RF volts. It is for tuning if you do not have an external wattmeter. It cannot be used to measure your output in watts. Because it is relative, this function does not have a meter scale dedicated to it. the RF control on the back of the radio should be adjusted so it reads 2/3 scale under full power CW on 40 meters.

IP. At the top of the multimeter, there is a scale labeled mA. It goes from 0 to 350. This is the scale to use when the meter switch is in IP.
In IP you are measuring the current flowing through the cathodes of the final tubes. For most practical purposes, this is the same as the plate current.

The second scale from the top is the S meter scale. It indicates the strength of the incoming signal on receive. This is used only on receive and is not dependant on the setting of the Meter (multimeter) switch. The Meter switch only operates on transmit.

HV. The third scale from the top is labeled HV. This is the scale to use when the meter switch is in HV. This scale goes from 0 to 10. This is a X 100 scale. 8 = 800 V 10 = 1000v. This measures the DC high voltage to the final tubes. A typical reading is around 800 Volts or 8 on the scale.

COMP. The fourth scale down is labeled COMP. This the scale to use when the meter switch is in COMP. This will only read on SSB and only when the speech processor is on. The Comp level control for the processor should never be set so it exceeds 20 dB. Typically it sounds best if set to 5 or 10 dB.

ALC.

The last (fifth) scale down is the ALC scale. It is a short scale. The top of this scale is just a little over half way across the meter.

In ALC it is measuring your relative driver output. This is derived from the Automatic Load Control voltage. When tuning up in CW or Tune, the meter should be in the ALC position when peaking the Drive control. The carrier control fully up when peaking the Drive.

When sending CW, the CAR (carrier control) should be adjusted to about 1/3 of this scale or less.

When operating SSB, the mike gain should be adjusted so voice peaks seldom exceed the top of this scale and if the speech processor is used, the mike gain should be set so the voice peaks average half way on this scale never exceeding the top.

Setting the PA idle current.

Set the multimeter in IP. Turn the mike gain fully down. Place the mode switch in USB or LSB.

Turn the MOX switch to transmit and note the reading on the mA (top) scale on the multimeter. It should read 60 mA. If it does not, adjust the bias adjustment on the rear of the radio for 60 mA.

Note: 100 on this scale is 100 mA. So 60 mA will be slightly more than half way between 0 and 100. The mark exactly half way between 0 and 100 represents 50 mA.

I find that it is easier to tune up these radios if an external watt meter is used. The multimeter can then be left on ALC and the wattmeter can be used instead of the RF meter function. This saves a lot of switching.

Not all watt meters are accurate. Many people worry that their rig is not transmitting properly when in actuality the watt meter that they are using is reading low. The load complex impedance affects the readings greatly. The most accurate readings are made when using a 50 - 52 ohm dummy load. An antenna with a very flat SWR can often be used, but in some cases a antenna with a flat SWR may still have some slight + or - reactance that will affect the watt meter reading.

Another common cause of slightly low output is low line voltage. They are designed for 117 to 120 volts. Reduced line voltage will result in low High Voltage to the final plates and reduced output. Other than reduced output, slightly lower than normal voltage will not cause any other serious problems unless it is changing when the rig is being modulated.

Sometimes the signal from a transmitter will affect the reading of the meter being used to measure line voltage. This usually does not happen if a dummy load is being used. If this happens and a dummy load is not available, check the voltage without transmitting and then plug an incandescent lamp into the same outlet or power strip the transmitter operates from. If the lamp dims noticeably when transmitting, this indicates that the voltage is swamping when transmitting.

Perhaps this will be helpful.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

7894. Need co-moderator

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-04 13:41:38 UTC
From: Bill
Topic: 7894 Message: 7894

Hi all,

We are in need of a co-moderator for this group to cover things while I am gone or unable to check things.

Activities include approving new members, maintaining the FILES, DATABASE and LINKS sections; moderating the group as necessary (about twice a year, perhaps!) and promoting the group as desired.

I spend probably 5 minutes a day, checking and approving new members, and attending to the above items. I would like to spend more time, particularly with the repairs database but job, business and family preclude that.

I would give preference to someone that has moderated or owned Yahoo groups before, is an active poster to the group and is a licensed ham radio operator. Prospective moderators do not have to reside in the U.S.

Please email me DIRECT if interested, thanks.

73,

Bill K0ZL

coorsbill at yahoo dot com

7895. Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-04 15:01:07 UTC
From: kc2aup@arrl.net
Topic: 7733 Message: 7895

Walt,

Sorry it took so long to respond to you on this, but thanks for the info. I have owned my 820S for about 4/5 years and have had a lot of good luck and audio reports with it.
So far the only thing I had to do was change out the 12BY7 tube and have the tuning slug reset for 20 M. Somehow it fell out of it's slot. I had them all re tuned and a small drop of silicone put on them so they do not move again. The radio seems to put out a little shy of 100 watts.

My mic set-up I am using all this time is an amplified D-104 with the 10DA Sideband head on it turned up only about half way. I have the radio fed into an MFJ 969 tuner (usually on the bypass mode). 50 feet of RG-8X goes into a 4 to 1 balun and into 4 separate dipoles on the roof.

I also run a TS-850S and an ICOM 735 all on an antenna switch with a couple of other verticals to cover 10-40 meters inclusive

Frank
kc2aup....

[Non-text portions of this message have been removed]

7896. Re: DD1K ?? (spectronics DD1-K + Henry DFD/K)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-04 15:35:35 UTC
From: james27613
Topic: 7874 Message: 7896

hi,

in Photos section of this group,
misc. page #2 are two photos.

the Spectroincs DD1-K uses LEDS
the Henry DFD-K uses Nixie tubes very retro !

Nice feature is these will work with all
kenwood 820/520 series, have internal ps,
just use pins 1+2 for the vfo signal to the
rca jack on the rear of the display.

Note these are not lab grade counters but very close for our use.

73 james ke4drn

7897. Re: [TS-520_820_530_830] DD1K ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 06:07:59 UTC
From: N3DOK
Topic: 7874 Message: 7897

Hi Daniel, Contact R&L via sales@... and ask them for information on the DD1K. On the used equipment page
the item is printed as
DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00

Bob N3DOK

----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 03, 2006 2:50 PM
Subject: [TS-520_820_530_830] DD1K ??

Hi Bob

DD1K?? How does this look like?? I don't find anything in the internet!

Daniel, HB9DDS

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, FYI Here is one for sale used. As of 6/3/06.
> R&L Electronics.
> http://www.randl.com/cart/usedeq.shtml
> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
>
> Bob N3DOK

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7898. Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 17:08:12 UTC
From: Hauser, Ron M.
Topic: 7898 Message: 7898

Ok, so I have looked back over the archives, because I think this has
been discussed before. But I can't find it. I have a TS830S.
Yesterday I had it on 10m and all was well. Later in the evening I
moved to 20m, and had various QSOs. Today I fired it up but I can get
no drive on 10m. I checked on other bands, and I still have drive on
other bands, same as before. I thought for sure there was a discussion
about this on this list, but I can't find it. I had to lose something
specific to the band to make that drop...

Any thoughts to point me in the right direction?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N3DOK
Sent: Monday, June 05, 2006 1:08 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] DD1K ??

Hi Daniel, Contact R&L via sales@... and ask them for information
on the DD1K. On the used equipment page
the item is printed as
DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00

Bob N3DOK

----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 03, 2006 2:50 PM
Subject: [TS-520_820_530_830] DD1K ??

Hi Bob

DD1K?? How does this look like?? I don't find anything in the
internet!

Daniel, HB9DDS

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, FYI Here is one for sale used. As of 6/3/06.
> R&L Electronics.
> http://www.randl.com/cart/usedeq.shtml

> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
>
> Bob N3DOK

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

7899. Re: [TS-520_820_530_830] Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 17:16:46 UTC
From: KD5SFA
Topic: 7898 Message: 7899

Ron,
Sounds like your bandswitch may need a little cleaning.
A little De-oxit carefully applied should solve the problem.

73,
Jon
KD5SFA

-----Original Message-----
>From: "Hauser, Ron M." <eichmann@...>
>Sent: Jun 5, 2006 12:08 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Lost drive on one band...
>
>Ok, so I have looked back over the archives, because I think this has
>been discussed before. But I can't find it. I have a TS830S.
>Yesterday I had it on 10m and all was well. Later in the evening I
>moved to 20m, and had various QSOs. Today I fired it up but I can get
>no drive on 10m. I checked on other bands, and I still have drive on
>other bands, same as before. I thought for sure there was a discussion
>about this on this list, but I can't find it. I had to lose something
>specific to the band to make that drop...
>
>Any thoughts to point me in the right direction?
>
>Thanks!
>--Ron
>KC0TLN
>

7900. Re: Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 18:09:50 UTC
From: Gordon
Topic: 7898 Message: 7900

Ron,
It sounds Exactly like a Dirty Band switch. Do you have some De
Oxite handy to spray it. Be sure the radio is OFF and Unplugged when
you spray it, work the band switch back and forth a bit, then let it
dry for a few minutes before plugging it back in
Part of the Band switch is INSIDE the Finals cage, so be sure to let
the High Voltage bleed down before getting inside there.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M."
<eichmann@...> wrote:
>
> Ok, so I have looked back over the archives, because I think this has
> been discussed before. But I can't find it. I have a TS830S.
> Yesterday I had it on 10m and all was well. Later in the evening I
> moved to 20m, and had various QSOs. Today I fired it up but I can get
> no drive on 10m. I checked on other bands, and I still have drive on
> other bands, same as before. I thought for sure there was a discussion
> about this on this list, but I can't find it. I had to lose something
> specific to the band to make that drop...
>
> Any thoughts to point me in the right direction?
>
> Thanks!
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N3DOK
> Sent: Monday, June 05, 2006 1:08 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] DD1K ??
>
> Hi Daniel, Contact R&L via sales@... and ask them for information
> on the DD1K. On the used equipment page
> the item is printed as
> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
> Bob N3DOK
>
>
>
>

>
> ----- Original Message -----
> From: Daniel
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, June 03, 2006 2:50 PM
> Subject: [TS-520_820_530_830] DD1K ??
>
>
> Hi Bob
>
> DD1K?? How does this look like?? I don't find anything in the
> internet!
>
> Daniel, HB9DDS
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@> wrote:
> >
> > Hi, FYI Here is one for sale used. As of 6/3/06.
> > R&L Electronics.
> > http://www.randl.com/cart/usedeq.shtml
> > DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
> >
> >
> > Bob N3DOK
>
>
>
>
>
>
> SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
>
>
> --
> ------
> YAHOO! GROUPS LINKS
>
> a.. Visit your group "TS-520_820_530_830" on the web.
>
> b.. To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> --
> ------

>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> This transmission is intended for the sole use of the individual and
entity to whom it is addressed. Privileged and confidential
information may be contained in this message. You are hereby notified
that any dissemination, distribution, or duplication of this
transmission by someone other then the intended addressee or its
designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that do
not relate to the official business of my organization shall be
understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify this
company immediately by reply to this transmission.
>

7901. RE: [TS-520_820_530_830] Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 17:46:40 UTC
From: Walter Milton
Topic: 7898 Message: 7901

Ron,

When it happened to my TS-830S about two years ago, just the 28.000 to 28.500. I had to have the band switch replaced. I hope this helps!

Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Hauser, Ron M.
Sent: Monday, June 05, 2006 1:08 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Lost drive on one band...

Ok, so I have looked back over the archives, because I think this has been discussed before. But I can't find it. I have a TS830S. Yesterday I had it on 10m and all was well. Later in the evening I moved to 20m, and had various QSOs. Today I fired it up but I can get no drive on 10m. I checked on other bands, and I still have drive on other bands, same as before. I thought for sure there was a discussion about this on this list, but I can't find it. I had to lose something specific to the band to make that drop...

Any thoughts to point me in the right direction?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N3DOK
Sent: Monday, June 05, 2006 1:08 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] DD1K ??

Hi Daniel, Contact R&L via sales@... and ask them for information on the DD1K. On the used equipment page the item is printed as
DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00

Bob N3DOK

----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 03, 2006 2:50 PM

Subject: [TS-520_820_530_830] DD1K ??

Hi Bob

DD1K?? How does this look like?? I don't find anything in the
internet!

Daniel, HB9DDS

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, FYI Here is one for sale used. As of 6/3/06.
> R&L Electronics.
> http://www.randl.com/cart/usedeq.shtml
> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
>
> Bob N3DOK

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity
to whom it is addressed. Privileged and confidential information may be
contained in this message. You are hereby notified that any dissemination,
distribution, or duplication of this transmission by someone other then the
intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not
relate to the official business of my organization shall be understood as
neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this
company immediately by reply to this transmission.

SPONSORED LINKS
Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio&w2=Craft+hobby&

w3=Hobby+and+craft+supply&c=3&s=60&.sig=Q3ZWABypJDd5YmYXbzsVzQ> radio
Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Ham+radio&w2=Craft+hobb
y&w3=Hobby+and+craft+supply&c=3&s=60&.sig=ZnXBknyULDAnZKOQwnbT0g> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Ham+radio&w2
=Craft+hobby&w3=Hobby+and+craft+supply&c=3&s=60&.sig=fLVuec3_R3javCvFd0735w
> and craft supply

YAHOO! GROUPS LINKS

* Visit your group "TS-520_820_530_830
<http://groups.yahoo.com/group/TS-520_820_530_830> " on the web.

* To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

7902. Re: Original Paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 19:32:29 UTC
From: pchapman9202003
Topic: 7751 Message: 7902

The computer paint machines do a pretty good job on anything but beige type colors in particular when there is a pinkish tone or something involved. Do not know why. Darker or just greyish offwhite, they do well. When I had a slight pinkish tint to a beige to match on some old paint couple years ago, gave up on the Lowes and Depot and had to go to an old fashioned paint store to get the match.

--- In TS-520_820_530_830@yahoogroups.com, "valuedprofile" <defaultprofile@...> wrote:
>
> I'd say take the panel off and hand it to the paint matcher at a Home
> Depot (or such). They should be able to get an exact match.
>
> f
>

7903. Re: [TS-520_820_530_830] Re: Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 20:22:51 UTC
From: Tibor (Tibi) Zentai
Topic: 7898 Message: 7903

********** REPLY SEPARATOR **********

On 2006.06.05. at 18:09 Gordon wrote:

>Ron,
> It sounds Exactly like a Dirty Band switch. Do you have some De
>Oxite handy to spray it. Be sure the radio is OFF and Unplugged when
>you spray it, work the band switch back and forth a bit, then let it
>dry for a few minutes before plugging it back in
>Part of the Band switch is INSIDE the Finals cage, so be sure to let
>the High Voltage bleed down before getting inside there.
>73,
>Gordon

Ron,

Were you inside the final cage, remember to check the plastic coupling. It
may be cracked that causes similar problem due to de-synchronizing wafer
switch (rotary switch) of the RF stage.

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

7904. Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 20:41:45 UTC
From: pchapman9202003
Topic: 7768 Message: 7904

Well said.

In addition, in as much as I love the Drake stuff, the copper chasis was not a good choice for long life in bad storage environments. That is first hand information. The revival rate for many pieces of old gear relies very heavy on the foundation of the rig itself. Copper is great decor on a home because it corodes. WTH?

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> The cheapest, and most effective way to increase your on the air
> signal, is just basic antenna improvements. Even something as simple
> as putting in newer/better feedline can add a dB or 2 to your
> signal. More antenna height will also help. Trying to get another
> 15 or 20 watts by modding the rig is a waste of time. Not only will
> it run harder, but like a modded guitar amp, will be more susecptable
> to distortion, run hotter, and components will have a shorter
> lifespan.
>
> Like Walt said, one of the things that makes our rigs cool, is that
> the finals are not beeing pushed way past design limits. You can't
> say this about rigs like the FT-101, the Drake's, and the Swan's,
> that will kill their finals in no time at all, if they are not tuned
> up properly. This is because they use TV sweep tubes, which were
> never intended for RF applications. Yeah, they can handle the power
> loads..... but they don't like it. 20 years of life from the
> original 6JS6c's - yeah, maybe if the rig was hardly ever used.
> 6146s with 20 years of life - sure, just treat them right. I still
> have the 6146Bs that came with my 820. They're down quite a bit on
> power (I can get maybe 45 watts out of them), but they're still good
> enough for use as backup/disaster tubes. When sweep tubes go, toss
> them, because they're usually toat.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >

> > The best tubes for the 820S are the S-2001 tubes it originally
came
> with. The 6146B type are almost as good. There is no magic tube
that
> will give your rig more output. There has been a mod floating
around
> that involves changing the screen voltage among other things and
will
> slightly increase the output but runs the tubes, many of the
> components, and the transformer to death. I highly recommend
against
> it. Remember, these rigs have some age on them.
> >
> > Lets put this in perspective. If you double your power, you gain
3
> dB. 6 dB is an S unit. So doubling your power is 1/2 an S unit.
Now
> the power increase does not double your power, it increases it by
> less than one third. So this will only be noticed on your watt
meter,
> and would never be seen at the receiving end. The price you pay to
> see the watt meter read slightly higher is shortened tube life,
> shortened life of the rig, more intermodulation distortion.
> >
> > If you want a meaningful increase in your signal, there are much
> better ways. The way to get a real power increase is to get an
> amplifier. If I knew your set up, I might be able to recommend ways
> to improve your antenna efficiency for an improvement greater than
> hot rodding the rig can give you. Depending on what mike you are
> using, increasing your audio response and duty cycle can increase
> your strength to the listener's ear.
> >
> > One of the advantages of the TS-820 and similar Hybrid Kenwood
rigs
> is that they do not run the tubes to death as does the Yaesu FT-
101.
> My TS-820 still has the original S-2001s in it.
> >
> > Your TS-820 is a fine rig that will probably give you years of
good
> service. Don't destroy it with mods that will be meaningless on the
> air.
> >
> > I love my TS-820.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----
> > From: kc2aup@
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 8:55 PM

> > Subject: Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL
> >
> >
> > Speaking of tubes....Someone told me that in the 820S, if you
> made a change
> > of the 6146 tubes to another number or type, you can get more
out
> of it. Any
> > truth to this? And if so, does the 12BY7 tube have to be
changed
> also?
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> > --
--
> ----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > --
--
> ----------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

7905. Re: Available 6146 tubes...FL

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 21:11:33 UTC
From: pchapman9202003
Topic: 7768 Message: 7905

Agree again...Summer project....Get the G5 up another 15-20 feet, as the tree is right there. That will get me above the highest neighbor within a good mile or so. Chances are, no harm will be done, and if so, still have a multi strand string going to the same branch. Chances are, the multi strand string will come down soon.

Dead on, Ellen.

I will just step more softly and spray a lot of weed killer this year. If I walk up on another Timbersnake this year, I would like to see it sooner...aka rattlesnake that climbs trees

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> The cheapest, and most effective way to increase your on the air
> signal, is just basic antenna improvements. Even something as simple
> as putting in newer/better feedline can add a dB or 2 to your
> signal. More antenna height will also help. Trying to get another
> 15 or 20 watts by modding the rig is a waste of time. Not only will
> it run harder, but like a modded guitar amp, will be more susecptable
> to distortion, run hotter, and components will have a shorter
> lifespan.
>
> Like Walt said, one of the things that makes our rigs cool, is that
> the finals are not beeing pushed way past design limits. You can't
> say this about rigs like the FT-101, the Drake's, and the Swan's,
> that will kill their finals in no time at all, if they are not tuned
> up properly. This is because they use TV sweep tubes, which were
> never intended for RF applications. Yeah, they can handle the power
> loads..... but they don't like it. 20 years of life from the
> original 6JS6c's - yeah, maybe if the rig was hardly ever used.
> 6146s with 20 years of life - sure, just treat them right. I still
> have the 6146Bs that came with my 820. They're down quite a bit on
> power (I can get maybe 45 watts out of them), but they're still good
> enough for use as backup/disaster tubes. When sweep tubes go, toss
> them, because they're usually toat.
>
> 73,
> Ellen - AF9J
>

> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > The best tubes for the 820S are the S-2001 tubes it originally
came
> with. The 6146B type are almost as good. There is no magic tube
that
> will give your rig more output. There has been a mod floating
around
> that involves changing the screen voltage among other things and
will
> slightly increase the output but runs the tubes, many of the
> components, and the transformer to death. I highly recommend
against
> it. Remember, these rigs have some age on them.
> >
> > Lets put this in perspective. If you double your power, you gain
3
> dB. 6 dB is an S unit. So doubling your power is 1/2 an S unit.
Now
> the power increase does not double your power, it increases it by
> less than one third. So this will only be noticed on your watt
meter,
> and would never be seen at the receiving end. The price you pay to
> see the watt meter read slightly higher is shortened tube life,
> shortened life of the rig, more intermodulation distortion.
> >
> > If you want a meaningful increase in your signal, there are much
> better ways. The way to get a real power increase is to get an
> amplifier. If I knew your set up, I might be able to recommend ways
> to improve your antenna efficiency for an improvement greater than
> hot rodding the rig can give you. Depending on what mike you are
> using, increasing your audio response and duty cycle can increase
> your strength to the listener's ear.
> >
> > One of the advantages of the TS-820 and similar Hybrid Kenwood
rigs
> is that they do not run the tubes to death as does the Yaesu FT-
101.
> My TS-820 still has the original S-2001s in it.
> >
> > Your TS-820 is a fine rig that will probably give you years of
good
> service. Don't destroy it with mods that will be meaningless on the
> air.
> >
> > I love my TS-820.
> >
> > Vy 73, Walt N9WB
> > ----- Original Message -----

> > From: kc2aup@
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, May 23, 2006 8:55 PM
> > Subject: Fwd: [TS-520_820_530_830] Re: Available 6146 tubes...FL
> >
> >
> > Speaking of tubes....Someone told me that in the 820S, if you
> made a change
> > of the 6146 tubes to another number or type, you can get more
out
> of it. Any
> > truth to this? And if so, does the 12BY7 tube have to be
changed
> also?
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply
> >
> >
> > ---
--
> ----------
> > YAHOO! GROUPS LINKS
> >
> > a.. Visit your group "TS-520_820_530_830" on the web.
> >
> > b.. To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of Service.
> >
> >
> > ---
--
> ----------
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

7906. Strange problem on TS520 (help)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-05 22:05:28 UTC
From: m_m_maxau
Topic: 7906 Message: 7906

G'day Guys

I have a TS520 that has a strange problem,

It starting arching across one of the final tubes, but at the same time the panel lights dimmed quite low and you could hear the "zzz" noise of the arching.

It also started smoking from the vicinty of the finals.

I think that I may have cooked something as I accidently loaded up the tuning in CW not tune.

Sounds to me like the plate voltage has gone troppo, but I don't know alot about these.

I have also noticed that when I switched to tune the meter deflected all the way to the right and stayed there until I turned the radio on and off again then it slowly went back to the left.

Any ideas for this dumb VK from Downunder?

Thanks
Anthony

7907. Re: Strange problem on TS520 (help)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-06 03:22:59 UTC
From: Gordon
Topic: 7906 Message: 7907

Anthony, You sure one of your Finals just didn't give Up on you ?
Kinda sounds like it. If it Arc's in side, it will draw a LOT of
current. In favt, usually, it will BLOW the fuse when that happens.

Gordon

N6WK

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
>
> G'day Guys
>
> I have a TS520 that has a strange problem,
>
> It starting arching across one of the final tubes, but at the same
> time the panel lights dimmed quite low and you could hear the "zzz"
> noise of the arching.
>
> It also started smoking from the vicinty of the finals.
>
> I think that I may have cooked something as I accidently loaded up
> the tuning in CW not tune.
>
> Sounds to me like the plate voltage has gone troppo, but I don't
> know alot about these.
>
> I have also noticed that when I switched to tune the meter deflected
> all the way to the right and stayed there until I turned the radio
> on and off again then it slowly went back to the left.
>
> Any ideas for this dumb VK from Downunder?
>
> Thanks
> Anthony
>

7908. TS 830S RX PLL "Out of Lock"

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-06 04:14:22 UTC
From: Bill Marvin
Topic: 7908 Message: 7908

Hi Group,

My TS830 is OOL on RX only no display. TX is fine. I found on
the AF Board the 9V and 3.6V RX was < 1.0VDC but the 12 VDC to be OK.

Q30 and Q34 are the pass transistor's for VR1 9vdc and VR3 3.6vdc
respectfully on the AF Brd.

Any Ideas??

Bill

7909. Re: TS 830S RX PLL "Out of Lock"

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-06 04:33:20 UTC
From: Gordon
Topic: 7908 Message: 7909

Bill,
I do NOT have an 830 Schematic in front of me, but if the 9 V source
is < 1.0 volts, I would start by tracing that circuit backwards.
Sounds like you have an Open Resistor some where in that circuit. I
will see if I can dig up a good schematic of an 830 to see if i can
help you out. Still, I will bet you have an open Resistor...
Do you hapen to have a good schematic that I can look at for your 830 ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Marvin" <wmarvin@...>
wrote:
>
> Hi Group,
>
> My TS830 is OOL on RX only no display. TX is fine. I found on
> the AF Board the 9V and 3.6V RX was < 1.0VDC but the 12 VDC to be OK.
>
> Q30 and Q34 are the pass transistor's for VR1 9vdc and VR3 3.6vdc
> respectfully on the AF Brd.
>
> Any Ideas??
>
> Bill
>

7910. TS520S S-meter lamps

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-06 21:20:21 UTC
From: holopainen_tommi
Topic: 7910 Message: 7910

What is right bulb in S-meter lamp type /Volts / Watts?

Tommi oh7jjt

7911. Group changes pt II

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 02:47:23 UTC
From: Bill
Topic: 7911 Message: 7911

Now for the nitty... Any moderator or co-owner can be easily reached by logging into the group and clicking on Members, there on the left side. Then at the top of the membership list, just click on Moderators and the list will pop up. Any one of our fine new management group will be able to help you out with just about anything.

I don't forsee the group changing direction or policy anytime soon. But any changes if needed will be up to the moderator/owner team. And of course if anyone has any ideas that will improve the group, just run them by the mods, or post directly and everyone can comment on your idea if you want. Some would say, "if it ain't broke", etc, but how do you know? hi.

Anyway it has been my great pleasure to have been involved with the group since the very beginning. We have seen scads of these great old rigs fixed as a direct result of the interaction on this group, and of course our personal technical skills have all improved somewhat, just from being involved. And isn't that what ham radio is all about?

I intend to stay involved as much as I can. I will be coming in with a new email and ID (I really like Gmail!). I will leave it up to our new moderator/owner team to decide who does what and when with the group so there is the least chance of conflict.

73 and may God bless you all,

Bill K0ZL

7912. Re: [TS-520_820_530_830] TS520S S-meter lamps

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 03:01:51 UTC
From: Tibor (Tibi) Zentai
Topic: 7910 Message: 7912

********** REPLY SEPARATOR **********

On 2006.06.06. at 21:20 holopainen_tommi wrote:

>What is right bulb in S-meter lamp type /Volts / Watts?
>
>Tommi oh7jjt

Hi Tommi,

12-13,5V 1,5W. You can buy it in car accesorries and parts shops.

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

7913. Re: [TS-520_820_530_830] Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 04:09:09 UTC
From: Bill Scurlock
Topic: 7898 Message: 7913

Hi Ron.

You are getting good comments on the bandswitch. In addition, you should check L36 and C74 on the RF Board. A few months ago two of us experienced L36 becoming shorted which affected the drive level on one or two bands. In my case, it was 15M - all the other bands appeared to be working fine. I think what happens, as these components change value, is that a series resonance takes place which will short out the resonant frequency and reduce or eliminate the drive signal on that band, or a range of frequencies that may affect more than one band. In any case, replacing L36 restored 15M operation on my TS-830S. I think VK5KYO did a nice writeup on this situation which was placed in this group's files for reference - you may want to check on that.

If it is the bandswitch, it can be repaired with some time and patience. Go to K4EAA's website where he has a fairly detailed written procedure to do that - complete with photographs. It took me about 3 days work to completely remove all the bandswitch wafers, fix the contact problems, and reinstall everything. If you do this, just go slow and keep good records of where everything goes.

Good Luck with your 830, and have fun.

73, Bill, K5GCW
----- Original Message -----
From: Hauser, Ron M.
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, June 05, 2006 12:08 PM
Subject: [TS-520_820_530_830] Lost drive on one band...

Ok, so I have looked back over the archives, because I think this has
been discussed before. But I can't find it. I have a TS830S.
Yesterday I had it on 10m and all was well. Later in the evening I
moved to 20m, and had various QSOs. Today I fired it up but I can get
no drive on 10m. I checked on other bands, and I still have drive on
other bands, same as before. I thought for sure there was a discussion
about this on this list, but I can't find it. I had to lose something
specific to the band to make that drop...

Any thoughts to point me in the right direction?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N3DOK
Sent: Monday, June 05, 2006 1:08 AM
To: TS-520_820_530_830@yahoogroups.com

Subject: Re: [TS-520_820_530_830] DD1K ??

Hi Daniel, Contact R&L via sales@... and ask them for information
on the DD1K. On the used equipment page
the item is printed as
DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00

Bob N3DOK

----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 03, 2006 2:50 PM
Subject: [TS-520_820_530_830] DD1K ??

Hi Bob

DD1K?? How does this look like?? I don't find anything in the
internet!

Daniel, HB9DDS

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, FYI Here is one for sale used. As of 6/3/06.
> R&L Electronics.
> http://www.randl.com/cart/usedeq.shtml
> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
>
> Bob N3DOK

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

7914. IP Max on TS820 in CW mode

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 05:09:50 UTC
From: Ron Hauser
Topic: 7914 Message: 7914

Ok, so I have two of these old kenwoods, a TS820S and a TS830S. After my success yesterday of opening up my 830 and fixing some stuff... I decided to get on with the repairs of my 820. My 820 fried its cathode resistors, and a friend tested the tubes and they tested pretty bad. So the plan was to replace the cathode resistors, replace the tubes, neutralize them, and keep my fingers crossed. I built the lightbulb tester recommended by Walt, and when I powered up the rig, I got a very brief bright light as the capacitors charged, then a nice safe dim light. Whew! So the tubes seem ok. I set up a wattmeter and dummy load, and used the Walt method to get the peak of the power to match up identically with the dip of the plate. This seemed to work just fine, I spent a lot of time sweating it to try to get it "perfect"... I'm not sure it is perfect but it is very very close, so I think that is ok. Many thanks to all the wise contributors on this list, I would never have taken on this level of repair without the knowledge that is passed so freely on this list.

So I have a simple question. The 830 manual says to load up the IP to no more than 265 ma, and in CW with the CAR control turned down to get no ALC, I have about 250-255ma, and 100w out. With the same wattmeter, when I load up my 820, I can get 100w out, with around the same 250ma. But for some reason the manual for the 820 says don't run more than 200ma in cw. I turn the CAR control down to 200ma, and I have about 50w out. This isn't really a problem the doubling of power isn't increasing the received signal that much, but I just wonder if this makes sense. The same tubes, same driver tube, same HV levels... Why not run the 820 at 250ma and 100w? Is this just conservative recommendation from when the manual was written?

73
--Ron
KC0TLN

7915. RE: [TS-520_820_530_830] Lost drive on one band...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 04:59:19 UTC
From: Ron Hauser
Topic: 7898 Message: 7915

Bill, thanks for the encouraging words. After my 10m band mysteriously disappeared, I finally made time to take the radio to the basement and open it up; and indeed, the deoxit fixed 10m. However, it didn't fix the no drive on 30m, which I have "always" had. While I had it open I was able to check that the WARC bands were enabled (they are, all). At that time I couldn't find the long and descriptive email from VK5KYO, so I closed it back up and tested it out. Success, and also success on another little fix, I recentered the RIT and turned down the gain on the sidetone. As you recommend, I have now found the emails referring to L36 and C74 on the RF board, so next time I have it open I will test those. Worst case I will have to do the bandswitch.

Much thanks to this group for the positive advice and support, to help an electronic klutz like me to fix my own radio! It gives great satisfaction!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill Scurlock
Sent: Tuesday, June 06, 2006 11:09 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Lost drive on one band...

Hi Ron.

You are getting good comments on the bandswitch. In addition, you should check L36 and C74 on the RF Board. A few months ago two of us experienced L36 becoming shorted which affected the drive level on one or two bands. In my case, it was 15M - all the other bands appeared to be working fine. I think what happens, as these components change value, is that a series resonance takes place which will short out the resonant frequency and reduce or eliminate the drive signal on that band, or a range of frequencies that may affect more than one band. In any case, replacing L36 restored 15M operation on my TS-830S. I think VK5KYO did a nice writeup on this situation which was placed in this group's files for reference - you may want to check on that.

If it is the bandswitch, it can be repaired with some time and patience. Go to K4EAA's website where he has a fairly detailed written procedure to do that - complete with photographs. It took me about 3 days work to completely remove all the bandswitch wafers, fix the contact problems, and reinstall everything. If you do this, just go slow and keep good records of where everything goes.

Good Luck with your 830, and have fun.

73, Bill, K5GCW
----- Original Message -----
From: Hauser, Ron M.
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, June 05, 2006 12:08 PM
Subject: [TS-520_820_530_830] Lost drive on one band...

Ok, so I have looked back over the archives, because I think this has
been discussed before. But I can't find it. I have a TS830S.
Yesterday I had it on 10m and all was well. Later in the evening I
moved to 20m, and had various QSOs. Today I fired it up but I can get
no drive on 10m. I checked on other bands, and I still have drive on
other bands, same as before. I thought for sure there was a discussion
about this on this list, but I can't find it. I had to lose something
specific to the band to make that drop...

Any thoughts to point me in the right direction?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N3DOK
Sent: Monday, June 05, 2006 1:08 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] DD1K ??

Hi Daniel, Contact R&L via sales@... and ask them for information
on the DD1K. On the used equipment page
the item is printed as
DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00

Bob N3DOK

----- Original Message -----
From: Daniel
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 03, 2006 2:50 PM
Subject: [TS-520_820_530_830] DD1K ??

Hi Bob

DD1K?? How does this look like?? I don't find anything in the
internet!

Daniel, HB9DDS

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, FYI Here is one for sale used. As of 6/3/06.

> R&L Electronics.
> http://www.randl.com/cart/usedeq.shtml
> DD1K DIGITAL FREQUENCY DISPLAY FOR KENWOOD TS520 $ 95.00
>
>
> Bob N3DOK

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and
entity to whom it is addressed. Privileged and confidential information may
be contained in this message. You are hereby notified that any
dissemination, distribution, or duplication of this transmission by someone
other then the intended addressee or its designated agent is strictly
prohibited.
Opinions, conclusions and other information in this message that do not
relate to the official business of my organization shall be understood as
neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this
company immediately by reply to this transmission.

SPONSORED LINKS Ham radio Craft hobby Hobby and craft supply

YAHOO! GROUPS LINKS

a.. Visit your group "TS-520_820_530_830" on the web.

b.. To unsubscribe from this group, send an email to:
TS-520_820_530_830-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

--

[Non-text portions of this message have been removed]

Yahoo! Groups Links

7916. Re: [TS-520_820_530_830] IP Max on TS820 in CW mode

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 10:12:55 UTC
From: Walt Breining
Topic: 7914 Message: 7916

Ron:

Good going on your 820 repair!

If with the carrier control at maximum, The drive is peaked for maximum ALC and the Load and then the Plate are peaked for maximum watt meter reading, I would not worry about running 250 ma. If you are going to run SSB, you can leave the carrier control at max as it does not affect SSB. However, if you are going to run CW, note the following.

After adjusting the 820 for maximum output on CW, if you are going to operate CW reduce the carrier control to the point that the watt meter just starts to drop. You may show little or no ALC reading at this point. Your CW wave form will be cleaner than if you are running a lot of ALC control.

Be sure that your idle current is 60 ma. This is done by placing the rig on LSB or USB, turning the mike gain fully down and checking the IP. It should read 60 ma. If not very close to this, set it with the bias control on the back of the TS-820.

Be sure that you have the correct fuse installed. 6a for 120v operation. That way if a tube should short again, it will blow the fuse and save the transformer.

It is also possible that the cathode resistors are a bit high in value making the IP meter read high. These are the meter shunt and will affect the meter accuracy in IP.

But I really wouldn't worry about it a lot.

Vy 73, Walt N9WB

----- Original Message -----
From: Ron Hauser
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 07, 2006 12:09 AM
Subject: [TS-520_820_530_830] IP Max on TS820 in CW mode

Ok, so I have two of these old kenwoods, a TS820S and a TS830S. After my success yesterday of opening up my 830 and fixing some stuff... I decided to get on with the repairs of my 820. My 820 fried its cathode resistors, and a friend tested the tubes and they tested pretty bad. So the plan was to replace the cathode resistors, replace the tubes, neutralize them, and keep my fingers crossed. I built the lightbulb tester recommended by Walt, and when I powered up the rig, I got a very brief bright light as the capacitors charged, then a nice safe dim light. Whew! So the tubes seem ok. I set up a wattmeter and dummy load, and used the Walt method to get the peak of the power to match up identically with the dip of the plate. This seemed to work just fine, I spent a lot of time sweating it to try to get it "perfect"... I'm not sure it is perfect but it is very very close, so I think that is ok. Many thanks to all the wise contributors on this list, I

would never have taken on this level of repair without the knowledge that is passed so freely on this list.

So I have a simple question. The 830 manual says to load up the IP to no more than 265 ma, and in CW with the CAR control turned down to get no ALC, I have about 250-255ma, and 100w out. With the same wattmeter, when I load up my 820, I can get 100w out, with around the same 250ma. But for some reason the manual for the 820 says don't run more than 200ma in cw. I turn the CAR control down to 200ma, and I have about 50w out. This isn't really a problem the doubling of power isn't increasing the received signal that much, but I just wonder if this makes sense. The same tubes, same driver tube, same HV levels... Why not run the 820 at 250ma and 100w? Is this just conservative recommendation from when the manual was written?

73
--Ron
KC0TLN

[Non-text portions of this message have been removed]

7917. RE: [TS-520_820_530_830] IP Max on TS820 in CW mode

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 13:49:40 UTC
From: Ron Hauser
Topic: 7914 Message: 7917

Hi Walt, thanks for your reply. Ok on all. I decided to get into these hybrid rigs to be able to learn about tubes, so it is very satisfying to start feeling like I somewhat know what is going on. I appreciate all your help.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Wednesday, June 07, 2006 5:13 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] IP Max on TS820 in CW mode

Ron:

Good going on your 820 repair!

If with the carrier control at maximum, The drive is peaked for maximum ALC and the Load and then the Plate are peaked for maximum watt meter reading, I would not worry about running 250 ma. If you are going to run SSB, you can leave the carrier control at max as it does not affect SSB. However, if you are going to run CW, note the following.

After adjusting the 820 for maximum output on CW, if you are going to operate CW reduce the carrier control to the point that the watt meter just starts to drop. You may show little or no ALC reading at this point. Your CW wave form will be cleaner than if you are running a lot of ALC control.

Be sure that your idle current is 60 ma. This is done by placing the rig on LSB or USB, turning the mike gain fully down and checking the IP. It should read 60 ma. If not very close to this, set it with the bias control on the back of the TS-820.

Be sure that you have the correct fuse installed. 6a for 120v operation. That way if a tube should short again, it will blow the fuse and save the transformer.

It is also possible that the cathode resistors are a bit high in value making the IP meter read high. These are the meter shunt and will affect the meter accuracy in IP.

But I really wouldn't worry about it a lot.

Vy 73, Walt N9WB

----- Original Message -----
From: Ron Hauser
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 07, 2006 12:09 AM
Subject: [TS-520_820_530_830] IP Max on TS820 in CW mode

Ok, so I have two of these old kenwoods, a TS820S and a TS830S. After my success yesterday of opening up my 830 and fixing some stuff... I decided to
get on with the repairs of my 820. My 820 fried its cathode resistors, and a friend tested the tubes and they tested pretty bad. So the plan was to replace the cathode resistors, replace the tubes, neutralize them, and keep
my fingers crossed. I built the lightbulb tester recommended by Walt, and when I powered up the rig, I got a very brief bright light as the capacitors
charged, then a nice safe dim light. Whew! So the tubes seem ok. I set up a wattmeter and dummy load, and used the Walt method to get the peak of the
power to match up identically with the dip of the plate. This seemed to work just fine, I spent a lot of time sweating it to try to get it "perfect"... I'm not sure it is perfect but it is very very close, so I think that is ok. Many thanks to all the wise contributors on this list, I would never have taken on this level of repair without the knowledge that is
passed so freely on this list.

So I have a simple question. The 830 manual says to load up the IP to no more than 265 ma, and in CW with the CAR control turned down to get no ALC,
I have about 250-255ma, and 100w out. With the same wattmeter, when I load up my 820, I can get 100w out, with around the same 250ma. But for some reason the manual for the 820 says don't run more than 200ma in cw. I turn the CAR control down to 200ma, and I have about 50w out. This isn't really a problem the doubling of power isn't increasing the received signal that much, but I just wonder if this makes sense. The same tubes, same driver tube, same HV levels... Why not run the 820 at 250ma and 100w? Is this just
conservative recommendation from when the manual was written?

73
--Ron
KC0TLN

[Non-text portions of this message have been removed]

Yahoo! Groups Links

7918. Re: IP Max on TS820 in CW mode

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 14:28:21 UTC
From: Ellen R
Topic: 7914 Message: 7918

Ron,

I agree with Walt. I do the usual tuning method described in the manual (which frankly isn't that much different than the method desribed for the TS-830S), for my TS-820 (the 1st year "before 820S" version fo your 820S). I then turn the carrier down to Max ALC (or as Walt said, just when the RF output starts the drop). After max ALC, you really won't get much more output power out of the rig, and all you'll end up doing is working the driver tube (and possibly the finals) hard, and possibly dirtying up your CW waveform. It's actually a good practice to turn the carrier/drive back down into the ALC range, for any tube or hybrid rig, to help keep the CW waveform cleaner, and prolong tube life.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Ron:
>
> Good going on your 820 repair!
>
> If with the carrier control at maximum, The drive is peaked for maximum ALC and the Load and then the Plate are peaked for maximum watt meter reading, I would not worry about running 250 ma. If you are going to run SSB, you can leave the carrier control at max as it does not affect SSB. However, if you are going to run CW, note the following.
>
> After adjusting the 820 for maximum output on CW, if you are going to operate CW reduce the carrier control to the point that the watt meter just starts to drop. You may show little or no ALC reading at this point. Your CW wave form will be cleaner than if you are running a lot of ALC control.
>
> Be sure that your idle current is 60 ma. This is done by placing the rig on LSB or USB, turning the mike gain fully down and checking the IP. It should read 60 ma. If not very close to this, set it with the bias control on the back of the TS-820.
>
> Be sure that you have the correct fuse installed. 6a for 120v operation. That way if a tube should short again, it will blow the fuse and save the transformer.
>

> It is also possible that the cathode resistors are a bit high in value making the IP meter read high. These are the meter shunt and will affect the meter accuracy in IP.
>
> But I really wouldn't worry about it a lot.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: Ron Hauser
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, June 07, 2006 12:09 AM
> Subject: [TS-520_820_530_830] IP Max on TS820 in CW mode
>
>
> Ok, so I have two of these old kenwoods, a TS820S and a TS830S. After my
> success yesterday of opening up my 830 and fixing some stuff... I decided to
> get on with the repairs of my 820. My 820 fried its cathode resistors, and
> a friend tested the tubes and they tested pretty bad. So the plan was to
> replace the cathode resistors, replace the tubes, neutralize them, and keep
> my fingers crossed. I built the lightbulb tester recommended by Walt, and
> when I powered up the rig, I got a very brief bright light as the capacitors
> charged, then a nice safe dim light. Whew! So the tubes seem ok. I set up
> a wattmeter and dummy load, and used the Walt method to get the peak of the
> power to match up identically with the dip of the plate. This seemed to
> work just fine, I spent a lot of time sweating it to try to get it
> "perfect"... I'm not sure it is perfect but it is very very close, so I
> think that is ok. Many thanks to all the wise contributors on this list, I
> would never have taken on this level of repair without the knowledge that is
> passed so freely on this list.
>
> So I have a simple question. The 830 manual says to load up the IP to no
> more than 265 ma, and in CW with the CAR control turned down to get no ALC,

> I have about 250-255ma, and 100w out. With the same wattmeter,
when I load
> up my 820, I can get 100w out, with around the same 250ma. But
for some
> reason the manual for the 820 says don't run more than 200ma in
cw. I turn
> the CAR control down to 200ma, and I have about 50w out. This
isn't really
> a problem the doubling of power isn't increasing the received
signal that
> much, but I just wonder if this makes sense. The same tubes, same
driver
> tube, same HV levels... Why not run the 820 at 250ma and 100w? Is
this just
> conservative recommendation from when the manual was written?
>
> 73
> --Ron
> KC0TLN
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

7919. Group changes Pt I

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 17:10:29 UTC
From: Bill
Topic: 7919 Message: 7919

Well I spent a lot of time typing up an intro to the group for our new moderators and co-owner, only to have Yahoo eat it. I hope Yahoo got indigestion, big time!

Anyway please let me introduce our new moderators.

Jon KD5SFA has been with me from the beginning of the group, and also is helping on at least two other groups, Amateur-repairs and HAMFTP.

Ellen, AF9J is relatively new to the group but not to Yahoo groups; she moderates two other groups, one ham-related and one not.

Gordon, N6WK comes to us from the SKCC (Straight Key Century Club).

I would like to thank Jon, Ellen and Gordon for stepping up to help. I had several other group members offer to help out, please forgive me if I did not acknowledge each on individually as would be proper. THANK YOU.

Last but not least, please welcome Walt, N9WB as our new co-owner. Walt has been around since I first started forming some of the Yahoo ham radio groups and I think he belongs to all the ones I have started (and one or two I have since left!). Walt is a good moderator and a steady contributor.

Everyone that sent me an email offering help mentioned how great this group is and I would have to second those opinions. We have seen very many rigs repaired and a lot of personal growth and development among our members; this is very gratifying and one of the main reasons we do this.

I don't forsee a lot of changes for the group in regards to policies and so forth. We are currently deciding whether to open up the membership list so that members can "see" other members and contact moderators more easily; we will do it in such a way that your emails will be hidden from bots and spiders.

Again, thanks so much to Jon, Ellen, Gordon and Walt for stepping up to help out; to all those who wrote in but were not selected, and most of all to all of our group members, who make this thing work!

Vy 73 and God bless,

Bill K0ZL

7920. RE: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 18:23:10 UTC
From: Hauser, Ron M.
Topic: 6444 Message: 7920

Joan and Bill: The question first. When you test C74 and L36 on the RF board, how do you get probes onto them? Do you have to remove the bandswitch pull the RF board to get to the contacts on the bottom side? (ack).

I have been doing some testing on the bandswitch contacts and they show very low resistance so I tend to think that is not my problem. It's not proof I know, but I'd really rather find a specific measurable problem before I really start tearing the radio apart. I have no drive at all on 30m, and only 30m, and I really suspect this same problem on the RF board at C74 and L36.

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Joan de vk5kyo
Sent: Sunday, February 05, 2006 9:48 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS830S low power

Hi everybody

For those interested in my original posting of the message, read below.

I am assuming that no other person has seen this problem before, except Bill-K5GCW who got in contact with me and explained he has the same problem with his 830, even after spending some considerable time cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your lucky, it may be the same problem.

A recent posting by another Bill-WB5DX, who cleaned the switches with de-oxid?? and has gone backwards in the process, may also be interested in reading this, because I think Bill may have disturbed the rivet connections of the wafers, or maybe some cleaning material is lodged in the switch as it is difficult to get in there, or he may have even bend some of the contacts. Its not hard to do.

Anyway
I did as what most of you would do and that is to remove the RF board, number each wafer, desolder each one and clean the switches and while it's out, you also solder each wafer contact to the track of the switch. This requires a lot of patience and a bit of skill to reassemble and realign all the switches before soldering them back on the board.

I found a number of contacts which were loose. The rivets were not doing their job anymore. The material must have shrunk a little. This is why you have to solder them, if you want the 830 to be reliable.

Now in Australia I heard of a saying, that whenever something gets serviced (be it electronics or otherwise), they say that "it has gone in for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I could relate to that. 2 of the switches had a liberal coating of a thick, greasy substance, and the RF board had a coating of what appears to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited measurements because the way it's mounted, and access to the track side of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced and with excitement put it together. I improved the output on 21 MHz considerably, but still not much happening on 18.
If you study the circuit, you will wonder how this capacitor could have an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone nearly short. It measured 30uH with a large D factor. The original value is 470uH.
Needless to say, I was very excited to have found it long last. I put it all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a good outcome.
I have learned a lot from this repair. One of them is that the circuit from Kenwood has mistakes in it. One that led me on the wrong path for some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem from all the symptoms it gave and I would have never guessed the faulty components. When you check everything methodically and logically over and over and over again and it still dont work, you know your in a bit of trouble.
So in the end, finding the problem, was it a fluke, lucky maybe? I dont know. What I did learn, was to make no assumptions, lots of patience, be tenacious, dont doubt what you have learned in the past, how the circuit

works and I can go on. I feel great about it and someone more
experienced may have done it in a tenth of my time, but you can never
put a price on what you learn. I am sure the owner of the rig will be
very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you
readers that may develop this fault later on in the rigs life, you will
save some time repairing it and get it back on air asap.
73 from down under

Joan VK5KYO

vk5kyo wrote:

> Hi all
>
> Having read all the positive comments in this group, I have decided
> that it is a must for any amateur to drive a Kenwood 830 if given
> the opportunity.
> Well the opportunity has come but something under the bonnet is not
> well.
> I have volunteered to repair an 830 of which the owner is
> complaining of
> Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> Other bands output claimed normal.
> My own inital checks mostly agreed with the claims except that the
> bands with no power did in fact have some but very low.
> So in short the following was done
> 1. Checked and cleaned band selector switches and alignment.
> 2. 12BY7 substitute.
> 3. 6146 substitute.
> 4. Aligned the TX slugs.
> 5. Bias set.
> 6. A good look around for the obvious.
> The only thing I havent done yet is to neutralise it. For now
> adjustments are smooth and spectrum is clean.
>
> I have managed to get full power on all bands now but still not on
> 18MHz and 21MHz. There is definetly something a miss there.
>
> When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> looks good and same level on all bands. That pretty well proves
> anything before that is OK.
>
> This unit serial number is 103xxxx which I think is a fairly early
> one and that someone has enabled the WARC bands.
>
> My question to the group is if you have any ideas of the cause.
> I am sort of speculating maybe a common capacitor for those 2 bands.
> I need to study the faded circuit a bit more.
> But as beautiful as these rigs are, from a servicing point of view,
> not the easiest thing to replace components.
> I'll appreciate your comments

>
> Regards from Joan VK5KYO
>
>
>
>
>
>
>
>
>
>

> YAHOO! GROUPS LINKS
>
> * Visit your group "TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>" on the web.
>
> * To unsubscribe from this group, send an email to:
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
<mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com?subject=Unsubscri
be>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

>
>---
-
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 267.14.19/231 - Release Date:
16/01/2006
>
>
>

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.

If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

7921. TS520 screen and cathode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 19:18:56 UTC
From: cybercat321
Topic: 7921 Message: 7921

Hi Folks!

I'm a fairly new listmember and a fairly new ham.

Joined the list when I decided to purcahse one of these Kenwoods.
Been lurking and reading since then.

Ended up with a TS-520 - through E-Bay.
Received with some shipping damage and only the fan seeming to work.

Had the +14 vdc and the -6 vdc but no 9 vdc.
After becoming intimate with the 9 vdc supply buss, found the strip
that grounds the shield of the 12BY7 driver tube had been bent and
was touching the nearby 9 vdc connector.
Fixed that up and now have receive and the led's for vfo mode.
Surprised that the A606 transistor, while running HOT, did not blow.
The HFE on it is one thirty something. If it were bad, I was going
to use ECG 129 but measured HFE low 90's.
Better with the good original anyway!

The cathode and screen resistors for the (GE) 6146A's are in sad
shape.
I haven't tested them yet, but I bet the finals are shot based on
the condition of the resistors.
Although I measure 5 ohms cathode to ground (the cathode resistors
are each 10 ohms and in parallel), both are discolored and swollen
with one having a split from end to end.
One screen resistor looks OK but measures about 112 ohms. The other
is totally open (and looks well BBQ'ed).

I checked the service manual for the TS-520 and it shows the cathode
resistors (R3,R4) as 10 ohms 1 watt.
It shows R2 and R6 (screen) on the schematic as 100 ohms.
The parts list states R2 as 100 ohms but R6 as 10k with both listed
as one quarter watt units.
Here's my dilemma...
all 4 mentioned resistors look (to me) to be larger physical size
than the specified wattage.
I'm also wondering about R6.... 10k ???? I can't read the color code
as it's that badly burned.
Sooo... what's correct for these four resistors (the two cathode
resistors and the two screen resistors).
Am I reading something wrong on the schematic or parts list?
Am I confusing these with two other (screen) resistors?
Those I mention are located very near the 6146A sockets.

Any clarification would be appreciated.
thanx in advance...

- Bill H. / va3hwa
(I receive postings in digest mode so probably won't answer right away)

7923. Re: TS520 screen and cathode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 21:59:37 UTC
From: Gordon
Topic: 7921 Message: 7923

Hi Bill,
I show R2 and R6 as 100 ohm 1/2 watt resistors. I also show R3 and
R4 as 10 ohm 1 Watt.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "cybercat321"
<cybertiger@...> wrote:
>
> Hi Folks!
>
> I'm a fairly new listmember and a fairly new ham.
>
> Joined the list when I decided to purcahse one of these Kenwoods.
> Been lurking and reading since then.
>
> Ended up with a TS-520 - through E-Bay.
> Received with some shipping damage and only the fan seeming to work.
>
> Had the +14 vdc and the -6 vdc but no 9 vdc.
> After becoming intimate with the 9 vdc supply buss, found the strip
> that grounds the shield of the 12BY7 driver tube had been bent and
> was touching the nearby 9 vdc connector.
> Fixed that up and now have receive and the led's for vfo mode.
> Surprised that the A606 transistor, while running HOT, did not blow.
> The HFE on it is one thirty something. If it were bad, I was going
> to use ECG 129 but measured HFE low 90's.
> Better with the good original anyway!
>
> The cathode and screen resistors for the (GE) 6146A's are in sad
> shape.
> I haven't tested them yet, but I bet the finals are shot based on
> the condition of the resistors.
> Although I measure 5 ohms cathode to ground (the cathode resistors
> are each 10 ohms and in parallel), both are discolored and swollen
> with one having a split from end to end.
> One screen resistor looks OK but measures about 112 ohms. The other
> is totally open (and looks well BBQ'ed).
>
> I checked the service manual for the TS-520 and it shows the cathode
> resistors (R3,R4) as 10 ohms 1 watt.
> It shows R2 and R6 (screen) on the schematic as 100 ohms.
> The parts list states R2 as 100 ohms but R6 as 10k with both listed
> as one quarter watt units.

> Here's my dilemma...
> all 4 mentioned resistors look (to me) to be larger physical size
> than the specified wattage.
> I'm also wondering about R6.... 10k ???? I can't read the color code
> as it's that badly burned.
> Sooo... what's correct for these four resistors (the two cathode
> resistors and the two screen resistors).
> Am I reading something wrong on the schematic or parts list?
> Am I confusing these with two other (screen) resistors?
> Those I mention are located very near the 6146A sockets.
>
> Any clarification would be appreciated.
> thanx in advance...
>
> - Bill H. / va3hwa
> (I receive postings in digest mode so probably won't answer right
> away)
>

7924. 520 vs 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 22:02:54 UTC
From: Gordon
Topic: 7924 Message: 7924

In researching some help today for a fellow, I noticed something. I have a schematic here for a TS-520 and another for a TS-520S.
I have to ask, Why are the components on the two RF boards labeled differently?

Anyone have an answer?

73,
Gordon

7925. Yahoo

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 23:46:38 UTC
From: Stephen Goldberg
Topic: 7925 Message: 7925

Those ads that Yahoo is inserting into the messages are beginning to annoy
the heck out of me!!!!
Steve W4IMF

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.8.2/357 - Release Date: 6/6/06

7926. Kenwoods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 23:57:59 UTC
From: Gordon
Topic: 7926 Message: 7926

I'm looking to buy a non working 820 or 830 to fill my spare time with.
Please contact me off-list n6wk at n6wk.com
Thanks,
Gordon
N6WK

7927. RE: [TS-520_820_530_830] Group changes Pt I

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-07 23:27:02 UTC
From: Walter Milton
Topic: 7919 Message: 7927

All New Moderators,

CONGRATULATIONS !!!

Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill
Sent: Wednesday, June 07, 2006 1:10 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Group changes Pt I

Well I spent a lot of time typing up an intro to the group for our new moderators and co-owner, only to have Yahoo eat it. I hope Yahoo got indigestion, big time!

Anyway please let me introduce our new moderators.

Jon KD5SFA has been with me from the beginning of the group, and also is helping on at least two other groups, Amateur-repairs and HAMFTP.

Ellen, AF9J is relatively new to the group but not to Yahoo groups; she moderates two other groups, one ham-related and one not.

Gordon, N6WK comes to us from the SKCC (Straight Key Century Club).

I would like to thank Jon, Ellen and Gordon for stepping up to help. I had several other group members offer to help out, please forgive me if I did not acknowledge each on individually as would be proper. THANK YOU.

Last but not least, please welcome Walt, N9WB as our new co-owner. Walt has been around since I first started forming some of the Yahoo ham radio groups and I think he belongs to all the ones I have started (and one or two I have since left!). Walt is a good moderator and a steady contributor.

Everyone that sent me an email offering help mentioned how great this group is and I would have to second those opinions. We have seen very many rigs repaired and a lot of personal growth and development among our members; this is very gratifying and one of the main reasons we do this.

I don't forsee a lot of changes for the group in regards to policies and so forth. We are currently deciding whether to open up the membership list so that members can "see" other members and contact

moderators more easily; we will do it in such a way that your emails will be hidden from bots and spiders.

Again, thanks so much to Jon, Ellen, Gordon and Walt for stepping up to help out; to all those who wrote in but were not selected, and most of all to all of our group members, who make this thing work!

Vy 73 and God bless,

Bill K0ZL

[Non-text portions of this message have been removed]

7929. Re: Group changes Pt I

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 01:32:28 UTC
From: Ellen R
Topic: 7919 Message: 7929

Thanks Walt. :)

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton"
<wmilton@...> wrote:
>
> All New Moderators,
>
> CONGRATULATIONS !!!
>
> Walt KA2NJF
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill
> Sent: Wednesday, June 07, 2006 1:10 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Group changes Pt I
>
>
>
> Well I spent a lot of time typing up an intro to the group for our
> new moderators and co-owner, only to have Yahoo eat it. I hope
Yahoo
> got indigestion, big time!
>
> Anyway please let me introduce our new moderators.
>
> Jon KD5SFA has been with me from the beginning of the group, and
also
> is helping on at least two other groups, Amateur-repairs and
HAMFTP.
>
> Ellen, AF9J is relatively new to the group but not to Yahoo groups;
> she moderates two other groups, one ham-related and one not.
>
> Gordon, N6WK comes to us from the SKCC (Straight Key Century Club).
>
> I would like to thank Jon, Ellen and Gordon for stepping up to
help.
> I had several other group members offer to help out, please forgive
> me if I did not acknowledge each on individually as would be
proper.

> THANK YOU.
>
> Last but not least, please welcome Walt, N9WB as our new co-owner.
> Walt has been around since I first started forming some of the
Yahoo
> ham radio groups and I think he belongs to all the ones I have
> started (and one or two I have since left!). Walt is a good
moderator
> and a steady contributor.
>
> Everyone that sent me an email offering help mentioned how great
this
> group is and I would have to second those opinions. We have seen
very
> many rigs repaired and a lot of personal growth and development
among
> our members; this is very gratifying and one of the main reasons we
> do this.
>
> I don't forsee a lot of changes for the group in regards to
policies
> and so forth. We are currently deciding whether to open up the
> membership list so that members can "see" other members and contact
> moderators more easily; we will do it in such a way that your
emails
> will be hidden from bots and spiders.
>
> Again, thanks so much to Jon, Ellen, Gordon and Walt for stepping
up
> to help out; to all those who wrote in but were not selected, and
> most of all to all of our group members, who make this thing work!
>
> Vy 73 and God bless,
>
> Bill K0ZL
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

7930. Re: 520 vs 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 01:40:29 UTC
From: Ellen R
Topic: 7924 Message: 7930

Gordon,

I googled both the 520 & 520S. There are no real indicators about circuit diofferences between the two. Could it be possible that Kenwood, made circuit changes, when they added 160m capability to the 520S (remember, the 520 didn't do 160)?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> In researching some help today for a fellow, I noticed something. I
> have a schematic here for a TS-520 and another for a TS-520S.
> I have to ask, Why are the components on the two RF boards labeled
> differently?
>
> Anyone have an answer?
>
> 73,
> Gordon
>

7931. Re: 520 vs 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 01:56:39 UTC
From: Gordon
Topic: 7924 Message: 7931

Yes Ellen,
That is Very possible. I have been looking over the two
schematics and they label the Final stage components completely
different between the two rigs. Kind of strange because I have never
run into that before with kenwood. I know the 820 and the 820S are
virtually Identical when it comes to that!

Guess we all learn something new each and every day, which is the way
it should be.
73,
gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Gordon,
>
> I googled both the 520 & 520S. There are no real indicators about
> circuit diofferences between the two. Could it be possible that
> Kenwood, made circuit changes, when they added 160m capability to the
> 520S (remember, the 520 didn't do 160)?
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > In researching some help today for a fellow, I noticed something. I
> > have a schematic here for a TS-520 and another for a TS-520S.
> > I have to ask, Why are the components on the two RF boards labeled
> > differently?
> >
> > Anyone have an answer?
> >
> > 73,
> > Gordon
> >
>

7932. Re: [TS-520_820_530_830] Re: 520 vs 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 02:15:18 UTC
From: bob54quam@cs.com
Topic: 7924 Message: 7932

Gordon,
The 520S was a replacement for the 520 rather than an option such as in the 820/820S, so as such, it has a few circuit differences.
Bob
KI0KM

[Non-text portions of this message have been removed]

7933. Re: 520 vs 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 02:26:51 UTC
From: Gordon
Topic: 7924 Message: 7933

Thank You Bob.

That is exactly what I am discovering. So, I guess I better pick up a
Service manual for Each. hi hi.
73 and Thanks Bob,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> Gordon,
> The 520S was a replacement for the 520 rather than an option such as
in the
> 820/820S, so as such, it has a few circuit differences.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

7934. Have a Spare AF/AVR RL1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 03:36:58 UTC
From: Bill Marvin
Topic: 7934 Message: 7934

Hello Group,

I located my No Rx problem that being the large RL1 on the AF/AVR board on my TS830S.

Can this relay be taken apart (covers -top & bottm) to clean with DeOxit. Or perhaps someone on list has an extra I can buy.

Thanks in Advance

Bill KB9IV

7935. Re: Have a Spare AF/AVR RL1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 03:43:29 UTC
From: Gordon
Topic: 7934 Message: 7935

Bill, Check back a week or so in the Messages. I think that some one here had a simular problem and cleaned the contacts with a 5 dollar bill soaked in De Oxit across the relay Contacts.
I do NOT have a spare Relay for a TS-830 lying around, otherwise, I'd send you one.
I do remember reading in the last 2 weeks about some one using a razor blade to open up the relay on a TS-830 to clean it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Marvin" <wmarvin@...> wrote:
>
> Hello Group,
>
> I located my No Rx problem that being the large RL1 on the AF/AVR
> board on my TS830S.
>
> Can this relay be taken apart (covers -top & bottm) to clean with
> DeOxit. Or perhaps someone on list has an extra I can buy.
>
> Thanks in Advance
>
> Bill KB9IV
>

7936. TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 04:04:43 UTC
From: Ron Hauser
Topic: 7936 Message: 7936

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then
your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are
having. I think I've deleted some of your earlier comments on what was
wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?
>
> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.

>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]
>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power
>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one
>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a
>> copper trace and silver connector held together with a tin rivit. This
>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

7937. Re: [TS-520_820_530_830] TS830S low power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 09:35:40 UTC
From: Joan de vk5kyo
Topic: 6444 Message: 7937

Hi Ron, and also those following this problem

Here is a paste what I sent to Bill some time ago.

Bill the RF choke is normally about 4 Ohms and the faulty one measured 1 Ohm. My guess agrees with your theory in that maybe what inductance was left was resonant to 18 MHz and although the other bands did work, it must have loaded them also because I noticed that ALC was down for 14 MHz and also 21 MHz, but plenty to give full output. As I said, following the replacement, I re-aligned all coils and they all needed adjustment and peaked up better than before. It all makes sense now doesn't it?
Great wisdom in hindsight. I knew I was so close and yet I couldn't see the problem. It was very frustrating and what was worse, I couldn't put the radio down, so needless to say it was very satisfying in the end.
Bill, there is an easy way of checking that RF choke. Lift the top cover and measure the thing. With the radio off. measure Ohms from RF board connector 7, most rear pin to the top of the 470KOhm 1/2 watt resistor lead. That will soon tell you if it is OK.

The above test will measure the Choke. Anything less than 4 Ohms makes the choke suspect.
From memory, measuring the same point to ground will measure the capacitor.
I hope this helps you Ron. Please let the group know your findings.
My theory on why these components may have failed:
L36 - 12BY7 failure, drawing excessive current
C74 - With L36 burned out, it may have failed due to the high RF presented to the bypass capacitor.

May I also add that there are a few older style looking carbon resistors on the 830 RF board, which have a habit of increasing in resistance. I have seen the these increase by 10%, and in some cases nearly 20%. The same problem is found with resistors going high in Swan, Galaxy, Yaesu and no doubt other makes. These radio's go deaf, lack of drive, S meter doesnt work anymore etc. Those restoring older radio's are sure to be aware of this, but are you?

73 from down under, I'm going fishing for a few days
Joan VK5KYO

Hauser, Ron M. wrote:

> Joan and Bill: The question first. When you test C74 and L36 on the RF
> board, how do you get probes onto them? Do you have to remove the
> bandswitch pull the RF board to get to the contacts on the bottom side?
> (ack).

> I have been doing some testing on the bandswitch contacts and they show
> very low resistance so I tend to think that is not my problem. It's not
> proof I know, but I'd really rather find a specific measurable problem
> before I really start tearing the radio apart. I have no drive at all
> on 30m, and only 30m, and I really suspect this same problem on the RF
> board at C74 and L36.
>
> Thanks!
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Joan de vk5kyo
> Sent: Sunday, February 05, 2006 9:48 AM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Hi everybody
>
> For those interested in my original posting of the message, read below.
>
> I am assuming that no other person has seen this problem before, except
> Bill-K5GCW who got in contact with me and explained he has the same
> problem with his 830, even after spending some considerable time
> cleaning the wafer switches.
> Well if you read this Bill, I have found the problem(s). If your lucky,
> it may be the same problem.
>
> A recent posting by another Bill-WB5DX, who cleaned the switches with
> de-oxid?? and has gone backwards in the process, may also be interested
> in reading this, because I think Bill may have disturbed the rivet
> connections of the wafers, or maybe some cleaning material is lodged in
> the switch as it is difficult to get in there, or he may have even bend
> some of the contacts. Its not hard to do.
>
> Anyway
> I did as what most of you would do and that is to remove the RF board,
> number each wafer, desolder each one and clean the switches and while
> it's out, you also solder each wafer contact to the track of the switch.
> This requires a lot of patience and a bit of skill to reassemble and
> realign all the switches before soldering them back on the board.
> I found a number of contacts which were loose. The rivets were not doing
>
> their job anymore. The material must have shrunk a little. This is why
> you have to solder them, if you want the 830 to be reliable.

>
> Now in Australia I heard of a saying, that whenever something gets
> serviced (be it electronics or otherwise), they say that "it has gone in
>
> for a grease and oil change".
> It's a funny expression but when I pulled apart this wafer switch, I
> could relate to that. 2 of the switches had a liberal coating of a
> thick, greasy substance, and the RF board had a coating of what appears
> to be oil. It was a big cleaning job.
> But all the cleaning and soldering made absolutely no scrap of
> difference. Still very little output on 18MHz, and no ALC at all.
> I lost track of the number of times I pulled that RF board out.
> For those that havent worked on these, you can make only limited
> measurements because the way it's mounted, and access to the track side
> of the board while it is switched on is near impossible.
> I knew where the problem area was, except everything appears to be
> checking out. eg component values, connections, switches etc etc.
> Then I found a bypass capacitor C74 which measured 500 Ohms I replaced
> and with excitement put it together. I improved the output on 21 MHz
> considerably, but still not much happening on 18.
> If you study the circuit, you will wonder how this capacitor could have
> an affect on the output. (It all makes sense later on)
> Then tonight, I finally had a breakthrough. I have been so close for
> days but missed it.
> The neighbouring component to C74 is a RF choke L36. This choke has gone
>
> nearly short. It measured 30uH with a large D factor. The original value
>
> is 470uH.
> Needless to say, I was very excited to have found it long last. I put it
>
> all back together and aligned the RF board again and output on 18 MHz
> was finally achieved. Output on 21 MHz was also restored. All in all, a
> good outcome.
> I have learned a lot from this repair. One of them is that the circuit
> from Kenwood has mistakes in it. One that led me on the wrong path for
> some time until I checked the circuit board against circuit.
> You know, I could have sworn it was going to be a band switch problem
> from all the symptoms it gave and I would have never guessed the faulty
> components. When you check everything methodically and logically over
> and over and over again and it still dont work, you know your in a bit
> of trouble.
> So in the end, finding the problem, was it a fluke, lucky maybe? I dont
> know. What I did learn, was to make no assumptions, lots of patience, be
>
> tenacious, dont doubt what you have learned in the past, how the circuit
>
> works and I can go on. I feel great about it and someone more
> experienced may have done it in a tenth of my time, but you can never
> put a price on what you learn. I am sure the owner of the rig will be

> very happy too-No charge.
> I know the story is a bit long winded, but I hope that for some of you
> readers that may develop this fault later on in the rigs life, you will
> save some time repairing it and get it back on air asap.
> 73 from down under
>
> Joan VK5KYO
>
> vk5kyo wrote:
>
> > Hi all
> >
> > Having read all the positive comments in this group, I have decided
> > that it is a must for any amateur to drive a Kenwood 830 if given
> > the opportunity.
> > Well the opportunity has come but something under the bonnet is not
> > well.
> > I have volunteered to repair an 830 of which the owner is
> > complaining of
> > Low power on 1.8MHz,24MHz,28MHz, and No output on 18MHz,21MHz,29MHz
> > Other bands output claimed normal.
> > My own inital checks mostly agreed with the claims except that the
> > bands with no power did in fact have some but very low.
> > So in short the following was done
> > 1. Checked and cleaned band selector switches and alignment.
> > 2. 12BY7 substitute.
> > 3. 6146 substitute.
> > 4. Aligned the TX slugs.
> > 5. Bias set.
> > 6. A good look around for the obvious.
> > The only thing I havent done yet is to neutralise it. For now
> > adjustments are smooth and spectrum is clean.
> >
> > I have managed to get full power on all bands now but still not on
> > 18MHz and 21MHz. There is definetly something a miss there.
> >
> > When I look at TP4 (grid of 12BY7) with a spectrum analyser, it all
> > looks good and same level on all bands. That pretty well proves
> > anything before that is OK.
> >
> > This unit serial number is 103xxxx which I think is a fairly early
> > one and that someone has enabled the WARC bands.
> >
> > My question to the group is if you have any ideas of the cause.
> > I am sort of speculating maybe a common capacitor for those 2 bands.
> > I need to study the faded circuit a bit more.
> > But as beautiful as these rigs are, from a servicing point of view,
> > not the easiest thing to replace components.
> > I'll appreciate your comments
> >

> > Regards from Joan VK5KYO
> >
> >
> >
> >
> >
> >
> >
> >
> >
> ---
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "TS-520_820_530_830
> > <http://groups.yahoo.com/group/TS-520_820_530_830
> <http://groups.yahoo.com/group/TS-520_820_530_830>>" on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe%40yahoogroups.com>
> >
> <mailto:TS-520_820_530_830-unsubscribe@yahoogroups.com
> <mailto:TS-520_820_530_830-unsubscribe%40yahoogroups.com>?subject=Unsubscri
> be>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/
> <http://docs.yahoo.com/info/terms/>>.
> >
> >
> >
> ---
> >
> >---
> -
> >
> >No virus found in this incoming message.
> >Checked by AVG Free Edition.
> >Version: 7.1.375 / Virus Database: 267.14.19/231 - Release Date:
> 16/01/2006
> >
> >
> >
>
> Yahoo! Groups Links
>
> This transmission is intended for the sole use of the individual and
> entity to whom it is addressed. Privileged and confidential
> information may be contained in this message. You are hereby notified
> that any dissemination, distribution, or duplication of this

> transmission by someone other then the intended addressee or its
> designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that do
> not relate to the official business of my organization shall be
> understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify this
> company immediately by reply to this transmission.
>
>
>
>---
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.394 / Virus Database: 268.8.2/357 - Release Date: 6/06/2006
>
>

[Non-text portions of this message have been removed]

7938. Re: [TS-520_820_530_830] Re: Have a Spare AF/AVR RL1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 12:46:34 UTC
From: Walt Breining
Topic: 7934 Message: 7938

A ten dollar bill will work twice as well.
Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 07, 2006 10:43 PM
Subject: [TS-520_820_530_830] Re: Have a Spare AF/AVR RL1

Bill, Check back a week or so in the Messages. I think that some one
here had a simular problem and cleaned the contacts with a 5 dollar
bill soaked in De Oxit across the relay Contacts.
I do NOT have a spare Relay for a TS-830 lying around, otherwise, I'd
send you one.
I do remember reading in the last 2 weeks about some one using a razor
blade to open up the relay on a TS-830 to clean it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Marvin" <wmarvin@...>
wrote:
>
> Hello Group,
>
> I located my No Rx problem that being the large RL1 on the AF/AVR
> board on my TS830S.
>
> Can this relay be taken apart (covers -top & bottm) to clean with
> DeOxit. Or perhaps someone on list has an extra I can buy.
>
> Thanks in Advance
>
> Bill KB9IV
>

[Non-text portions of this message have been removed]

7939. Welcome New Moderators

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 11:50:46 UTC
From: Ken Gunton
Topic: 7939 Message: 7939

Does this mean we send our checks
to them each week? hi hi

Seriously, welcome, moderators. We
really appreciate all your work and
sharing of knowledge and techniques,
even those of us who are silent lurkers.

73s,
Ken W8ASA

7940. Re: Have a Spare AF/AVR RL1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 12:22:31 UTC
From: digs4ruff
Topic: 7934 Message: 7940

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
>
> A ten dollar bill will work twice as well.
> Walt N9WB

Walt
Can you use both sides of the ten dollar bill and just think of it as
a double faced five dollar bill.
regards
Barry

7941. Re: TS520 screen and cathode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-08 17:31:15 UTC
From: cybercat321
Topic: 7921 Message: 7941

Thanx Gordon!
I thought that was what they should be.
I guess there's a mistake or two in the parts list descriptions.
BTW...
IIRC, I got my manuals from BAMA (thanx BAMA!).
The cathode resistors that are currently in there seem MUCH larger
than 1 W, of course, a previous owner may have changed them.
Either that or it's been so long since I worked with carbon comp
resistors that I'm rusty on recognizing the physical sizes, HI-HI!
- Bill H. / va3hwa

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Bill,
> I show R2 and R6 as 100 ohm 1/2 watt resistors. I also show R3 and
> R4 as 10 ohm 1 Watt.
>
> 73,
> Gordon

7942. Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 12:22:34 UTC
From: cdf00001
Topic: 241 Message: 7942

Good morning to all.
I was wondering if anyone could tell me of a sorce for the black plastic pins that hold the side cover on a TS-520S. Mine have broken and I would very much like to replace them. I would be very greatfull of any help in finding these.
Thank You in advance,
Charlie W4CDF

7943. Re: [TS-520_820_530_830] Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 12:26:16 UTC
From: hamradioguy
Topic: 241 Message: 7943

I could use a couple as well (-:

On Sat, 10 Jun 2006 12:22:34 -0000, "cdf00001" <dfeigley1@...> wrote:
> Good morning to all.
> I was wondering if anyone could tell me of a sorce for the black
> plastic pins that hold the side cover on a TS-520S. Mine have broken
> and I would very much like to replace them. I would be very greatfull
> of any help in finding these.
> Thank You in advance,
> Charlie W4CDF
>
>
>
>
>

7944. Re: [TS-520_820_530_830] Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 15:00:02 UTC
From: bob54quam@cs.com
Topic: 241 Message: 7944

Apparently there are a number of these broken pins out there!
I could use one too.
Bob
KI0KM

[Non-text portions of this message have been removed]

7945. Re: [TS-520_820_530_830] Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 17:18:21 UTC
From: Art
Topic: 241 Message: 7945

Bob, What pins are you talking about?

73
Art
WB4MNK
----- Original Message -----
From: bob54quam@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 10, 2006 11:00 AM
Subject: Re: [TS-520_820_530_830] Wanted

Apparently there are a number of these broken pins out there!
I could use one too.
Bob
KI0KM

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.8.3/360 - Release Date: 6/9/2006

[Non-text portions of this message have been removed]

7946. 520-820 parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 17:31:54 UTC
From: Paul
Topic: 7946 Message: 7946

I have new
1-ts-520-820 relay org part#s-514017-15
1-new toggle switch-heater,xmt switch
2-compleat nylon side cover holders-pins and round groumets
2-nylon side cover pins

Iam looking to trade for amateur license plates for my was collection
for our school clubs wall.73

DE-K8PG_Paul CW LIVES

7947. Re: [TS-520_820_530_830] Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 18:12:13 UTC
From: bob54quam@cs.com
Topic: 241 Message: 7947

Hi Art,
The pins are for the side cover on a 520S (vox, bias, etc)
Bob
KI0KM

[Non-text portions of this message have been removed]

7948. Re: [TS-520_820_530_830] 520-820 parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 18:29:40 UTC
From: Bill Richarz
Topic: 7946 Message: 7948

I'd like to have the relay Paul.
I'll send you my old plate WA4VAF
State of NC for it.

73 de Bill, N4DH

--- Paul <k8pg@...> wrote:

> I have new
> 1-ts-520-820 relay org part#s-514017-15
> 1-new toggle switch-heater,xmt switch
> 2-compleat nylon side cover holders-pins and round
> groumets
> 2-nylon side cover pins
>
> Iam looking to trade for amateur license plates
> for my was collection
> for our school clubs wall.73
>
> DE-K8PG_Paul CW LIVES
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7949. 520-820 relay-N4DH-Bill

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-10 20:32:01 UTC
From: Paul
Topic: 7949 Message: 7949

N4DH Bill:
sounds like a deal to me Bill,its yours Ill send it out to your QRZ address next wk,and you can send the license plate same way ok?
73-DE-K8PG-PAUL CW LIVES

7950. Re: [TS-520_820_530_830] Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 03:55:45 UTC
From: Art
Topic: 241 Message: 7950

Hi Bob, I could not figure out what the pins were for. Thanks for the information.

73
Art
WB4MNK
----- Original Message -----
From: bob54quam@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 10, 2006 2:12 PM
Subject: Re: [TS-520_820_530_830] Wanted

Hi Art,
The pins are for the side cover on a 520S (vox, bias, etc)
Bob
KI0KM

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.8.3/360 - Release Date: 6/9/2006

[Non-text portions of this message have been removed]

7951. TV-506 connecting cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 05:59:07 UTC
From: alexsen56
Topic: 7951 Message: 7951

Hi everyone,

I have a TV-506 transverter which I want to connect to my TS-520S.
There is a cable connecting the two rigs together from the "X Verter"
jack on the TS-520S to the "6m Control" jack on the TV-506 which I do
not possess.
However, I have the two multipin plugs to make the cable myself.
Since one of the pins carries 160 volts, my question to the group is
if someone knows the pin diagram for the cable.
I wouldn't like to send 160 volts to the wrong pin!!
I've checked both operating manuals but cannot find the connections
anywhere.

Any help will be gratly appreciated.

regards

aLEx
LU9BAW

7952. Re: [TS-520_820_530_830] TV-506 connecting cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 06:21:45 UTC
From: agoodridge
Topic: 7951 Message: 7952

G'day Alex

I have the TV502 and cable, I will check the cable tomorrow for you and post the pinouts (if I can get them from the book)

Regards
Anthony
VK2
----- Original Message -----
From: alexsen56
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 11, 2006 3:59 PM
Subject: [TS-520_820_530_830] TV-506 connecting cable

Hi everyone,

I have a TV-506 transverter which I want to connect to my TS-520S.
There is a cable connecting the two rigs together from the "X Verter"
jack on the TS-520S to the "6m Control" jack on the TV-506 which I do
not possess.
However, I have the two multipin plugs to make the cable myself.
Since one of the pins carries 160 volts, my question to the group is
if someone knows the pin diagram for the cable.
I wouldn't like to send 160 volts to the wrong pin!!
I've checked both operating manuals but cannot find the connections
anywhere.

Any help will be gratly appreciated.

regards

aLEx
LU9BAW

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.8.3/360 - Release Date: 9/06/2006

[Non-text portions of this message have been removed]

7953. Re: [TS-520_820_530_830] Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 08:59:07 UTC
From: Walt Breining
Topic: 241 Message: 7953

This is a long shot, but you might try auto parts stores. They have an area where they carry specialized fasteners like these.

Vy 73, Walt N9WB

----- Original Message -----
From: cdf00001
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 10, 2006 7:22 AM
Subject: [TS-520_820_530_830] Wanted

Good morning to all.
I was wondering if anyone could tell me of a sorce for the black
plastic pins that hold the side cover on a TS-520S. Mine have broken
and I would very much like to replace them. I would be very greatfull
of any help in finding these.
Thank You in advance,
Charlie W4CDF

[Non-text portions of this message have been removed]

7954. re: Parts needed (side cover Grommet and plunger)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 15:15:11 UTC
From: james27613
Topic: 7951 Message: 7954

hi,

please check the database section of this forum,
the Parts file has the part numbers you need

it is called the plunger and grommet, you need two each.

73 james ke4drn

7955. Hi and TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 17:25:02 UTC
From: Tim
Topic: 7955 Message: 7955

Would some one please give me the procedure to follow after new driver 12BY7 tube installed in TS530SP. Neutralization etc. TNX. Been a long time since I did this an want to get this pupy back on the air. My rig is 25+ yrs old and I love it

TNX
73's
Tim

7956. Re: [TS-520_820_530_830] TV-506 connecting cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 19:07:39 UTC
From: gjcollins@cox.net
Topic: 7951 Message: 7956

I have the manuals for the TV-506 and TV-502, but I use them with a TS-820S. I will post the pins in the next day or so, as soon as I can go through the schematics.

George, KC1V

----- Original Message -----
From: alexsen56
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 11, 2006 1:59 AM
Subject: [TS-520_820_530_830] TV-506 connecting cable

Hi everyone,

I have a TV-506 transverter which I want to connect to my TS-520S.
There is a cable connecting the two rigs together from the "X Verter"
jack on the TS-520S to the "6m Control" jack on the TV-506 which I do
not possess.
However, I have the two multipin plugs to make the cable myself.
Since one of the pins carries 160 volts, my question to the group is
if someone knows the pin diagram for the cable.
I wouldn't like to send 160 volts to the wrong pin!!
I've checked both operating manuals but cannot find the connections
anywhere.

Any help will be gratly appreciated.

regards

aLEx
LU9BAW

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.8.3/361 - Release Date: 6/11/2006

[Non-text portions of this message have been removed]

7957. Re: [TS-520_820_530_830] Hi and TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 19:49:05 UTC
From: bob54quam@cs.com
Topic: 7955 Message: 7957

Hi Tim,
I don't think there is anything more to do than replace the 12BY7. I have replaced 2 of them in my 520S and it didn't require anything else.
Your 530SP was probably built 1983-86. It's a great rig.
Bob
KI0KM

[Non-text portions of this message have been removed]

7958. New Member w/question on TS-520S inspection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 20:19:56 UTC
From: leonhutto
Topic: 7958 Message: 7958

Hi! I just joined the group. I'm currently studying for my first ham license (Tech w/code), and I've bought a TS-520S for my first rig. It should arrive in a week (bought from a ham on eBay.)

Here's my question: What should I do to inspect the rig right out of the box? I'm somewhat familiar with generic tuning procedures from watching my brother tune his Yaesu FTDX560 years ago. I want to make sure everything is working correctly. I have a mike, a CW key, SWR/power meter, a dummy load, and a dipole antenna (I won't be transmitting over the air until I get my ticket.) I also have a VOM.

Does anyone have a "checklist" of what to do the first time I power it up?

Thanks for any advice!

73
Leon

7959. Re: [TS-520_820_530_830] New Member w/question on TS-520S inspection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-11 20:40:09 UTC
From: Pierre Wells
Topic: 7958 Message: 7959

Leon
Good luck with the exam. Here are a few pointers for the TS 520:
1. Have the manual on hand for tuning purposes!! If you don't have a hard copy then there are a few places on the net where you can download the owners manual. Some will show up asking for $...skip these, then search a little more and you will find repositories that have a free access.

2. Never , NEVER go into transmit or tune transmit mode without a dummy load or correct antenna connected! You could hurt the rig a lot!! When ready, consult the manual and it will give you detailed instructions on how to 'load' her up.

3.You can amuse youself with any length of wire as an antenna for receiving purposes. Just connect the 'antenna' to the center connector of the special coaxial plug at the back of the rig. Twiddle the 'DRIVE' knob to peak the receiver's sensivity as you change bands and frequency.
73
Peter VE2FAR

leonhutto <leonhutto@...> wrote: Hi! I just joined the group. I'm currently studying for my first ham
license (Tech w/code), and I've bought a TS-520S for my first rig. It
should arrive in a week (bought from a ham on eBay.)

Here's my question: What should I do to inspect the rig right out of
the box? I'm somewhat familiar with generic tuning procedures from
watching my brother tune his Yaesu FTDX560 years ago. I want to make
sure everything is working correctly. I have a mike, a CW key,
SWR/power meter, a dummy load, and a dipole antenna (I won't be
transmitting over the air until I get my ticket.) I also have a VOM.

Does anyone have a "checklist" of what to do the first time I power it
up?

Thanks for any advice!

73
Leon

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

7960. Re: [TS-520_820_530_830] 520-820 relay-N4DH-Bill

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 00:01:27 UTC
From: Bill Richarz
Topic: 7949 Message: 7960

Good deal Paul,

I'll try and mail the plate tomorrow.

tnx much,
73 de N4DH

--- Paul <k8pg@...> wrote:

> N4DH Bill:
> sounds like a deal to me Bill,its yours Ill send
> it out to your QRZ
> address next wk,and you can send the license
> plate same way ok?
> 73-DE-K8PG-PAUL CW LIVES
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

7961. Re: [TS-520_820_530_830] 520 side cover latches available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 00:29:45 UTC
From: Pierre Wells
Topic: 7949 Message: 7961

Hi gang

<< Foxtango.org >> has the small plastic latches used on the 520 and some other older Kenwoods. Go to the '' Visit the Candy store '' page at << http://foxtango.org/FT%20Candy%20Store/CANDY%20STORE.htm >> scroll down to the '' Radio case latches '' and you will find the necessary info.
I asked the contemporary Foxtango founder, W4CLM, if Kenwood owners would be 'allowed' (Hi hi) to purchase from a Yaesu group.
' Of course ' was the answer!
73
Peter VE2FAR

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

7962. Re: [TS-520_820_530_830] New Member w/question on TS-520S inspection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 02:15:46 UTC
From: Bill Leahy
Topic: 7958 Message: 7962

Hi Leon,

In addition to the excellent suggestions, take the lid off and then the cover over the final tubes; check that they are firmly seated and did not get broken. Also check that the driver tube is in it's socket OK.

Check that no packing material made it into places it should not be.

Put the final cover back on; check the back of the rig; see that the SG switch is ON. If it's off, it will keep your rig from transmitting.

73,

Bill K0ZL

On 6/11/06, leonhutto <leonhutto@...> wrote:
>
> Hi! I just joined the group. I'm currently studying for my first ham
> license (Tech w/code), and I've bought a TS-520S for my first rig. It
> should arrive in a week (bought from a ham on eBay.)
>
> Here's my question: What should I do to inspect the rig right out of
> the box? I'm somewhat familiar with generic tuning procedures from
> watching my brother tune his Yaesu FTDX560 years ago. I want to make
> sure everything is working correctly. I have a mike, a CW key,
> SWR/power meter, a dummy load, and a dipole antenna (I won't be
> transmitting over the air until I get my ticket.) I also have a VOM.
>
> Does anyone have a "checklist" of what to do the first time I power it
> up?
>
> Thanks for any advice!
>
> 73
> Leon
>
>
>

[Non-text portions of this message have been removed]

7963. Re: [TS-520_820_530_830] Hi and TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 02:17:18 UTC
From: Bill Leahy
Topic: 7955 Message: 7963

Just check that you can get ALC in TUNE mode on 10 meters; that is the most critical band for driver plate and grid tuning. If you can get 50 percent or more deflection on the meter with CAR all the way up, peaking the drive control, you are fine.

bill

On 6/11/06, Tim <kd2oe@...> wrote:
>
> Would some one please give me the procedure to follow after new driver
> 12BY7 tube installed in TS530SP. Neutralization etc. TNX. Been a
> long time since I did this an want to get this pupy back on the air.
> My rig is 25+ yrs old and I love it
>
> TNX
> 73's
> Tim
>
>
>

[Non-text portions of this message have been removed]

7964. Re: Hi and TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 02:57:52 UTC
From: Ellen R
Topic: 7955 Message: 7964

Hi Tim,

Like Bob said, you usually don't have to neutralize the 12BY7A driver tube. The only time you have to neutralize a new one, is if things are still screwed up after neutralizng the finals.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Tim" <kd2oe@...> wrote:
>
> Would some one please give me the procedure to follow after new driver
> 12BY7 tube installed in TS530SP. Neutralization etc. TNX. Been a
> long time since I did this an want to get this pupy back on the air.
> My rig is 25+ yrs old and I love it
>
> TNX
> 73's
> Tim
>

7965. Fw: [TS-520_820_530_830] TV-506 connecting cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 04:17:18 UTC
From: Alex Sentana
Topic: 7965 Message: 7965

Hi George, thanks in advance.

regards
aLEx
LU9BAW

----- Original Message -----
From: gjcollins@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, June 12, 2006 5:07 AM
Subject: Re: [TS-520_820_530_830] TV-506 connecting cable

.

[Non-text portions of this message have been removed]

7966. TS 530 neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 09:53:00 UTC
From: Walt Breining
Topic: 7966 Message: 7966

Changing the 12BY7 should not change the neutralization. It is the finals 6146 or S2001 that are neutralized so if the neutralization was already OK no change is necessary.

However, if it has been many years since the neutralization was checked, the final tubes might have changed and thus the neutralization may be off.

Here is how to check it.
Tune up the rig in CW by the usual manner into a dummy load or an antenna with a very flat SWR on 28.5 MHz. (must be on or near 28.5 MHz.)

With the carrier control fully up. Be sure that the Plate and Tune are peaked for maximum output.

With the meter reading IC, observe the dip of the IC reading and the output watts at the same time as you slightly move the Plate control back and forth through the dip. What you want is for the output watts to peak exactly at the same point that the IC dips.

Do not leave the rig keyed down for very long at a time. (15 Seconds max) UN-key, let it cool and continue. The reaction on each side of the dip should be fairly symmetrical. If so, your neutralization is fine. If not, tinker with the neutralization capacitor making slight changes at a time until you reach this condition on 28.5 MHz.

The neutralization capacitor has high voltage on it even when the transmitter is UN-keyed. It is best if you can use a plastic tuning tool for the neutralization adjustment. It will have to be removed before observing the dip. Sometimes I find that the capacitor is too stiff for a plastic tool. In this case I place two pieces of shrink tubing on top of each other (double layer) over the shaft of a small metal screwdriver with a PLASTIC handle. Do not use a wood handle. The shrink tubing is to insulate the high voltage from shorting out if the shaft touches the edges of the hole. The plastic handle is what protects you so be sure it is a good insulator!

This is a process of keying the rig, checking the dip/output, UN-keying the rig and then nudging the capacitor slightly one way or another. Then the rig is keyed up again and the results (dip/output) is checked for better or worse.

The cover must be on the final cage to do this. Otherwise neutralization will drastically change when the cage is installed.

Alternate method.
If you have a scope that is good at 28.5 MHz and a dummy load. Connect the rig to the dummy load and connect the scope to read the signal going to the dummy load.
After tuning up the rig, place the SG switch to the OFF position. This kills the rig output by biasing the screen grids negative.

Follow the same procedure as above but instead of observing the meters, adjust the neutralization capacitor for the lowest signal observed leaking through the tubes on the scope. The scope sensitivity will have to be increased during this process.

I usually check for neutralization using the (IC dip/output watts) method. If it looks pretty close, I don't mess with it.

It is normal for the IC dip/output peak to sometimes be off on other frequencies. That is why 28.5 is specified.

Note that for the TS 820 21.350 MHz is specified for this procedure.

Vy 73, Walt N9WB

----- Original Message -----
From: Tim
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 11, 2006 12:25 PM
Subject: [TS-520_820_530_830] Hi and TNX

Would some one please give me the procedure to follow after new driver
12BY7 tube installed in TS530SP. Neutralization etc. TNX. Been a
long time since I did this an want to get this pupy back on the air.
My rig is 25+ yrs old and I love it

TNX
73's
Tim

[Non-text portions of this message have been removed]

7967. New Member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 23:29:17 UTC
From: K4MT
Topic: 133 Message: 7967

Hi all:

I have just purchased a TS-520S and decided to join your group. I got a great bargain on the 520 at a local hamfest as it had issues with noise pops in the audio. To make a long story short the VOX board relay control transister Q8 was leaky and the radio was going from RX to TX at a high random rate when the radio warmed up.

I just finished peaking radio and put it on the air for the first time today and got the normal 520 report. Great sounding transmit audio! Radio puts out over 100 watts and finals seem fine. What a find!

Looking forward to watching this group for tips as I restore this radio.

7968. 9 pin vfo connectors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 02:50:39 UTC
From: KE5EOT
Topic: 7968 Message: 7968

Does anyone have a couple of the 9 pin VFO connectors for the 520 that they'd like to sell?

--
Randy (KE5EOT) -.- . ... --- -

7969. Re: New Member w/question on TS-520S inspection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-12 15:47:45 UTC
From: Bill Henderson
Topic: 7958 Message: 7969

I went through similar recently after E-Bay purchase of a TS-520.
I'm still working on restoration, slowly, I don't get much time these days.
You might want to "eyeball" (good visual inspection) the screen and
cathode resistors for the finals. These seem to be common culprits in
a lot of failures.
If they look heated, discolored, swollen or cracked replace them.
Measure the actual values if in doubt.

HV WARNING!!!
BEFORE DOING ANYTHING IN OR AROUND THE FINALS, DISCHARGE THE HIGH
VOLTAGE SUPPLY ACCESSABLE AT OR NEAR THE PLATE CAPS!!!

Check the knobs for smooth operation and no mechanical "scraping" sounds.

You could probably get a licenced amateur to give it an "on air" test...
check with a local club for interest.

Gives you something to do while waiting for your licence!

- Bill H. / va3hwa
.

7970. Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 13:40:22 UTC
From: Larry N. Fraysier
Topic: 7968 Message: 7970

I am wanting to purchase a set of tubes: 6146s and a driver....looking at what two vendors have, one vendor says that the GE 6146-W are used in the Kenwoods and directly replace the 6146B, the other vendor says that they are not recommended for Kenwood tranceivers and not interchangable with the 6146Bs. I am somewhat confused about this and need your input.

Thanks,
Larry - N4HIT

7971. Re: [TS-520_820_530_830] Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 13:58:51 UTC
From: Tim Harrington
Topic: 7968 Message: 7971

Larry
Here is a helpful (I think) link.
http://home.comcast.net/~zcomco/The_6146_Family_of_Tubes_1.htm

73's
Tim

"Larry N. Fraysier" <fraysier@...> wrote:
I am wanting to purchase a set of tubes: 6146s and a driver....looking
at what two vendors have, one vendor says that the GE 6146-W are used in
the Kenwoods and directly replace the 6146B, the other vendor says that
they are not recommended for Kenwood tranceivers and not interchangable
with the 6146Bs. I am somewhat confused about this and need your input.

Thanks,
Larry - N4HIT

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

7972. Re: [TS-520_820_530_830] Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 15:33:11 UTC
From: Bill Scurlock
Topic: 7968 Message: 7972

Larry,

In addition to the good reference that Tim gave you, I would avoid any tubes made in China because many Kenwood users have reported problems trying to use them.

73, Bill, K5GCW
----- Original Message -----
From: Larry N. Fraysier
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 13, 2006 8:40 AM
Subject: [TS-520_820_530_830] Tube question?

I am wanting to purchase a set of tubes: 6146s and a driver....looking
at what two vendors have, one vendor says that the GE 6146-W are used in
the Kenwoods and directly replace the 6146B, the other vendor says that
they are not recommended for Kenwood tranceivers and not interchangable
with the 6146Bs. I am somewhat confused about this and need your input.

Thanks,
Larry - N4HIT

[Non-text portions of this message have been removed]

7973. Re: [TS-520_820_530_830] New Member w/question on TS-520S inspection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 16:19:10 UTC
From: Randy Morton
Topic: 7958 Message: 7973

Field Day is Saturday, June 24th. Find a club in your area that's participating and take your new rig (mike, key, swr meter, and dummy load) with you. The hams there will have the exprience you need to check it out. They will also have antennas that can be used to check your new rig on the air. Once it's on the air, one of the hams can make a contact and let you get on the air as third party traffic. Once you get your Tech with Code, you can get on the air on 10 meters and start making contacts on your own.

Randy (KE5EOT)

On 6/11/06, leonhutto <leonhutto@...> wrote:
>
> Hi! I just joined the group. I'm currently studying for my first ham
> license (Tech w/code), and I've bought a TS-520S for my first rig. It
> should arrive in a week (bought from a ham on eBay.)
>
> Here's my question: What should I do to inspect the rig right out of
> the box? I'm somewhat familiar with generic tuning procedures from
> watching my brother tune his Yaesu FTDX560 years ago. I want to make
> sure everything is working correctly. I have a mike, a CW key,
> SWR/power meter, a dummy load, and a dipole antenna (I won't be
> transmitting over the air until I get my ticket.) I also have a VOM.
>
> Does anyone have a "checklist" of what to do the first time I power it
> up?
>
> Thanks for any advice!
>
> 73
> Leon
>
>
>

[Non-text portions of this message have been removed]

7974. Re: Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 17:23:33 UTC
From: w9dz
Topic: 7968 Message: 7974

This same article also resides in the group's file section.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, Tim Harrington <kd2oe@...>
wrote:
>
> Larry
> Here is a helpful (I think) link.
> http://home.comcast.net/~zcomco/The_6146_Family_of_Tubes_1.htm
>
> 73's
> Tim
>
> "Larry N. Fraysier" <fraysier@...> wrote:
> I am wanting to purchase a set of tubes: 6146s and a
driver....looking
> at what two vendors have, one vendor says that the GE 6146-W are
used in
> the Kenwoods and directly replace the 6146B, the other vendor says
that
> they are not recommended for Kenwood tranceivers and not
interchangable
> with the 6146Bs. I am somewhat confused about this and need your
input.
>
> Thanks,
> Larry - N4HIT
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

7975. Re: [TS-520_820_530_830] Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 19:04:56 UTC
From: Walt Breining
Topic: 7968 Message: 7975

Larry:
This is very confusing because early 6146 W tubes were different in construction from 6146 B tubes then later 6146 W tubes were the same as 6146B until the Chinese tubes came out. I talked to RF parts at Dayton about this.
They have Phillips/ECG 6146 W tubes that were the last production run made in the USA and they say are the same as 6146B. They showed me the internal construction. The hanger was heavier and there were extra clamps holding the top mica piece on.

They sell these in matched pairs for $59.90/pair and guarantee them. I have not had personal experience with them other than looking at them at Dayton, but if I were purchasing new finals for a Kenwood, these are what I believe that I would purchase.

They are listed in the transmitting tube area of the site.

http://www.rfparts.com/
http://www.rfparts.com/tubetran.html

Vy 73, Walt N9WB

----- Original Message -----
From: Larry N. Fraysier
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 13, 2006 8:40 AM
Subject: [TS-520_820_530_830] Tube question?

I am wanting to purchase a set of tubes: 6146s and a driver....looking at what two vendors have, one vendor says that the GE 6146-W are used in the Kenwoods and directly replace the 6146B, the other vendor says that they are not recommended for Kenwood tranceivers and not interchangable with the 6146Bs. I am somewhat confused about this and need your input.

Thanks,
Larry - N4HIT

[Non-text portions of this message have been removed]

7976. Re: Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 18:33:06 UTC
From: Ellen R
Topic: 7968 Message: 7976

Hi Larry and Walt,

I can report on these tubes. The Phillips/ECG 6146 W tubes from RF Parts, are the one I put into my baby. I love 'em. They work great. I get a full 100W out of them, and they neutralized out very well. Considering that I got soaked for $57 for a set of garbage Chinese tubes at AES, the $60 I spent on the Phillips/SYlvania tubes was worth it. Besides, if I remember right, they're milspec.

73,
Ellen - AF9J
A TS-820 owner

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Larry:
> This is very confusing because early 6146 W tubes were different in construction from 6146 B tubes then later 6146 W tubes were the same as 6146B until the Chinese tubes came out. I talked to RF parts at Dayton about this.
> They have Phillips/ECG 6146 W tubes that were the last production run made in the USA and they say are the same as 6146B. They showed me the internal construction. The hanger was heavier and there were extra clamps holding the top mica piece on.
>
> They sell these in matched pairs for $59.90/pair and guarantee them. I have not had personal experience with them other than looking at them at Dayton, but if I were purchasing new finals for a Kenwood, these are what I believe that I would purchase.
>
> They are listed in the transmitting tube area of the site.
>
> http://www.rfparts.com/
> http://www.rfparts.com/tubetran.html
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: Larry N. Fraysier
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, June 13, 2006 8:40 AM
> Subject: [TS-520_820_530_830] Tube question?
>
>

> I am wanting to purchase a set of tubes: 6146s and a
driver....looking
> at what two vendors have, one vendor says that the GE 6146-W are
used in
> the Kenwoods and directly replace the 6146B, the other vendor
says that
> they are not recommended for Kenwood tranceivers and not
interchangable
> with the 6146Bs. I am somewhat confused about this and need your
input.
>
> Thanks,
> Larry - N4HIT
>
>
>
>
> [Non-text portions of this message have been removed]
>

7977. Re: Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 18:26:23 UTC
From: Ellen R
Topic: 7968 Message: 7977

Hi Larry,

I'll try this again. I posted a reply this morning, and it looks like it got lost in the system. I hope this gives you an idea, of what options you have available.

The best finals to use for your Kenwood TS-520S, 820S, 530S, or 830S, are the Japanese, S2001 tubes. Originally your Kenwood hybrid came with these finals in it. If they are taken good care of they can easily last for 20 or more years. Unfortunately they are almost impossible to find nowadays. Kenwoods with these tubes can put out as much as 130W.

If you can't find a set of S2001s, the next best bet is a set of 6146Bs. None of these have been made since the mid 80s, so you will have to settle for a set of used ones in good condition, or New Old Stock (NOS). Unfortunatley, 6146Bs are starting to get hard to find (when I checked with RF Parts back in March, they had no more 6146Bs in stock). Nebraska Surplus still has some left. Be prepared to pay a pretty penny for them. Kenwoods with these tubes can put out about 100-115W.

If you can't find a set of 6146Bs, or the price for them is more than you're willing to pay, you can also use 6146Ws. Unlike what you have been told, 6146Ws are useable in Kenwood hybrids. Many of this group's members use them (including me - in my TS-820). BUT, there is one proviso - AVOID THE CHINESE TUBES LIKE THE PLAGUE! I bought a set of 61246Ws from a major ham radio outlet (they were lableled as Penta tubes), only to find out when I got home, that they were Chinese tubes. Since I had already spent the money on them, and figured, "nothing ventured, nothing gained," I put them in my TS-820. I powered up my rig, and the Chinese tubes flashed over. As a result, I had to replace burned out resistors on both the Finals and High Voltage boards. Not Cool! Whatever you do, do not buy the chinese 6146Ws. They have a dirty vaccuum in them, that makes them prone to flashing and arcing at the voltages Kenwood rigs run at. Either use a good set of used 6146Ws, or go through a place like RF Parts, or Nebraska Surplus, and get a set of NOS, European, or American 6146Ws. RF Parts will tell you not to use GE 6146Ws in your Kenwood. A fair amount of this group's members would beg to differ, since they haven't had any problems with the GE 6146Ws. I myself, bought a set of milspec Phillips/Sylvania 6146Ws for a little extra tube life (and becuase they are a very close approximation of the 6146B), but it isn't necessary to do so. Kenwoods with 6146W tubes can put out about 100-115W.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Larry N. Fraysier"
<fraysier@...> wrote:
>
> I am wanting to purchase a set of tubes: 6146s and a
driver....looking
> at what two vendors have, one vendor says that the GE 6146-W are
used in
> the Kenwoods and directly replace the 6146B, the other vendor says
that
> they are not recommended for Kenwood tranceivers and not
interchangable
> with the 6146Bs. I am somewhat confused about this and need your
input.
>
> Thanks,
> Larry - N4HIT
>

7978. Re: [TS-520_820_530_830] Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-13 19:57:27 UTC
From: Larry N. Fraysier
Topic: 7968 Message: 7978

Thanks to everyone for the info about the tubes...looks like it will be the $59.90/pair, but I will admit that I was tempted by the $39.00/pair...hi..hi. This is a valuable group. Now for another question. I have a 520s that belongs to a friend that has an intermittent problem. Sometimes when tuning, adjusting the drive control causes the rf indication to drop to zero and won't come back. When that happens the audio also drops to a low level. The audio level comes back after turning the rig off and waiting for a few moments before turning back on. Other times the rig loads up normally with 100 watts out. I need some help with this.

Thanks,
Larry - N4HIT

7979. Re: [TS-520_820_530_830] Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-14 12:17:38 UTC
From: Bill Leahy
Topic: 7968 Message: 7979

Larry, you can use either. I use the W's unless customer specifies B's; a NOS set of B's is about twice as expensive.

I have seen good tube life from the W's, even with lower plate dis. ratings. They seem to neutralize just fine, but all rigs are different.

73!

Bill K0ZL

On 6/13/06, Larry N. Fraysier <fraysier@...> wrote:
>
> .
>
>
>

[Non-text portions of this message have been removed]

7980. Re: [TS-520_820_530_830] New Member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-14 12:32:59 UTC
From: Bill Leahy
Topic: 133 Message: 7980

What's the name there? I am too lazy to check QRZ! hi...

Congrats on the fix. You should consider setting up a shop if you haven't already. There are not that many guys fixing this old stuff and it's expensive to ship to repair shops out of town.

73!

Bill K0ZL

On 6/12/06, K4MT <k4mt@...> wrote:
>
> Hi all:
>
> I have just purchased a TS-520S and decided to join your group. I got
> a great bargain on the 520 at a local hamfest as it had issues with
> noise pops in the audio. To make a long story short the VOX board
> relay control transister Q8 was leaky and the radio was going from RX
> to TX at a high random rate when the radio warmed up.
>
> I just finished peaking radio and put it on the air for the first time
> today and got the normal 520 report. Great sounding transmit audio!
> Radio puts out over 100 watts and finals seem fine. What a find!
>
> Looking forward to watching this group for tips as I restore this
> radio.
>
>
>

[Non-text portions of this message have been removed]

7981. Re: New Member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-15 00:21:35 UTC
From: K4MT
Topic: 133 Message: 7981

Bill:

My name is Gary and call is K4MT and I live in Sevierville, TN. I worked in enginerring for Ten-Tec for a while and have been in the technical field since I was a kid.

If you google around you will find lots of repair info on the ts-520. The exact problem I found was rare but the relay driver transistor is a high failure part. They did not put a high enough capacity transistor to drive the relays and in time they will eventually fail.

Thanks,

Gary

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...> wrote:
>
> What's the name there? I am too lazy to check QRZ! hi...
>
> Congrats on the fix. You should consider setting up a shop if you haven't
> already. There are not that many guys fixing this old stuff and it's
> expensive to ship to repair shops out of town.
>
> 73!
>
> Bill K0ZL
>
>
> On 6/12/06, K4MT <k4mt@...> wrote:
> >
> > Hi all:
> >
> > I have just purchased a TS-520S and decided to join your group. I got
> > a great bargain on the 520 at a local hamfest as it had issues with
> > noise pops in the audio. To make a long story short the VOX board
> > relay control transister Q8 was leaky and the radio was going from RX
> > to TX at a high random rate when the radio warmed up.
> >
> > I just finished peaking radio and put it on the air for the first time
> > today and got the normal 520 report. Great sounding transmit

audio!
> > Radio puts out over 100 watts and finals seem fine. What a find!
> >
> > Looking forward to watching this group for tips as I restore this
> > radio.
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

7982. Lost freq stability on TS-820S under 20M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-15 04:58:56 UTC
From: ke9zm
Topic: 7982 Message: 7982

Its always something...

After some pretty good luck with my TS-820S it developed this interesting problem.

It lost freq stability on 20M on up. Under 20M everything is OK.

For example, right now on 20M my digital display won't lock, its cycling 14.229.x to 14.300.x. Just random digits for last digit.

Needless to say, the transmit is distorted as tested against a local reciever. And, it can't lock on a freq for receive. Its not the digital display - pretty sure its counting correctly and the VFO has gone nuts.

Pretty sure the 820s uses a PLL. So why can't it lock? If the master oscillator was messed then why can it lock on freqs below 20M?

If everything worked, then what fun would this be??

Thanks
Gary / ke9zm

7983. Re: Tube question?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-16 11:32:50 UTC
From: John Wilson
Topic: 7968 Message: 7983

use the 6146w it is a military heavy duty tube will out last 6146b's and is better if you plan on mobile use .
I have ts 830 and my brother has a ts 520s both are getting new finals this weekend.

Sneak preview the all-new Yahoo.com. It's not radically different. Just radically better.

[Non-text portions of this message have been removed]

7984. mic impedance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-16 12:59:04 UTC
From: cybercat321
Topic: 7984 Message: 7984

Hello Group!
I have a TS520 and was wondering about using a matching transformer to allow use of a lo-z mic on it.

I'm considering an Astatic LT-6 which is actually a line matching transformer ('cause I already have one in the junkbox that was used with a Bogen amp).

One end has pins marked as 1)GND 2)COM 3)50 ohms 4)150-250 ohms.
The other is indicated as HZ (I assume that's for Hi-Z).

I'm thinking a 600 ohms (or so) lo-z mic on pin 4 and the Hi-Z side to the mic input on the xcvr.

Comments and opinions, please?

thanx in advance

- Bill H. / va3hwa

7985. Re: [TS-520_820_530_830] mic impedance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-16 15:09:22 UTC
From: Pierre Wells
Topic: 7984 Message: 7985

Bill
Your << 600 ohms (or so) lo-z mic on pin 4 and the Hi-Z side to
the mic input on the xcvr. >> Is right on!!
Should work. Have things well sheilded to avoid hum induction.
Peter VE2FAR

cybercat321 <cybertiger@...> wrote: Hello Group!
I have a TS520 and was wondering about using a matching transformer to
allow use of a lo-z mic on it.

I'm considering an Astatic LT-6 which is actually a line matching
transformer ('cause I already have one in the junkbox that was used
with a Bogen amp).

One end has pins marked as 1)GND 2)COM 3)50 ohms 4)150-250 ohms.
The other is indicated as HZ (I assume that's for Hi-Z).

I'm thinking a 600 ohms (or so) lo-z mic on pin 4 and the Hi-Z side to
the mic input on the xcvr.

Comments and opinions, please?

thanx in advance

- Bill H. / va3hwa

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

7986. Re: [TS-520_820_530_830] mic impedance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-16 19:39:20 UTC
From: Walt Breining
Topic: 7984 Message: 7986

Should work just fine.
Walt, N9WB

----- Original Message -----
From: cybercat321
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 16, 2006 7:59 AM
Subject: [TS-520_820_530_830] mic impedance

Hello Group!
I have a TS520 and was wondering about using a matching transformer to allow use of a lo-z mic on it.

I'm considering an Astatic LT-6 which is actually a line matching transformer ('cause I already have one in the junkbox that was used with a Bogen amp).

One end has pins marked as 1)GND 2)COM 3)50 ohms 4)150-250 ohms.
The other is indicated as HZ (I assume that's for Hi-Z).

I'm thinking a 600 ohms (or so) lo-z mic on pin 4 and the Hi-Z side to the mic input on the xcvr.

Comments and opinions, please?

thanx in advance

- Bill H. / va3hwa

[Non-text portions of this message have been removed]

7987. Thanks To All

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-16 19:57:45 UTC
From: cdf00001
Topic: 7987 Message: 7987

Hello,
I would like to Thank all who replyed to my request for a sorce for the side cover hatch pins for my TS-520S. I ordered them from 2 places and they arrived in todays mail. Now everything is a plus again on my radio.
Thank You,
Charlie W4CDF

7988. 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-16 22:01:19 UTC
From: Roberto Baca Barnard
Topic: 7968 Message: 7988

I just logged QSO NUMBER 820 with my 820, a beautiful radio I've owned since November 2005.

My TS820's S2001s are original--according to research I did with the former owner in Seattle--and seem to be just fine (knock on wood). I treat them with care and carefully dusted out the entire rig as advised. The cooling fan is fine. Cabling is in good shape. All pots and switches have been gingerly cleaned following instructions here described. Little trimmers on boards look a bit 'ancien regime' but also cleaned.

In July I'm going to buy a set of the 'Ws from RF parts that cost $60, and have them on the shelf with the 12BY driver I got from the Surplus outlet. Just in case.

The INRAD CW filter is also the way to go.

I do appreciate the technical and engineering expertise here greatly, and look forward to another 820 contacts. Thanx

7989. Re: mic impedance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-17 02:00:14 UTC
From: Ellen R
Topic: 7984 Message: 7989

Hi Bill,

It should work OK, as long as the the HI-Z impedance output is near the 50K ohms your 520 needs. The audio should be OK too. Some of the most famous microphones used in music, the Shure SM-57, and the Shure SM-58 (my favorite - I bought my own personal one, to use for my lead and backing vocals, in my rock band), basically were the reverse of your situation. They were high impedance mics that Shure put a transformer into, so they could be used with the low input impedance, that virtually every PA made since the late 60s/early 70s uses. They sound so good, that they have far outsold the low impedance versions that Shure finally made of these venerable mics (the SM-43, for instance), which do NOT have impedance transformers in them.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "cybercat321" <cybertiger@...> wrote:
>
> Hello Group!
> I have a TS520 and was wondering about using a matching transformer to
> allow use of a lo-z mic on it.
>
> I'm considering an Astatic LT-6 which is actually a line matching
> transformer ('cause I already have one in the junkbox that was used
> with a Bogen amp).
>
> One end has pins marked as 1)GND 2)COM 3)50 ohms 4)150-250 ohms.
> The other is indicated as HZ (I assume that's for Hi-Z).
>
> I'm thinking a 600 ohms (or so) lo-z mic on pin 4 and the Hi-Z side to
> the mic input on the xcvr.
>
> Comments and opinions, please?
>
> thanx in advance
>
> - Bill H. / va3hwa
>

7990. Re: 820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-17 02:06:39 UTC
From: Ellen R
Topic: 7968 Message: 7990

Hi Rob,

Glad to hear you got the INRAD filter. See, I told you it's better
do do CW with a 400 or 500Hz filter. :) The TS-820 is a nice radio.
I love mine. The receiver is good, and the transmit audio is great.
Ever since I put the new 6146Ws in, and neutralized them, it's given
me a solid 100W out.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard"
<barnardbaca@...> wrote:
>
> I just logged QSO NUMBER 820 with my 820, a beautiful radio I've
> owned since November 2005.
>
> My TS820's S2001s are original--according to research I did with
the
> former owner in Seattle--and seem to be just fine (knock on wood).
I
> treat them with care and carefully dusted out the entire rig as
> advised. The cooling fan is fine. Cabling is in good shape. All
pots
> and switches have been gingerly cleaned following instructions here
> described. Little trimmers on boards look a bit 'ancien regime' but
> also cleaned.
>
> In July I'm going to buy a set of the 'Ws from RF parts that cost
> $60, and have them on the shelf with the 12BY driver I got from the
> Surplus outlet. Just in case.
>
> The INRAD CW filter is also the way to go.
>
> I do appreciate the technical and engineering expertise here
> greatly, and look forward to another 820 contacts. Thanx
>

7991. Neutralize ts530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-17 16:03:38 UTC
From: Tim
Topic: 7991 Message: 7991

Hi and TNX in advance

PLEASE give me the steps to neurtalize the 6184 finals.

TU
73's
Tim..kd2oe

7992. 12BY7 (A)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-17 23:04:53 UTC
From: kc2aup@arrl.net
Topic: 7992 Message: 7992

This might be a silly question, but is there a difference between the 12by7 and the 12by7a?

[Non-text portions of this message have been removed]

7993. N4DH-BILL,KI0KM-BOB

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 00:34:38 UTC
From: Paul
Topic: 7993 Message: 7993

HELLO BILL AND BOB:
I SENT THE PARTS OUT TO YOU TODAY,I ONLY GET TO TOWN 1 TIME A MO. OR
SO,I LIVE WAY OUT IN THE BOONIES HR AND ITS 17 MILES TO THE POST OFFICE
I SENT BOTH OF YOUS A FEW LITTLE OTHER GOODIES FOR THE 520-820 RIGS,
I HAVE A FEW MORE PARTS BUT NEED TO FIND THEM IN THE WORKSHOP,ILL LOOK
FOR THEM NEXT MO. OR SO IAM BUSY GUIDING TROUT FISHERMEN NOW.
TAKE CARE,73/GL/DX.
DE-K8PG-PAUL-CW LIVES

7994. Re: 12BY7 (A)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 01:52:14 UTC
From: Ellen R
Topic: 7992 Message: 7994

I think there are some differences in the internal construction of the 12BY7A, which is basically an update/revision of the 12BY7.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, kc2aup@... wrote:
>
>
> This might be a silly question, but is there a difference between the 12by7
> and the 12by7a?
>
>
> [Non-text portions of this message have been removed]
>

7995. Re: [TS-520_820_530_830] Neutralize ts530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 11:45:19 UTC
From: Walt Breining
Topic: 7991 Message: 7995

The following has been placed in the Files section of this group.
There are two was to neutralize a Kenwood TS-520, 820, 530, or 830.

First method:
Connect the rig to a dummy load through a T connector.
Tune up your rig for full power in CW on the following frequency depending on your rig.

TS-520 28.5 MHz
TS-820 21.3 MHz
TS-530 28.5 MHz
TS-830 28.5 MHz

After tuning, place the SG switch to off.
Connect an oscilloscope by way of a X10 probe to the T connector.
Adjust the neutralization capacitor for lowest indication on the scope.

Second method:

Connect your rig through a wattmeter to a dummy load or an antenna that will produce a very low SWR at the frequency below. Tune up the rig for full power on CW on the frequency below.

TS-520 28.5 MHZ
TS-820 21.3 MHz
TS-530 28.5 MHz
TS-830 28.5 MHz

Leave the SG switch ON.
Place the meter switch in the IP position. While slighting moving the Tune control, the output on the watt meter should peak at exactly the same point as the IP meter reaches the minimum of its dip. Nudge the neutralization capacitor a bit at a time until this condition is achieved.

Notes:
This condition will only occur on or near the frequencies specified above.

Use a plastic tool if possible because there is high voltage on the neutralization capacitor.

Even if a plastic tool is used, it must be removed before neutralization is checked.

Final unit cover must be in place for proper neutralization.

If you have trouble turning the neutralization capacitor with the plastic tool, a metal screwdriver with a good plastic handle can be used as follows:

Place two layers of shrink tubing over the screwdriver shaft to avoid contact with the outer edge of the neutralization capacitor access hole.

Be sure the plastic handle of the screwdriver is sufficient to protect you from the high voltage. Do not use a wood handle screwdriver.

The screwdriver must be removed completely to check for a neutralized condition.

Vy 73, Walt N9WB

----- Original Message -----
From: Tim
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 17, 2006 11:03 AM
Subject: [TS-520_820_530_830] Neutralize ts530sp

Hi and TNX in advance

PLEASE give me the steps to neurtalize the 6184 finals.

TU
73's
Tim..kd2oe

[Non-text portions of this message have been removed]

7996. SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 14:37:54 UTC
From: Bill Scurlock
Topic: 1439 Message: 7996

Good Morning All.

Does anyone have the schematic for the SP-820 speaker circuit that they could email me? Or, do you know a site where I can download it? I can't find it on BAMA or any Kenwood site I know of. Only the SP-230 appears to be out there, and the SP-820 is different. My email is k5gcw@... . Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

7997. GREAT DAY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 14:54:57 UTC
From: AllanKB5DOH
Topic: 7997 Message: 7997

[:)] Great Day

On this great day of June 18th, 2006 I will wish all the Dads out there a good and happy and memorable day and that all your wishes come true, Yes it is Fathers Day which I call it Dads Day because anyone can be a father but it take a special, cool, caring, loving, and understanding guy to be a DAD.

As for me well I have three children "Kids" whom I am very proud of and sometimes so proud my hats will not fit on my head lol, my first is Becky she is 22 years of age and a full time member of the Oklahoma Nat. Guard and has her own Mary Kay business (which by the way she has mens products too) and she loves dogs and animals, my 2nd is Zachary "ZAC" he is 18 years of age will be 19 come July he is as close a chip off the ole block as can get least as I was when his age LOL, and then there is number 3 Aaron my 16 years of age son he is the more academic one he has to know all about anything that grabs his fancy and he has plans to be a Marine or in the Army a carrier man wow what can I say "GRIN"

Well that is enough bragging on my part better leave some space here today for the rest of you Dads in the group to brag lol, and I hope you do "grin" after all it is OUR Day to do just that and have time with them as well so come on and go on Brag and have a really good Dads Day today.

May God Bless You and Yours this day and everyday.

Allan = kb5doh

[Non-text portions of this message have been removed]

7998. TNX to Walt and the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 15:38:09 UTC
From: Tim
Topic: 7998 Message: 7998

I appreciate the effort and information. TNX for putting the procdure
in the files.

73's
Happy Father's Day

Tim
KD2OE

7999. Re: Neutralize ts530sp-safely

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-18 16:35:09 UTC
From: stevehurstg8lik2003
Topic: 7991 Message: 7999

For those who often delve in the innards of the 530 series rigs and don't want to take unnecessary risks of damaging self or equipment proper live working electricians insulated screwdrivers are available at reasonable expense eg off eBay.These have a hard plastic sheath all down the driver except for the tip and are rated at 1000V DC use (tested at 10KV). The 7 piece Stanley set I just purchased was around £9 excluding shipping or some $16 which is well worth the piece of mind.
Best 73's to all,

Steve G8LIK

8000. Fwd: [TS-520_820_530_830] Re: 12BY7 (A)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-19 01:37:21 UTC
From: kc2aup@arrl.net
Topic: 8000 Message: 8000

Does this mean I can use the 12by7a in place of the 12by7?

[Non-text portions of this message have been removed]

8001. Re: [TS-520_820_530_830] Re: 12BY7 (A)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-19 02:53:55 UTC
From: Walt Breining
Topic: 7992 Message: 8001

I don't see any reason why it would not work. Do you Bill ?
Walt N9WB

----- Original Message -----
From: kc2aup@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 18, 2006 8:37 PM
Subject: Fwd: [TS-520_820_530_830] Re: 12BY7 (A)

Does this mean I can use the 12by7a in place of the 12by7?

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8002. crystal mod in 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-19 01:58:49 UTC
From: valuedprofile
Topic: 8002 Message: 8002

Greetings all, hope everyone had a good Father's Day!

I just found out that I can sacrifice my 29.1 band on the TS-520 and replace that crystal with a 11 meter, or even 60 meter (for MARS operations).

Since I don't use the upper bands, it would be no loss to me and a benefit to be able to use my radio for my MARS operations, albeit not NTIA certified.

Anyone know more information about this? Ideal crystal replacements, frequency of the crystals to be installed (or the manual location), any know issues, etc??

Thank you!

73, Frank K2NCC

8003. the real-deal 6146W tubes available from Radio Daze

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-19 16:45:54 UTC
From: jack99rubin
Topic: 8003 Message: 8003

Take a peek at www.RadioDaze.com - genuine NOS Sylvania 6146W (=mil spec 6146B?) tubes at $24/ea, matched pairs at $49/set. I've ordered but not yet received a set seeing as how the per pair price was hard to beat. Though I haven't yet gotten the tubes, I've dealt with these folks before, both mail order and as a walk-in customer. Good people, good merchandise, good prices.

No personal or financial interest in the company, etc....

73s de KC9HVE
Jack

8004. Re: [TS-520_820_530_830] the real-deal 6146W tubes available from Radio Daze

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 13:22:10 UTC
From: Bill Leahy
Topic: 8003 Message: 8004

Thanks for the referral, let us know how it works out.

bill

On 6/19/06, jack99rubin <jack.rubin@...> wrote:
>
> Take a peek at www.RadioDaze.com - genuine NOS Sylvania 6146W (=mil
> spec 6146B?) tubes at $24/ea, matched pairs at $49/set. I've ordered
> but not yet received a set seeing as how the per pair price was hard to
> beat. Though I haven't yet gotten the tubes, I've dealt with these
> folks before, both mail order and as a walk-in customer. Good people,
> good merchandise, good prices.
>
> No personal or financial interest in the company, etc....
>
> 73s de KC9HVE
> Jack
>
>
>

[Non-text portions of this message have been removed]

8005. Re: [TS-520_820_530_830] crystal mod in 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 13:26:22 UTC
From: Bill Leahy
Topic: 8002 Message: 8005

Unless you want to do some major modifications, whatever crystal you put in place of 29.1 needs to be within a few megs of 29.1! The lower bands will not work as the RF tuned circuits are shared among the three ten meter band positions; 12 meters is a bit of a stretch. Of course 11M is illegal to use at any rate, unless you have MARS freqs up there.

I would save pennies and get a good 2nd rig such as the ic-718 (about the best deal on the mrkt for a second HF solid state rig) plus that will give you option of battery and mobile or portable operation.

73,

Bill K0ZL

On 6/18/06, valuedprofile <defaultprofile@...> wrote:
>
> Greetings all, hope everyone had a good Father's Day!
>
> I just found out that I can sacrifice my 29.1 band on the TS-520 and
> replace that crystal with a 11 meter, or even 60 meter (for MARS
> operations).
>
> Since I don't use the upper bands, it would be no loss to me and a
> benefit to be able to use my radio for my MARS operations, albeit not
> NTIA certified.
>
> Anyone know more information about this? Ideal crystal replacements,
> frequency of the crystals to be installed (or the manual location),
> any know issues, etc??
>
> Thank you!
>
> 73, Frank K2NCC
>
>
>

[Non-text portions of this message have been removed]

8006. Re: [TS-520_820_530_830] GREAT DAY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 13:28:23 UTC
From: Bill Leahy
Topic: 7997 Message: 8006

off topic, but a blessing nonetheless! hi..
Thanks Allan, and happy Father's Day to everyone!

Uncles, Brothers, Grandpas and Great Grandpas, Mentors, and single Moms too!
har...

Bill K0ZL

On 6/18/06, AllanKB5DOH <a1mc@...> wrote:
>
>
> [:)] Great Day
>
> On this great day of June 18th, 2006 I will wish all the Dads out there
> a good and happy and memorable day and that all your wishes come true,
> Yes it is Fathers Day which I call it Dads Day because anyone can be a
> father but it take a special, cool, caring, loving, and understanding
> guy to be a DAD.
>
> As for me well I have three children "Kids" whom I am very proud of and
> sometimes so proud my hats will not fit on my head lol, my first is
> Becky she is 22 years of age and a full time member of the Oklahoma Nat.
> Guard and has her own Mary Kay business (which by the way she has mens
> products too) and she loves dogs and animals, my 2nd is Zachary "ZAC" he
> is 18 years of age will be 19 come July he is as close a chip off the
> ole block as can get least as I was when his age LOL, and then there is
> number 3 Aaron my 16 years of age son he is the more academic one he has
> to know all about anything that grabs his fancy and he has plans to be a
> Marine or in the Army a carrier man wow what can I say "GRIN"
>
> Well that is enough bragging on my part better leave some space here
> today for the rest of you Dads in the group to brag lol, and I hope you
> do "grin" after all it is OUR Day to do just that and have time with
> them as well so come on and go on Brag and have a really good Dads Day
> today.
>
> May God Bless You and Yours this day and everyday.
>
> Allan = kb5doh
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

8007. Re: the real-deal 6146W tubes available from Radio Daze

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 14:29:19 UTC
From: Thomas Martin
Topic: 8003 Message: 8007

6146W's are mil spec 6146 or 6146A's, not B's. I checked for my
TS-830S some time ago.
<>< <>< <>< <>< <>< <><
73's
Tom NØDIH

>>>>>>>>>> FREE! - 6 MONTHS FREE INTERNET ACCESS - FREE! <<<<<<<<<<
Peninsula Systems, http://www.pensys.com, offers 6 MONTHS FREE INTERNET ACCESS!

[Non-text portions of this message have been removed]

8008. Re: the real-deal 6146W tubes available from Radio Daze

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 14:58:45 UTC
From: w9dz
Topic: 8003 Message: 8008

FWIW, I lifted this text from Glen Zook's (K9STH) 6146 MS Word doc in the files section. If he is correct it appears that most U.S. manufacturers stopped making 6146 and 6146A's a year or so after the 6146B came out.

"Those companies who were manufacturing 6146 series tubes for the military changed from the "plain" 6146 to the 6146A to the 6146B as the military decreed. However, all of the tubes manufactured under military contracts were known as 6146W and, to my knowledge, nothing was done towards marking the tubes as being equivalents of the 6146, 6146A, or 6146B. The only way of telling is from the "date code" which is printed on each tube. Different manufacturers changed tube types at different times. Also, I know of no "master list" telling on what date a particular manufacturer changed from the 6146 to the 6146A to the 6146B. The only "sure" way to know if a particular 6146W is of either the 6146 or 6146A type is to look for a "code date" of before 1964 since RCA introduced the 6146B in the middle of that year. However, some manufacturers did not start manufacturing 6146B equivalent 6146W tubes for at least a year after RCA introduced the 6146B."

I have a few old 6146 and 6146A's in the junk box. I need to check and see if I can find any with date codes newer than 1965.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, Thomas Martin <nhzlv@...> wrote:
>
> 6146W's are mil spec 6146 or 6146A's, not B's. I checked for my
> TS-830S some time ago.
> <>< <>< <>< <>< <>< <><
> 73's
> Tom NØDIH
>

8009. Re: [TS-520_820_530_830] Re: the real-deal 6146W tubes available from Radio Daze

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 18:50:52 UTC
From: Stephen Goldberg
Topic: 8003 Message: 8009

6146W's dated later than 1965 ARE MilSpec 6146B's.
Steve W4IMF

----- Original Message -----
From: Thomas Martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 20, 2006 10:29 AM
Subject: [TS-520_820_530_830] Re: the real-deal 6146W tubes available from Radio Daze

6146W's are mil spec 6146 or 6146A's, not B's. I checked for my
TS-830S some time ago.
<>< <>< <>< <>< <>< <><
73's
Tom N?DIH

>>>>>>>>>> FREE! - 6 MONTHS FREE INTERNET ACCESS - FREE! <<<<<<<<<<
Peninsula Systems, http://www.pensys.com, offers 6 MONTHS FREE INTERNET
ACCESS!

[Non-text portions of this message have been removed]

Received Virus Free
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.1/369 - Release Date: 6/19/06

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.1/369 - Release Date: 6/19/06

8010. Heil Goldline GM-4 Microphone and accessories.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 18:28:43 UTC
From: Bert Morton
Topic: 8010 Message: 8010

I have for sale a Heil Goldline dual element microphone Model GM-4

It is in like new condition and has had very little use.

Includes:

GM-4 Microphone with zipper case.

Cable for Kenwood TS-570,870,2000 etc.

Black crinkle finish Heil desk stand base.

New price $210 plus.

Asking $150 plus actual shipping from 05773.

I also have the adapter cable to allow using it with a TS-520, TS-820 seies.

Asking $15 plus actual shipping from 05773.

$160 for all plus shipping.

Thanks for looking.

73,

Bert W1DFU

8011. Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 20:44:46 UTC
From: Bill Scurlock
Topic: 8011 Message: 8011

Since I still can't find schematic information on the SP-820, and no one responded to my original request for help, I'm re-sending my help request. Thanks.

73, Bill, K5GCW
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 18, 2006 9:37 AM
Subject: [TS-520_820_530_830] SP-820 Speaker

Good Morning All.

Does anyone have the schematic for the SP-820 speaker circuit that they could email me? Or, do you know a site where I can download it? I can't find it on BAMA or any Kenwood site I know of. Only the SP-230 appears to be out there, and the SP-820 is different. My email is k5gcw@... . Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8012. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 20:50:14 UTC
From: OneG @ The Taj Mahal
Topic: 8011 Message: 8012

Bill Scurlock wrote:
> Since I still can't find schematic information on the SP-820, and no one responded to my original request for help, I'm re-sending my help request. Thanks.
>
> 73, Bill, K5GCW

Hey Bill:::

Maybe I am Naive but is there really more than the standard 2 wires
going into this speaker?

I guess I have lots to LEARN :)

K7GNO

Geno
Middleton Id...

8013. RF Volts control on side panel TS-520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 19:17:45 UTC
From: Dole
Topic: 8013 Message: 8013

Hello All,

I have recently discovered the RF volts control pot on the side panel of my TS-520SE is dirty. I watched my RF output turn erratic after I touched it. I managed to find a clean spot, so I ask this - How do I properly set this control? And after my repair attempt at cleaning the pot (if it fails) is there a source for an original spare?

Regards,

Robert
KB8UFP

8014. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 22:25:11 UTC
From: Bill Scurlock
Topic: 8011 Message: 8014

Geno, you are correct as far as connecting to the speaker goes. But, inside the cabinet there is a passive audio filtering circuit that is connected to 3 pushbuttons on the front panel that select different frequency responses for the audio going to the speaker.

My problem is that a prior owner added another elaborate filter board that he designed that did wonders for his CW operation, but it sounds lousy in SSB operation. He left another, disconnected, smaller circuit board with 3 large inductors and a few "tacked-on" capacitors inside the enclosure, but I don't know if this is the original filter board or something else he added.

The SP-230 has similar switches on the front panel, but it only shows 2 inductors and a single capacitor in it's circuit. I ran a frequency response on the small board with 3 inductors that he left, and the output drops significantly below 2000 cps - so that's no good.

I'm probably going to have to design and build a new circuit, and I'm just trying to find out what the original component values were and how the circuit was configured.

Thanks for your reply Geno.

73, Bill, K5GCW

----- Original Message -----
From: OneG @ The Taj Mahal
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 20, 2006 3:50 PM
Subject: Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Bill Scurlock wrote:
> Since I still can't find schematic information on the SP-820, and no one responded to my original request for help, I'm re-sending my help request. Thanks.
>
> 73, Bill, K5GCW

Hey Bill:::

Maybe I am Naive but is there really more than the standard 2 wires
going into this speaker?

I guess I have lots to LEARN :)

K7GNO

Geno
Middleton Id...

[Non-text portions of this message have been removed]

8015. RE: [TS-520_820_530_830] Re: the real-deal 6146W tubes available from Radio Daze

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 21:31:39 UTC
From: Walter Milton
Topic: 8003 Message: 8015

What is the date stamp format on the tubes?? I have a pair of 6146W and I
would like to know how old they are.

Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Goldberg
Sent: Tuesday, June 20, 2006 2:51 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: the real-deal 6146W tubes available
from Radio Daze

6146W's dated later than 1965 ARE MilSpec 6146B's.
Steve W4IMF

----- Original Message -----
From: Thomas Martin
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Tuesday, June 20, 2006 10:29 AM
Subject: [TS-520_820_530_830] Re: the real-deal 6146W tubes available from
Radio Daze

6146W's are mil spec 6146 or 6146A's, not B's. I checked for my
TS-830S some time ago.
<>< <>< <>< <>< <>< <><
73's
Tom NØDIH

>>>>>>>>>> FREE! - 6 MONTHS FREE INTERNET ACCESS - FREE! <<<<<<<<<<
Peninsula Systems, http://www.pensys. <http://www.pensys.com,> com, offers
6 MONTHS FREE INTERNET
ACCESS!

[Non-text portions of this message have been removed]

Received Virus Free
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.1/369 - Release Date: 6/19/06

--
Certified Virus Free.
Checked by AVG Free Edition.

Version: 7.1.394 / Virus Database: 268.9.1/369 - Release Date: 6/19/06

[Non-text portions of this message have been removed]

8016. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 23:35:49 UTC
From: dave@zievid.com
Topic: 8011 Message: 8016

Bill -

I have the service manual for the SP-820 (all 4 pages long) and will try
and get it scanned for you. Not sure when I can get to it, but I'll try
to do it soon.

- Dave
W6OT

> Geno, you are correct as far as connecting to the speaker goes. But,
> inside the cabinet there is a passive audio filtering circuit that is
> connected to 3 pushbuttons on the front panel that select different
> frequency responses for the audio going to the speaker.
>
> My problem is that a prior owner added another elaborate filter board that
> he designed that did wonders for his CW operation, but it sounds lousy in
> SSB operation. He left another, disconnected, smaller circuit board with
> 3 large inductors and a few "tacked-on" capacitors inside the enclosure,
> but I don't know if this is the original filter board or something else he
> added.
>
> The SP-230 has similar switches on the front panel, but it only shows 2
> inductors and a single capacitor in it's circuit. I ran a frequency
> response on the small board with 3 inductors that he left, and the output
> drops significantly below 2000 cps - so that's no good.
>
> I'm probably going to have to design and build a new circuit, and I'm just
> trying to find out what the original component values were and how the
> circuit was configured.
>
> Thanks for your reply Geno.
>
> 73, Bill, K5GCW
>
>
> ----- Original Message -----
> From: OneG @ The Taj Mahal
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, June 20, 2006 3:50 PM
> Subject: Re: Fw: [TS-520_820_530_830] SP-820 Speaker
>
>
> Bill Scurlock wrote:
> > Since I still can't find schematic information on the SP-820, and no
> one responded to my original request for help, I'm re-sending my help
> request. Thanks.

> >
> > 73, Bill, K5GCW
>
> Hey Bill:::
>
> Maybe I am Naive but is there really more than the standard 2 wires
> going into this speaker?
>
> I guess I have lots to LEARN :)
>
> K7GNO
>
> Geno
> Middleton Id...
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

8017. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-20 23:56:19 UTC
From: OneG @ The Taj Mahal
Topic: 8011 Message: 8017

dave@... wrote:
> Bill -
>
> I have the service manual for the SP-820 (all 4 pages long) and will try
> and get it scanned for you. Not sure when I can get to it, but I'll try
> to do it soon.
>
> - Dave
> W6OT
>
>
>
>
>>Geno, you are correct as far as connecting to the speaker goes. But,
>>inside the cabinet there is a passive audio filtering circuit that is
>>connected to 3 pushbuttons on the front panel that select different
>>frequency responses for the audio going to the speaker.
>>
>>My problem is that a prior owner added another elaborate filter board that
>>he designed that did wonders for his CW operation, but it sounds lousy in
>>SSB operation. He left another, disconnected, smaller circuit board with
>>3 large inductors and a few "tacked-on" capacitors inside the enclosure,
>>but I don't know if this is the original filter board or something else he
>>added.
>>
>>The SP-230 has similar switches on the front panel, but it only shows 2
>>inductors and a single capacitor in it's circuit. I ran a frequency
>>response on the small board with 3 inductors that he left, and the output
>>drops significantly below 2000 cps - so that's no good.
>>
>>I'm probably going to have to design and build a new circuit, and I'm just
>>trying to find out what the original component values were and how the
>>circuit was configured.
>>
>>Thanks for your reply Geno.
>>
>>73, Bill, K5GCW
>>
>>

Very Interesting~~~

I had no Idea...

I have a Kenwood & sp-520.. It doesn't have switches at all...
I wonder if it has a board as well..

HUM

SEE an OLD DOG can still learn a thing or 2...

THANKS for the heads UP..

I am always glad to learn something...

K7Gno

Gno

8018. Re: [TS-520_820_530_830] RF Volts control on side panel TS-520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 02:43:05 UTC
From: Bill Leahy
Topic: 8013 Message: 8018

Cleaning the pot won't fail. Use Cailube MCL, you can get this from Radio
Shack; it's not cheap but it will last you a long time, even the tiny can.

73

bill

On 6/20/06, Dole <bobdole369@...> wrote:
>
> Hello All,
>
> I have recently discovered the RF volts control pot on the side panel
> of my TS-520SE is dirty. I watched my RF output turn erratic after I
> touched it. I managed to find a clean spot, so I ask this - How do I
> properly set this control? And after my repair attempt at cleaning the
> pot (if it fails) is there a source for an original spare?
>
> Regards,
>
> Robert
> KB8UFP
>
>
>

[Non-text portions of this message have been removed]

8019. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 02:57:13 UTC
From: N6WK
Topic: 8011 Message: 8019

Bill,
Go to my website and download the speaker service manual and what ever
else you need.
http://www.n6wk.com/kenwood/

73,
Gordon

[Non-text portions of this message have been removed]

8020. My TRIO TS-820S Tranceiver

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 03:21:38 UTC
From: Gordon
Topic: 8020 Message: 8020

Well, I finally finished my "Project" TS-820S.
It turned out Great. It functions Perfectly with 120 watts Output but
I did have to repaint the case (With the Original Kenwood Color). I
must say, I am very happy wih how it all turned out.
I am Now going to sell it, As I just purchased another TS-820 that I
am Restoring.
Here is a Picture of my Finished Trio TS-820S
http://www.n6wk.com/kenwood/820S/DSCF0015.JPG
I'm pretty Proud of how it turned out.

73,
Gordon
N6WK

Now I am looking for a TS-830S that is NON working to refurbish also !

8021. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 04:48:00 UTC
From: Dave
Topic: 8011 Message: 8021

I guess I should read my email before dragging out the scanner - in any case, there's another one available at http://www.zievid.com/W6OT/SP-820ServiceManual.zip

- Dave
W6OT

N6WK wrote:
>
> Bill,
> Go to my website and download the speaker service manual and what ever
> else you need.
> http://www.n6wk.com/kenwood/ <http://www.n6wk.com/kenwood/>
>
> 73,
> Gordon
>
> [Non-text portions of this message have been removed]
>
>

8022. New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 05:15:57 UTC
From: Gordon
Topic: 8022 Message: 8022

Hi All,
Well I started on my newest TS-820 Project last evening. I received it, Unpacked it and looked it over. First thing I noticed was the VFO plug was missing. So, I made a jumper and jumped pins 8 and 9.
I hooked up my Transformer saver (Thanks to Walt N9WB) and plugged it all in.I hooked up my 20 meter beam, and set the controls at 14 MHZ. I then turned it on... Whoa,,,It was receiving, But the Digital display was off by over 500 KC's. Ok. Turned the rig off and removed the Digital Display control unit. Took the covers off, removed the boards and checked for bad solder joints.... Nothing found, So I sprayed all the connectors and pins with DE-Oxit 5, then reassembled it. Hooked everything back up, plugged it all back in and turned it on... WOW, 14.200 was right on the money.. checked WWV and it also was dead on !
I noticed that the VFO was jumping around as I tuned so, I turned the rig back off, removed the VFO and sprayed the Wiper on the VFO with DE-Oxit 5. Reassembled and fired the rig back up. The VFO is Now clean and smooth. At this pont, I'm a pretty happy guy.
So Today I removed the Transformer saver and decided to try the Transmit part out. Switched my Antenna to Dummy Load. Went to 20 meters, placed it in USB and checked for grid Current..Hmmmm only 40 MA, so I adjusted it to 60 Ma. Then I placed it in tune and adjusted for Maximum ALC with the Drive Control... Looks Good.
Switched to RF and adjusted the plate and Load controls for Maximum output. I quickly noticed that Maximum output and the Plate Dip did Not correspond, So I switched to 21.3 and Neutralized the Finals with the SG switch OFF!
Turned the SG switch back on and checked all bands. My Maximum output now matches my Plate current Dip. Ok.. Lets put this little girl on the Air.
I went to 20 meters as that is the best band for the Evening here to work DX. I heard Ly80Z on 14.177.. Ok, I'll give him a call. ooops, No output.hmmmm OH, Ok, The mike drive is way too low. So I call again and adjust the mic gain up until it stays within the ALC range..
Cool, LY80Z comes back and says .. N6WK good Signal..You are 5-8 here in Lithuania. I gave him a 5-9 and we both moved on. I then heard a DL6LW on 14.177 so I thought, hey , I'll turn the processor on and give him a call. Dang, First call he came right back to me. Gave me a nice 5-9 signal with "Nice Audio" attached. I was VERY happy at this point. I also gave him an S9 as conditions were good here.
Next I came cross a pileup on 14.245... I listened and heard a G7 asking for stateside, what to heck, I'll give him a shout, First call, he came right back, said his call was G7GNM and I was a SOLID s-8 into Hull England and sounded Very Good. I also gave him an S-8 and we said Our Good Byes.

So, I guess this Newest little TS-820 with Digital Display is Ready to Play.
Now I am looking for an 830 that is NON working to play with.

73,
Gordon

8023. Heil Goldline GM-4 Microphone***REVISED***

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 10:59:32 UTC
From: Bert Morton
Topic: 8023 Message: 8023

I have for sale a Heil Goldline dual element microphone Model GM-4 and accessories.

All are in like new condition and have had very little use.
;
GM-4 Microphone with zipper case. Asking $95 plus actual shipping from 05773

Cable for Kenwood TS-570,870,2000 etc. Asking $15 plus actual shipping from 05773

Cable for Kenwood TS-520, TS-820 etc. Asking $15 plus actual shipping from 05773

Black crinkle finish Heil desk stand base. Asking $25 plus actual shipping from 05773

Thanks for looking.

73,

Bert W1DFU

8024. Re: [TS-520_820_530_830] New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 13:13:11 UTC
From: Bill Leahy
Topic: 8022 Message: 8024

Hey congrats, Gordo!

Gonna send all 820 repairs to you now, hi!!!

73,

Bill K0ZL

On 6/20/06, Gordon <n6wk@...> wrote:
>
> Hi All,
> Well I started on my newest TS-820 Project last evening. I received
> it, Unpacked it and looked it over. First thing I noticed was the VFO
> plug was missing. So, I made a jumper and jumped pins 8 and 9.
> I hooked up my Transformer saver (Thanks to Walt N9WB) and plugged it
> all in.I hooked up my 20 meter beam, and set the controls at 14 MHZ.
> I then turned it on... Whoa,,,It was receiving, But the Digital
> display was off by over 500 KC's. Ok. Turned the rig off and removed
> the Digital Display control unit. Took the covers off, removed the
> boards and checked for bad solder joints.... Nothing found, So I
> sprayed all the connectors and pins with DE-Oxit 5, then reassembled
> it. Hooked everything back up, plugged it all back in and turned it
> on... WOW, 14.200 was right on the money.. checked WWV and it also was
> dead on !
> I noticed that the VFO was jumping around as I tuned so, I turned the
> rig back off, removed the VFO and sprayed the Wiper on the VFO with
> DE-Oxit 5. Reassembled and fired the rig back up. The VFO is Now clean
> and smooth. At this pont, I'm a pretty happy guy.
> So Today I removed the Transformer saver and decided to try the
> Transmit part out. Switched my Antenna to Dummy Load. Went to 20
> meters, placed it in USB and checked for grid Current..Hmmmm only 40
> MA, so I adjusted it to 60 Ma. Then I placed it in tune and adjusted
> for Maximum ALC with the Drive Control... Looks Good.
> Switched to RF and adjusted the plate and Load controls for Maximum
> output. I quickly noticed that Maximum output and the Plate Dip did
> Not correspond, So I switched to 21.3 and Neutralized the Finals with
> the SG switch OFF!
> Turned the SG switch back on and checked all bands. My Maximum output
> now matches my Plate current Dip. Ok.. Lets put this little girl on
> the Air.
> I went to 20 meters as that is the best band for the Evening here to
> work DX. I heard Ly80Z on 14.177.. Ok, I'll give him a call. ooops,
> No output.hmmmm OH, Ok, The mike drive is way too low. So I call again
> and adjust the mic gain up until it stays within the ALC range..
> Cool, LY80Z comes back and says .. N6WK good Signal..You are 5-8 here
> in Lithuania. I gave him a 5-9 and we both moved on. I then heard a

> DL6LW on 14.177 so I thought, hey , I'll turn the processor on and
> give him a call. Dang, First call he came right back to me. Gave me a
> nice 5-9 signal with "Nice Audio" attached. I was VERY happy at this
> point. I also gave him an S9 as conditions were good here.
> Next I came cross a pileup on 14.245... I listened and heard a G7
> asking for stateside, what to heck, I'll give him a shout, First call,
> he came right back, said his call was G7GNM and I was a SOLID s-8 into
> Hull England and sounded Very Good. I also gave him an S-8 and we said
> Our Good Byes.
> So, I guess this Newest little TS-820 with Digital Display is Ready to
> Play.
> Now I am looking for an 830 that is NON working to play with.
>
> 73,
> Gordon
>
>
>

[Non-text portions of this message have been removed]

8025. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 13:20:54 UTC
From: Bill Leahy
Topic: 8011 Message: 8025

Thanks Dave!

First off, I have a real problem with manuals distributed as a series of GIFs or JPGs... you unzip them, and it clogs the platter with scads of files, and you can't tell what you are looking for until you methodically page through them, one image at a time...

So, I took this download, and brought it into one .pdf! Now you can have just one file, open it up, and methodically page thru it, one page at a time, looking for what you need! hi... but at least it's one file.

It will be on RUBE and on the yahoo group files page, if and when yahoo groups comes back up.

bill K0ZL

On 6/20/06, Dave <dave@...> wrote:
>
> I guess I should read my email before dragging out the scanner - in any
>
> case, there's another one available at
> http://www.zievid.com/W6OT/SP-820ServiceManual.zip
>
> - Dave
> W6OT
>
>
> N6WK wrote:
> >
> > Bill,
> > Go to my website and download the speaker service manual and what ever
> > else you need.
> > http://www.n6wk.com/kenwood/ <http://www.n6wk.com/kenwood/>
>
> >
> > 73,
> > Gordon
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
>
>

[Non-text portions of this message have been removed]

8026. Re: My TRIO TS-820S Tranceiver

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 15:26:38 UTC
From: Ellen R
Topic: 8020 Message: 8026

Hi Gordon,

I got a look at your finsihed masterpiece. It really looks good! I think the Trio line was mainly marketed outside of the US. Also mine doesn't have the TS-520 style VFO knob spinner that yours, and the other 820S radios have. By the way, you said that you got 120W out. Is that with the original 2001S tubews, or the 6146 series? Gee!! that rig looks good!

73,
Ellen - AF9J

P.S. - Ill try to get some photos of my baby in the group folder, so people can see what I mean about the differences between the 820 and the 820S.

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Well, I finally finished my "Project" TS-820S.
> It turned out Great. It functions Perfectly with 120 watts Output but
> I did have to repaint the case (With the Original Kenwood Color). I
> must say, I am very happy wih how it all turned out.
> I am Now going to sell it, As I just purchased another TS-820 that I
> am Restoring.
> Here is a Picture of my Finished Trio TS-820S
> http://www.n6wk.com/kenwood/820S/DSCF0015.JPG
> I'm pretty Proud of how it turned out.
>
> 73,
> Gordon
> N6WK
>
> Now I am looking for a TS-830S that is NON working to refurbish also !
>

8027. Re: My TRIO TS-820S Tranceiver

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 17:20:06 UTC
From: digs4ruff
Topic: 8020 Message: 8027

Gordon
Great looking rig now.
Barry
VA7GEM
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Well, I finally finished my "Project" TS-820S.
> It turned out Great. It functions Perfectly with 120 watts Output
but
> I did have to repaint the case (With the Original Kenwood Color).
I
> must say, I am very happy wih how it all turned out.
> I am Now going to sell it, As I just purchased another TS-820 that
I
> am Restoring.
> Here is a Picture of my Finished Trio TS-820S
> http://www.n6wk.com/kenwood/820S/DSCF0015.JPG
> I'm pretty Proud of how it turned out.
>
> 73,
> Gordon
> N6WK
>
> Now I am looking for a TS-830S that is NON working to refurbish
also !
>

8028. Re: My TRIO TS-820S Tranceiver

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 17:59:28 UTC
From: Gordon
Topic: 8020 Message: 8028

Hi Ellen,
Thanks to all for the kind words.
The tubes had been changed. I thought they were the S2001's as the
output was so good, but they are 6146B's.
The other 820 I have is only putting out a flat 100 watts, I have a
spare set of B's here I could put into it, but I'm content with the
100 watts out on the second one.
73,
Gordon

--- In TS-520_820_530_830@...m, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Gordon,
>
> I got a look at your finsihed masterpiece. It really looks good! I
> think the Trio line was mainly marketed outside of the US. Also mine
> doesn't have the TS-520 style VFO knob spinner that yours, and the
> other 820S radios have. By the way, you said that you got 120W out.
> Is that with the original 2001S tubews, or the 6146 series? Gee!! that
> rig looks good!
>
> 73,
> Ellen - AF9J
>
> P.S. - Ill try to get some photos of my baby in the group folder, so
> people can see what I mean about the differences between the 820 and
> the 820S.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Well, I finally finished my "Project" TS-820S.
> > It turned out Great. It functions Perfectly with 120 watts Output but
> > I did have to repaint the case (With the Original Kenwood Color). I
> > must say, I am very happy wih how it all turned out.
> > I am Now going to sell it, As I just purchased another TS-820 that I
> > am Restoring.
> > Here is a Picture of my Finished Trio TS-820S
> > http://www.n6wk.com/kenwood/820S/DSCF0015.JPG
> > I'm pretty Proud of how it turned out.
> >
> > 73,
> > Gordon
> > N6WK
> >

> > Now I am looking for a TS-830S that is NON working to refurbish also !
> >
>

8029. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 13:11:37 UTC
From: Bill Leahy
Topic: 8011 Message: 8029

Gordon, thanks. Nice scan.

I have copied it to our FTP server RUBE, if you don' t mind.

All about RUBE, the Ham Radio FTP Server at:

www.groups.yahoo.com/groups/hamftp/

Yahoo groups has been clunky and slow, or inaccessible lately. Be patient.

If it doesn't work for you let me know direct.

bill K0ZL

On 6/20/06, N6WK <n6wk@...> wrote:
>
> Bill,
> Go to my website and download the speaker service manual and what ever
> else you need.
> http://www.n6wk.com/kenwood/
>
> 73,
> Gordon
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

8030. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 18:31:35 UTC
From: dave@zievid.com
Topic: 8011 Message: 8030

Thanks for cleaning it up Bill - I agree that a bunch of images is not very convenient. Also, considering my day job is a programmer at Adobe (but not on Acrobat) I should have done that myself, but I had to get to dinner.

73,
- Dave
W6OT

> Thanks Dave!
>
> First off, I have a real problem with manuals distributed as a series of
> GIFs or JPGs... you unzip them, and it clogs the platter with scads of
> files, and you can't tell what you are looking for until you methodically
> page through them, one image at a time...
>
> So, I took this download, and brought it into one .pdf! Now you can have
> just one file, open it up, and methodically page thru it, one page at a
> time, looking for what you need! hi... but at least it's one file.
>
> It will be on RUBE and on the yahoo group files page, if and when yahoo
> groups comes back up.
>
> bill K0ZL
>
>
> On 6/20/06, Dave <dave@...> wrote:
>>
>> I guess I should read my email before dragging out the scanner - in
>> any
>>
>> case, there's another one available at
>> http://www.zievid.com/W6OT/SP-820ServiceManual.zip
>>
>> - Dave
>> W6OT
>>
>>
>> N6WK wrote:
>> >
>> > Bill,
>> > Go to my website and download the speaker service manual and what ever
>> > else you need.
>> > http://www.n6wk.com/kenwood/ <http://www.n6wk.com/kenwood/>
>>

>> >
>> > 73,
>> > Gordon
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>>
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>

8031. Re: [TS-520_820_530_830] New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 16:21:21 UTC
From: n9wb
Topic: 8022 Message: 8031

Looks like you got the olde Kenwood bug! Walt N9WB
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, June 21, 2006 12:15 AM
Subject: [TS-520_820_530_830] New TS-820 Project

Hi All,
Well I started on my newest TS-820 Project last evening. I received it, Unpacked it and looked it over. First thing I noticed was the VFO plug was missing. So, I made a jumper and jumped pins 8 and 9.
I hooked up my Transformer saver (Thanks to Walt N9WB) and plugged it all in.I hooked up my 20 meter beam, and set the controls at 14 MHZ. I then turned it on... Whoa,,,It was receiving, But the Digital display was off by over 500 KC's. Ok. Turned the rig off and removed the Digital Display control unit. Took the covers off, removed the boards and checked for bad solder joints.... Nothing found, So I sprayed all the connectors and pins with DE-Oxit 5, then reassembled it. Hooked everything back up, plugged it all back in and turned it on... WOW, 14.200 was right on the money.. checked WWV and it also was dead on !
I noticed that the VFO was jumping around as I tuned so, I turned the rig back off, removed the VFO and sprayed the Wiper on the VFO with DE-Oxit 5. Reassembled and fired the rig back up. The VFO is Now clean and smooth. At this pont, I'm a pretty happy guy.
So Today I removed the Transformer saver and decided to try the Transmit part out. Switched my Antenna to Dummy Load. Went to 20 meters, placed it in USB and checked for grid Current..Hmmmm only 40 MA, so I adjusted it to 60 Ma. Then I placed it in tune and adjusted for Maximum ALC with the Drive Control... Looks Good.
Switched to RF and adjusted the plate and Load controls for Maximum output. I quickly noticed that Maximum output and the Plate Dip did Not correspond, So I switched to 21.3 and Neutralized the Finals with the SG switch OFF!
Turned the SG switch back on and checked all bands. My Maximum output now matches my Plate current Dip. Ok.. Lets put this little girl on the Air.
I went to 20 meters as that is the best band for the Evening here to work DX. I heard Ly80Z on 14.177.. Ok, I'll give him a call. ooops, No output.hmmmm OH, Ok, The mike drive is way too low. So I call again and adjust the mic gain up until it stays within the ALC range..
Cool, LY80Z comes back and says .. N6WK good Signal..You are 5-8 here in Lithuania. I gave him a 5-9 and we both moved on. I then heard a DL6LW on 14.177 so I thought, hey , I'll turn the processor on and give him a call. Dang, First call he came right back to me. Gave me a

nice 5-9 signal with "Nice Audio" attached. I was VERY happy at this point. I also gave him an S9 as conditions were good here.
Next I came cross a pileup on 14.245... I listened and heard a G7 asking for stateside, what to heck, I'll give him a shout, First call, he came right back, said his call was G7GNM and I was a SOLID s-8 into Hull England and sounded Very Good. I also gave him an S-8 and we said Our Good Byes.
So, I guess this Newest little TS-820 with Digital Display is Ready to Play.
Now I am looking for an 830 that is NON working to play with.

73,
Gordon

[Non-text portions of this message have been removed]

8032. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 15:31:35 UTC
From: Ellen R
Topic: 8022 Message: 8032

Gordon,

Keep on playing with the TS-820 series, and you'll become as addicted to them as I am. Byt the way, is it a major hassle to get the VFO out? Did you just unbolt it from the front panel, and pull it out?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi All,
> Well I started on my newest TS-820 Project last evening. I received
> it, Unpacked it and looked it over. First thing I noticed was the
VFO
> plug was missing. So, I made a jumper and jumped pins 8 and 9.
> I hooked up my Transformer saver (Thanks to Walt N9WB) and plugged
it
> all in.I hooked up my 20 meter beam, and set the controls at 14 MHZ.
> I then turned it on... Whoa,,,It was receiving, But the Digital
> display was off by over 500 KC's. Ok. Turned the rig off and removed
> the Digital Display control unit. Took the covers off, removed the
> boards and checked for bad solder joints.... Nothing found, So I
> sprayed all the connectors and pins with DE-Oxit 5, then reassembled
> it. Hooked everything back up, plugged it all back in and turned it
> on... WOW, 14.200 was right on the money.. checked WWV and it also
was
> dead on !
> I noticed that the VFO was jumping around as I tuned so, I turned
the
> rig back off, removed the VFO and sprayed the Wiper on the VFO with
> DE-Oxit 5. Reassembled and fired the rig back up. The VFO is Now
clean
> and smooth. At this pont, I'm a pretty happy guy.
> So Today I removed the Transformer saver and decided to try the
> Transmit part out. Switched my Antenna to Dummy Load. Went to 20
> meters, placed it in USB and checked for grid Current..Hmmmm only 40
> MA, so I adjusted it to 60 Ma. Then I placed it in tune and adjusted
> for Maximum ALC with the Drive Control... Looks Good.
> Switched to RF and adjusted the plate and Load controls for Maximum
> output. I quickly noticed that Maximum output and the Plate Dip did
> Not correspond, So I switched to 21.3 and Neutralized the Finals
with
> the SG switch OFF!
> Turned the SG switch back on and checked all bands. My Maximum
output
> now matches my Plate current Dip. Ok.. Lets put this little girl on

> the Air.
> I went to 20 meters as that is the best band for the Evening here to
> work DX. I heard Ly80Z on 14.177.. Ok, I'll give him a call. ooops,
> No output.hmmmm OH, Ok, The mike drive is way too low. So I call
again
> and adjust the mic gain up until it stays within the ALC range..
> Cool, LY80Z comes back and says .. N6WK good Signal..You are 5-8
here
> in Lithuania. I gave him a 5-9 and we both moved on. I then heard a
> DL6LW on 14.177 so I thought, hey , I'll turn the processor on and
> give him a call. Dang, First call he came right back to me. Gave
me a
> nice 5-9 signal with "Nice Audio" attached. I was VERY happy at this
> point. I also gave him an S9 as conditions were good here.
> Next I came cross a pileup on 14.245... I listened and heard a G7
> asking for stateside, what to heck, I'll give him a shout, First
call,
> he came right back, said his call was G7GNM and I was a SOLID s-8
into
> Hull England and sounded Very Good. I also gave him an S-8 and we
said
> Our Good Byes.
> So, I guess this Newest little TS-820 with Digital Display is Ready
to
> Play.
> Now I am looking for an 830 that is NON working to play with.
>
> 73,
> Gordon
>

8033. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 22:13:02 UTC
From: Gordon
Topic: 8022 Message: 8033

Yes Walt,
I am afraid so ! But it is very rewarding to ressurect one from the
dead :-)

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Looks like you got the olde Kenwood bug! Walt N9WB
>

8034. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 22:17:52 UTC
From: mhherf
Topic: 8022 Message: 8034

Gordon, welcome to the '820 family. DE-oxit is your best friend [;)]
I've had my '820 for 29 years -bought it new. The S2001As are original
and I can still measure 100W out on the Bird on 10M.

Back to the VFO problem: Were you able to access the wiper by removing
the VFO shield, or did you remove the VFO assembly through the front
panel? I've recently developed the jumping/intermittant VFO problem
between 300 - 350khz on the dial.

73,

Mitch VE2BAB

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi All,
> Well I started on my newest TS-820 Project last evening. I received
> it, Unpacked it and looked it over. First thing I noticed was the VFO
> plug was missing. So, I made a jumper and jumped pins 8 and 9.
> I hooked up my Transformer saver (Thanks to Walt N9WB) and plugged it
> all in.I hooked up my 20 meter beam, and set the controls at 14 MHZ.
> I then turned it on... Whoa,,,It was receiving, But the Digital
> display was off by over 500 KC's. Ok. Turned the rig off and removed
> the Digital Display control unit. Took the covers off, removed the
> boards and checked for bad solder joints.... Nothing found, So I
> sprayed all the connectors and pins with DE-Oxit 5, then reassembled
> it. Hooked everything back up, plugged it all back in and turned it
> on... WOW, 14.200 was right on the money.. checked WWV and it also was
> dead on !
> I noticed that the VFO was jumping around as I tuned so, I turned the
> rig back off, removed the VFO and sprayed the Wiper on the VFO with
> DE-Oxit 5. Reassembled and fired the rig back up. The VFO is Now clean
> and smooth. At this pont, I'm a pretty happy guy.
> So Today I removed the Transformer saver and decided to try the
> Transmit part out. Switched my Antenna to Dummy Load. Went to 20
> meters, placed it in USB and checked for grid Current..Hmmmm only 40
> MA, so I adjusted it to 60 Ma. Then I placed it in tune and adjusted
> for Maximum ALC with the Drive Control... Looks Good.
> Switched to RF and adjusted the plate and Load controls for Maximum
> output. I quickly noticed that Maximum output and the Plate Dip did
> Not correspond, So I switched to 21.3 and Neutralized the Finals with
> the SG switch OFF!
> Turned the SG switch back on and checked all bands. My Maximum output
> now matches my Plate current Dip. Ok.. Lets put this little girl on
> the Air.
> I went to 20 meters as that is the best band for the Evening here to

> work DX. I heard Ly80Z on 14.177.. Ok, I'll give him a call. ooops,
> No output.hmmmm OH, Ok, The mike drive is way too low. So I call again
> and adjust the mic gain up until it stays within the ALC range..
> Cool, LY80Z comes back and says .. N6WK good Signal..You are 5-8 here
> in Lithuania. I gave him a 5-9 and we both moved on. I then heard a
> DL6LW on 14.177 so I thought, hey , I'll turn the processor on and
> give him a call. Dang, First call he came right back to me. Gave me a
> nice 5-9 signal with "Nice Audio" attached. I was VERY happy at this
> point. I also gave him an S9 as conditions were good here.
> Next I came cross a pileup on 14.245... I listened and heard a G7
> asking for stateside, what to heck, I'll give him a shout, First call,
> he came right back, said his call was G7GNM and I was a SOLID s-8 into
> Hull England and sounded Very Good. I also gave him an S-8 and we said
> Our Good Byes.
> So, I guess this Newest little TS-820 with Digital Display is Ready to
> Play.
> Now I am looking for an 830 that is NON working to play with.
>
> 73,
> Gordon
>

[Non-text portions of this message have been removed]

8036. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 22:14:19 UTC
From: Gordon
Topic: 8022 Message: 8036

Ellen,
There are two screws on the top front and two Screws on the bottom front. Remove the Front Knob and the Face plate for the VFO first. Disconnect the two cables, remove the 4 screws and carefully lift it up out. As you bring it up out, you will want to remove the screw holding the VFO Lamp in place. (I always forget that screw) hi hi.
Pretty simple.
I can remove one in less then 5 minutes including removing the Radio upper and lower covers. Not real hard, I'm just Careful!
To clean the wiper, you just have to remove the side cover on the VFO, no need to remove the whole housing!

gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Gordon,
>
> Keep on playing with the TS-820 series, and you'll become as addicted
> to them as I am. Byt the way, is it a major hassle to get the VFO
> out? Did you just unbolt it from the front panel, and pull it out?
>
> Ellen - AF9J
>

8037. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-21 22:48:22 UTC
From: Gordon
Topic: 8022 Message: 8037

Mitch, The VFO had to be removed, but it does NOT come out the front. It actually lifts rearward and up to get it out. Once it was out, I removed the rectangular panel on the Right side (from the front) and sprayed the Rear wiper. I alo added just ONE small drop of sewing machine oil on the front bearing while I was in there. Put the cover back on, reinstalled the VFO into the radio and turned it on to be sure I hadn't moved the rear Dial plate. Once I knew that was Ok, I put the small bezel panel back over the Dial, and installed the Knob. Total time was probably 15 minutes. HINT: place the screws in something to keep from loosing them as a couple a really small.

Maybe I will do a step by step booklet with pictures of each step. ....Hmmm, A new project !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "mhherf" <mhherf@...> wrote:
>
>
> Gordon, welcome to the '820 family. DE-oxit is your best friend [;)]
> I've had my '820 for 29 years -bought it new. The S2001As are original
> and I can still measure 100W out on the Bird on 10M.
>
> Back to the VFO problem: Were you able to access the wiper by removing
> the VFO shield, or did you remove the VFO assembly through the front
> panel? I've recently developed the jumping/intermittant VFO problem
> between 300 - 350khz on the dial.
>
> 73,
>
> Mitch VE2BAB
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi All,
> > Well I started on my newest TS-820 Project last evening. I received
> > it, Unpacked it and looked it over. First thing I noticed was the VFO
> > plug was missing. So, I made a jumper and jumped pins 8 and 9.
> > I hooked up my Transformer saver (Thanks to Walt N9WB) and plugged it
> > all in.I hooked up my 20 meter beam, and set the controls at 14 MHZ.
> > I then turned it on... Whoa,,,It was receiving, But the Digital
> > display was off by over 500 KC's. Ok. Turned the rig off and removed
> > the Digital Display control unit. Took the covers off, removed the
> > boards and checked for bad solder joints.... Nothing found, So I
> > sprayed all the connectors and pins with DE-Oxit 5, then reassembled

> > it. Hooked everything back up, plugged it all back in and turned it
> > on... WOW, 14.200 was right on the money.. checked WWV and it also was
> > dead on !
> > I noticed that the VFO was jumping around as I tuned so, I turned the
> > rig back off, removed the VFO and sprayed the Wiper on the VFO with
> > DE-Oxit 5. Reassembled and fired the rig back up. The VFO is Now clean
> > and smooth. At this pont, I'm a pretty happy guy.
> > So Today I removed the Transformer saver and decided to try the
> > Transmit part out. Switched my Antenna to Dummy Load. Went to 20
> > meters, placed it in USB and checked for grid Current..Hmmmm only 40
> > MA, so I adjusted it to 60 Ma. Then I placed it in tune and adjusted
> > for Maximum ALC with the Drive Control... Looks Good.
> > Switched to RF and adjusted the plate and Load controls for Maximum
> > output. I quickly noticed that Maximum output and the Plate Dip did
> > Not correspond, So I switched to 21.3 and Neutralized the Finals with
> > the SG switch OFF!
> > Turned the SG switch back on and checked all bands. My Maximum output
> > now matches my Plate current Dip. Ok.. Lets put this little girl on
> > the Air.
> > I went to 20 meters as that is the best band for the Evening here to
> > work DX. I heard Ly80Z on 14.177.. Ok, I'll give him a call. ooops,
> > No output.hmmmm OH, Ok, The mike drive is way too low. So I call again
> > and adjust the mic gain up until it stays within the ALC range..
> > Cool, LY80Z comes back and says .. N6WK good Signal..You are 5-8 here
> > in Lithuania. I gave him a 5-9 and we both moved on. I then heard a
> > DL6LW on 14.177 so I thought, hey , I'll turn the processor on and
> > give him a call. Dang, First call he came right back to me. Gave me a
> > nice 5-9 signal with "Nice Audio" attached. I was VERY happy at this
> > point. I also gave him an S9 as conditions were good here.
> > Next I came cross a pileup on 14.245... I listened and heard a G7
> > asking for stateside, what to heck, I'll give him a shout, First call,
> > he came right back, said his call was G7GNM and I was a SOLID s-8 into
> > Hull England and sounded Very Good. I also gave him an S-8 and we said
> > Our Good Byes.
> > So, I guess this Newest little TS-820 with Digital Display is Ready to
> > Play.
> > Now I am looking for an 830 that is NON working to play with.
> >
> > 73,
> > Gordon
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

8038. 6146B / 6146W

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 01:00:01 UTC
From: wb4mnk
Topic: 8038 Message: 8038

I have a TS-830S and have tried the 6146W and also have tried the 6146B. The difference I see is in neutralization of these tubes. When I neutralize the 6146B then check the power output with the plate dip they both happen at the same time like it should. When I neutralize the 6146W and then check the power output against the plate dip there is a varience of around 10 watts. Is there a way to correct this problem with the 6146W? Neutralization is being done on 28.5.

73
Art
WB4MNK

8039. Re: [TS-520_820_530_830] N4DH-BILL,KI0KM-BOB

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 01:52:22 UTC
From: Bill Richarz
Topic: 7993 Message: 8039

Hi Paul,

Got the relays and switch today. Thanks much,
I really appreciate it and thanks for the good
deal. Hope the license plate inspsires some
new hams there.

73 de Bill, N4DH

--- Paul <k8pg@...> wrote:

> HELLO BILL AND BOB:
> I SENT THE PARTS OUT TO YOU TODAY,I ONLY GET TO
> TOWN 1 TIME A MO. OR
> SO,I LIVE WAY OUT IN THE BOONIES HR AND ITS 17
> MILES TO THE POST OFFICE
> I SENT BOTH OF YOUS A FEW LITTLE OTHER GOODIES FOR
> THE 520-820 RIGS,
> I HAVE A FEW MORE PARTS BUT NEED TO FIND THEM IN
> THE WORKSHOP,ILL LOOK
> FOR THEM NEXT MO. OR SO IAM BUSY GUIDING TROUT
> FISHERMEN NOW.
> TAKE CARE,73/GL/DX.
> DE-K8PG-PAUL-CW LIVES
>
>
>
>
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8040. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 03:05:57 UTC
From: Ellen R
Topic: 8022 Message: 8040

Hmmmmmm,

Thanks for the info. I was hoping that was the case, rather than having to pull the entire front panel off. Frankly the VFO is behaving itself (especially after I reset VR4 a couple of months ago), so I'll leave it alone. But still, that's good info to know.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ellen,
> There are two screws on the top front and two Screws on the bottom
> front. Remove the Front Knob and the Face plate for the VFO first.
> Disconnect the two cables, remove the 4 screws and carefully lift it
> up out. As you bring it up out, you will want to remove the screw
> holding the VFO Lamp in place. (I always forget that screw) hi hi.
> Pretty simple.
> I can remove one in less then 5 minutes including removing the
Radio
> upper and lower covers. Not real hard, I'm just Careful!
> To clean the wiper, you just have to remove the side cover on the
VFO,
> no need to remove the whole housing!
>
> gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Gordon,
> >
> > Keep on playing with the TS-820 series, and you'll become as
addicted
> > to them as I am. Byt the way, is it a major hassle to get the
VFO
> > out? Did you just unbolt it from the front panel, and pull it
out?
> >
> > Ellen - AF9J
> >
>

8041. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 05:58:37 UTC
From: Gordon
Topic: 8022 Message: 8041

Ellen,
Go to http://www.n6wk.com/kenwood/TS-820-VFO--servicing.pdf and I
have outlined the Complete procedure for removing and cleaning the VFO
with pictures.
It is about 12 megs, but worth the download in my opinion.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hmmmmmm,
>
> Thanks for the info. I was hoping that was the case, rather than
> having to pull the entire front panel off. Frankly the VFO is
> behaving itself (especially after I reset VR4 a couple of months
> ago), so I'll leave it alone. But still, that's good info to know.
>
> 73,
> Ellen - AF9J
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ellen,
> > There are two screws on the top front and two Screws on the bottom
> > front. Remove the Front Knob and the Face plate for the VFO first.
> > Disconnect the two cables, remove the 4 screws and carefully lift it
> > up out. As you bring it up out, you will want to remove the screw
> > holding the VFO Lamp in place. (I always forget that screw) hi hi.
> > Pretty simple.
> > I can remove one in less then 5 minutes including removing the
> Radio
> > upper and lower covers. Not real hard, I'm just Careful!
> > To clean the wiper, you just have to remove the side cover on the
> VFO,
> > no need to remove the whole housing!
> >
> > gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Gordon,

> > >
> > > Keep on playing with the TS-820 series, and you'll become as
> addicted
> > > to them as I am. Byt the way, is it a major hassle to get the
> VFO
> > > out? Did you just unbolt it from the front panel, and pull it
> out?
> > >
> > > Ellen - AF9J
> > >
> >
>

8042. Re: [TS-520_820_530_830] Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 06:08:15 UTC
From: OneG @ The Taj Mahal
Topic: 8022 Message: 8042

Gordon wrote:
> Ellen,
> Go to http://www.n6wk.com/kenwood/TS-820-VFO--servicing.pdf and I
> have outlined the Complete procedure for removing and cleaning the VFO
> with pictures.
> It is about 12 megs, but worth the download in my opinion.
> 73,
> Gordon
>

WOW thats GREAT~ Excellent & Cool...

Wish I had the same thing for my TS~520s.

Geno

K7Gno

8043. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 08:00:57 UTC
From: n9wb
Topic: 8011 Message: 8043

It has a passive EQ circuit in it. Walt
----- Original Message -----
From: OneG @ The Taj Mahal
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 20, 2006 3:50 PM
Subject: Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Bill Scurlock wrote:
> Since I still can't find schematic information on the SP-820, and no one responded to my original request for help, I'm re-sending my help request. Thanks.
>
> 73, Bill, K5GCW

Hey Bill:::

Maybe I am Naive but is there really more than the standard 2 wires
going into this speaker?

I guess I have lots to LEARN :)

K7GNO

Geno
Middleton Id...

[Non-text portions of this message have been removed]

8044. Re: Fw: [TS-520_820_530_830] SP-820 Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 13:11:12 UTC
From: Bill Leahy
Topic: 8011 Message: 8044

Thanks Dave,

Was posting that as part humor, didn't mean to say anything.

Thanks for taking the time to scan those.

Bill

On 6/21/06, dave@... <dave@...> wrote:
>
>
>
>
>
>
>
> Thanks for cleaning it up Bill - I agree that a bunch of images is not
> very convenient. Also, considering my day job is a programmer at Adobe
> (but not on Acrobat) I should have done that myself, but I had to get to
> dinner.
>
> 73,
> - Dave
> W6OT

8045. Heil Goldline GM-4 Microphone***REVISED***

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 14:27:16 UTC
From: Bert Morton
Topic: 8023 Message: 8045

I have for sale a Heil Goldline dual element microphone Model GM-4 and accessories.

All are in like new condition and have had very little use.

GM-4 Microphone with zipper case. Asking $95 plus actual shipping from 05773 ***SOLD***

Cable for Kenwood TS-570,870,2000 etc. Asking $15 plus actual shipping from

05773 ***Still Available***

Cable for Kenwood TS-520, TS-820 etc. Asking $15 plus actual shipping from

05773***Still Available***

Black crinkle finish Heil desk stand base. Asking $25 plus actual shipping from 05773 ***SOLD***

Thanks for looking.

73,

Bert W1DFU

8046. TS-520 AGC switch impacted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 20:03:41 UTC
From: cybercat321
Topic: 8046 Message: 8046

Hello Group!

As I anticipate another block of "free" time this weekend, the next item to deal with on the restoration of my TS-520 is the impacted (shipping damage) AGC switch.

Yep! It's pushed in (ALL the way!) and is loose inside the cabinet, suspended (I think) by it's connecting wires.

Doesn't seem like I can just pull it out the front, so it looks like disassembly is in order.

Is there a "simple" way to do this? Any tips or tricks from those who have done this before? Any things to watch out for and/or avoid?

Thanx in advance

- Bill H. / va3hwa

8047. Re: New TS-820 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-22 20:47:02 UTC
From: Ellen R
Topic: 8022 Message: 8047

Thank you!! That procedure comes in very handy. It also allevaites
any fears that I had, that I would have to pull the entire front
panel off (I have no desire [unless I absoloutly have to] to screw
with the chain drives for tuning nechanisms).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ellen,
> Go to http://www.n6wk.com/kenwood/TS-820-VFO--servicing.pdf and
I
> have outlined the Complete procedure for removing and cleaning the
VFO
> with pictures.
> It is about 12 megs, but worth the download in my opinion.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hmmmmmm,
> >
> > Thanks for the info. I was hoping that was the case, rather than
> > having to pull the entire front panel off. Frankly the VFO is
> > behaving itself (especially after I reset VR4 a couple of months
> > ago), so I'll leave it alone. But still, that's good info to
know.
> >
> > 73,
> > Ellen - AF9J
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Ellen,
> > > There are two screws on the top front and two Screws on the
bottom
> > > front. Remove the Front Knob and the Face plate for the VFO
first.
> > > Disconnect the two cables, remove the 4 screws and carefully
lift it
> > > up out. As you bring it up out, you will want to remove the

screw
> > > holding the VFO Lamp in place. (I always forget that screw) hi
hi.
> > > Pretty simple.
> > > I can remove one in less then 5 minutes including removing
the
> > Radio
> > > upper and lower covers. Not real hard, I'm just Careful!
> > > To clean the wiper, you just have to remove the side cover on
the
> > VFO,
> > > no need to remove the whole housing!
> > >
> > > gordon
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Gordon,
> > > >
> > > > Keep on playing with the TS-820 series, and you'll become as
> > addicted
> > > > to them as I am. Byt the way, is it a major hassle to get
the
> > VFO
> > > > out? Did you just unbolt it from the front panel, and pull
it
> > out?
> > > >
> > > > Ellen - AF9J
> > > >
> > >
> > >
>

8048. Re: [TS-520_820_530_830] TS-520 AGC switch impacted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-23 10:58:08 UTC
From: n9wb
Topic: 8046 Message: 8048

Look for contact parts inside the radio. the tangs that hold it together may have been bent allowing the switch to disassemble itself. There may be some contact parts loose inside the rig and possibly a spring. If you can find all of the parts you may be able to reassemble the switch.

----- Original Message -----
From: cybercat321
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, June 22, 2006 3:03 PM
Subject: [TS-520_820_530_830] TS-520 AGC switch impacted

Hello Group!

As I anticipate another block of "free" time this weekend, the next item to deal with on the restoration of my TS-520 is the impacted (shipping damage) AGC switch.

Yep! It's pushed in (ALL the way!) and is loose inside the cabinet, suspended (I think) by it's connecting wires.

Doesn't seem like I can just pull it out the front, so it looks like disassembly is in order.

Is there a "simple" way to do this? Any tips or tricks from those who have done this before? Any things to watch out for and/or avoid?

Thanx in advance

- Bill H. / va3hwa

[Non-text portions of this message have been removed]

8049. Age of TS-520 from serial number?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-24 18:37:54 UTC
From: kg6pfh
Topic: 8049 Message: 8049

Hi,

Recently I bought an old TS-520 from local hamfest. Is there a way to ID the manufactured date from the serial numbers? Are there web sites for Kenwood that lists model numbers and quantity produced for hybrids?

Thank you

8050. Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-24 18:08:31 UTC
From: soldonparadise
Topic: 8050 Message: 8050

I am new to the group and wanted to introduce myself. I have been absent from ham radio for many years and recently have had a renewed interest in the hobby. I researched all of the latest equipment and nothing moves me like the rigs from my early days. I have decided to try and find an abosolute mint TS-830S and build my station around it. While I wait to find the perfect unit, I will continue to follow this forum to learn about the operation/restoration of my "new" radio. Thank you in advance for your support, and the wonderful wealth of information provided on this forum.

Aloha from Maui Hawaii.

A Hui Ho

Mike WA7YET

8051. Many misc small accessories for Kenwood rigs FS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-24 23:16:41 UTC
From: Ken Simpson, W8EK
Topic: 8051 Message: 8051

For Sale:

Misc. small accessory items for Kenwood rigs

Kenwood TU-4 C
Subaudible (PL) encoder for Kenwood TW-4000
This unit provides separate tones for the VHF (2 m) portion
and the UHF (440 MHz) portion. It plugs in to the TW-4000
to provide the tones. No adjustments are normally needed.
This one is in its original box with paper work, hardware, etc.
$65

Small audio plug - round 4 pin with " Y " shaped pin arrangement
This plug was used on many of the Kenwood rigs in the 1970's
to feed auxiliary audio (touchtone pads, etc.) into the rig. It is
about 1/4 inch in diameter and has the 4 pins arranged so they
look like a " Y ". As I recall, this was used on many of the multi
mode rigs (TR-9000, TR-9130, etc.), dual banders (TW-4000,
TW-4100, etc.), and maybe other rigs like the TR-2200. I was
once told that this was "unobtanium", but I found one. $10

Pack of accessory plugs for HF rigs
This is an original packet of accessory plugs, as found with many
of the Kenwood HF rigs. I think this one came from a TS-440, but
it could have been any number of other HF rigs. It consists of a 7
pin DIIN plug, an 8 pin DIN plug, a fuse, a speaker plug, and a
"Calibrator cable." This is original Kenwood in the original bag,
and has never been used. I don't think it was even opened. $12

Battery charge cable for Kenwood TR-2400 HT
This is an adapter that permits one to charge the battery of the
Kenwood TR-2400, 2 meter HT, outside of the HT itself. Usually,
one must have the battery inside the HT, but this lets you charge
a second battery outside of the HT. The original charger is used.
It is in good shape, and works fine. $3

Kenwood PB-21 battery pack for TH-21 / 31 / 41 series HTs
This battery pack does not hold a charge well. Physically it is fine,
but it needs a new "insert" in it. $15

Wrist strap for TH-21 / 31 / 41 and likely other HTs $ 2

Antenna adapter for Kenwood TH-21 / 31 / 41 HTs
This adapts the antenna connector found on these HTs to a standard
BNC connector. $3

Special Rubber Duck antennas for Kenwood TH-21 series
HTs with the threaded connector
Aftermarket stubby, 3.3 inches long $10
Kenwood RA-8 Stubby, 4 inches long $12
Kenwood regular, 6.6 inches long $10

440 MHz stubby rubber duck antenna with BNC connector
This stubby 3 inch long antenna can be used on any of the 440 MHz
HTs that use a BNC connector. $10

Antenna adapter to fit the BNC connector on the HT and provide
an SO-239 connector that will permit a PL-259 to be attached. $5

Kenwood EP-1 ear phone
Used on many Kenwood HTs. Like new. $4

Service manual for Kenwood TR-2600 HT - $10

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@... or W8EK@...
Voice Phone (352) 732-8400

8052. TS-520 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 11:51:35 UTC
From: K4MT
Topic: 8052 Message: 8052

I just went to auto paint store and had them computer match the cover paint. The match was perfect and I have just sprayed the covers. I was shocked how perfect they turned out.

I have a question for the group. The front of the 520 has a thin chrome or silver line. On mine the color has worn off and I need to repaint it. Has anyone figured out what that finish is ie Chrome, Silver etc? Any source for a paint that would match properly? On my VFO-520 it kooks rather thick like it might have been dipped.

8053. Re: [TS-520_820_530_830] TS-520 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 12:25:40 UTC
From: Charles Mortimer
Topic: 8052 Message: 8053

hi nip in to the art shop or one office supplier shops
and get yourself one of those silver marker pens medium size fiber nib tip
the use of these pens will give you more control on getting a straight line
than you would using a fine long hair brush the silver will tone down in
time to come now that line can make or brake the job
best of luck
Chas.vp8bgx
----- Original Message -----
From: "K4MT" <k4mt@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, June 25, 2006 7:51 PM
Subject: [TS-520_820_530_830] TS-520 Project

>I just went to auto paint store and had them computer match the cover
> paint. The match was perfect and I have just sprayed the covers. I
> was shocked how perfect they turned out.
>
> I have a question for the group. The front of the 520 has a thin
> chrome or silver line. On mine the color has worn off and I need to
> repaint it. Has anyone figured out what that finish is ie Chrome,
> Silver etc? Any source for a paint that would match properly? On my
> VFO-520 it kooks rather thick like it might have been dipped.
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

8054. Re: [TS-520_820_530_830] TS-520 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 12:30:23 UTC
From: Charles Mortimer
Topic: 8052 Message: 8054

all front panels were silk screened including the silver rim around the
radio
and lettering that's how they are all so exacting on the front panels
Chas.
----- Original Message -----
From: "K4MT" <k4mt@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, June 25, 2006 7:51 PM
Subject: [TS-520_820_530_830] TS-520 Project

>I just went to auto paint store and had them computer match the cover
> paint. The match was perfect and I have just sprayed the covers. I
> was shocked how perfect they turned out.
>
> I have a question for the group. The front of the 520 has a thin
> chrome or silver line. On mine the color has worn off and I need to
> repaint it. Has anyone figured out what that finish is ie Chrome,
> Silver etc? Any source for a paint that would match properly? On my
> VFO-520 it kooks rather thick like it might have been dipped.
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

8055. (no subject)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 12:33:01 UTC
From: Charles Mortimer
Topic: 8055 Message: 8055

all front panels were silk screened including the silver rim around the
radio
and lettering that's how they are all so exacting on the front panels
Chas.

[Non-text portions of this message have been removed]

8056. edge lining

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 12:43:28 UTC
From: Charles Mortimer
Topic: 8056 Message: 8056

hi nip into the art shop or office supplies shop
and get yourself one of those silver fiber tip marking pens the use of these pens will give you more control in lining that edge you will get more control than an long hair artist brush the silver will tone down in time
this lining can make or brake the front panel
best of luck Chas. vk6ycj

[Non-text portions of this message have been removed]

8057. RE: [TS-520_820_530_830] TS-520 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 11:56:24 UTC
From: Mark Junk
Topic: 8052 Message: 8057

I use a silver marker pen used for writing on windows of cars when you sell them. Looks great and applies easily..KC9HJO

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of K4MT
Sent: Sunday, June 25, 2006 7:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-520 Project

I just went to auto paint store and had them computer match the cover paint. The match was perfect and I have just sprayed the covers. I was shocked how perfect they turned out.

I have a question for the group. The front of the 520 has a thin chrome or silver line. On mine the color has worn off and I need to repaint it. Has anyone figured out what that finish is ie Chrome, Silver etc? Any source for a paint that would match properly? On my VFO-520 it kooks rather thick like it might have been dipped.

[Non-text portions of this message have been removed]

8058. Re: [TS-520_820_530_830]

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 12:45:57 UTC
From: Charles Mortimer
Topic: 8058 Message: 8058

> all front panels were silk screened including the silver rim around the
> radio
> and lettering that's how they are all so exacting on the front panels
> Chas.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

8059. Can I substitute a 12AV7 for a 12BY7 in my TS530SP ?? TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 13:36:05 UTC
From: Tim
Topic: 8059 Message: 8059

An old time ham friend now a sk told me that this tube can be used.
Is this fact or fiction?
TNX in advane
73's
Tim KD2OE

8060. Re: Can I substitute a 12AV7 for a 12BY7 in my TS530SP ?? TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 16:47:56 UTC
From: kg6pfh
Topic: 8059 Message: 8060

--- In TS-520_820_530_830@yahoogroups.com, "Tim" <kd2oe@...> wrote:
>
> An old time ham friend now a sk told me that this tube can be used.
> Is this fact or fiction?
> TNX in advane
> 73's
> Tim KD2OE
>

Its fiction.

12AV7 is a twin triode.
12BY7 is a power pentode designed primarily for use as the
video output amplifier in television receivers.

8061. Re: [TS-520_820_530_830] Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 19:42:27 UTC
From: n9wb
Topic: 8050 Message: 8061

Mike:
Welcome!
In my opinion, the TS-830 is one of the best rigs ever design from an electronic standpoint. It has some mechanical issues but these are easily overcome. These are mostly regarding the bandswitch, but these can be repaired and modified so to not re occur without obtaining another bandswitch. I think that you will love an 830. Very good receiver, especially with some INRAD filters which can easily be done a bit at a time.

Vy 73, Walt N9WB

----- Original Message -----
From: soldonparadise
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, June 24, 2006 1:08 PM
Subject: [TS-520_820_530_830] Aloha from Maui

I am new to the group and wanted to introduce myself. I have been absent from ham radio for many years and recently have had a renewed interest in the hobby. I researched all of the latest equipment and nothing moves me like the rigs from my early days. I have decided to try and find an abosolute mint TS-830S and build my station around it. While I wait to find the perfect unit, I will continue to follow this forum to learn about the operation/restoration of my "new" radio. Thank you in advance for your support, and the wonderful wealth of information provided on this forum.

Aloha from Maui Hawaii.

A Hui Ho

Mike WA7YET

[Non-text portions of this message have been removed]

8062. Re: [TS-520_820_530_830] Re: Can I substitute a 12AV7 for a 12BY7 in my TS530SP ?? TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 19:49:05 UTC
From: Tim Harrington
Topic: 8059 Message: 8062

Thanks. I appreciate the explanation.

73's
Tim kd2oe

kg6pfh <kg6pfh@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "Tim" <kd2oe@...> wrote:
>
> An old time ham friend now a sk told me that this tube can be used.
> Is this fact or fiction?
> TNX in advane
> 73's
> Tim KD2OE
>

Its fiction.

12AV7 is a twin triode.
12BY7 is a power pentode designed primarily for use as the
video output amplifier in television receivers.

Yahoo! Sports Fantasy Football ☐06 - Go with the leader. Start your league today!

[Non-text portions of this message have been removed]

8063. RE: [TS-520_820_530_830] Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-25 20:14:40 UTC
From: Michael Eddy
Topic: 8050 Message: 8063

Walt

Thanks for the kind welcome. I will know later today if I was successful in obtaining the TS-830. If I do, I may contact you again in regards to your knowledge of any mechanical issues. Secondly, I have already spoken with INRAD about the filters, which are readily available. None of the new equipment appeals to me like the stuff from my early days. None the less, if I can't come up with an 830 in near perfect condition, I may purchase a new TS-570D. Either way, I'm looking forward to returning to the hobby.

73 and Aloha from Maui

Mike WA7YET

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Sunday, June 25, 2006 9:42 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Aloha from Maui

Mike:
Welcome!
In my opinion, the TS-830 is one of the best rigs ever design from an electronic standpoint. It has some mechanical issues but these are easily overcome. These are mostly regarding the bandswitch, but these can be repaired and modified so to not re occur without obtaining another bandswitch. I think that you will love an 830. Very good receiver, especially with some INRAD filters which can easily be done a bit at a time.

Vy 73, Walt N9WB

----- Original Message -----
From: soldonparadise
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, June 24, 2006 1:08 PM
Subject: [TS-520_820_530_830] Aloha from Maui

I am new to the group and wanted to introduce myself. I have been absent from ham radio for many years and recently have had a renewed interest in the hobby. I researched all of the latest equipment and nothing moves me like the rigs from my early days. I have decided to try and find an abosolute mint TS-830S and build my station around it. While I wait to find the perfect unit, I will continue to follow this forum to learn about the operation/restoration of my "new" radio.

Thank you in advance for your support, and the wonderful wealth of information provided on this forum.

Aloha from Maui Hawaii.

A Hui Ho

Mike WA7YET

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8064. Re: [TS-520_820_530_830] Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 13:23:59 UTC
From: Bill Leahy
Topic: 8050 Message: 8064

Aloha, Mike!

Well if you find one that has a few problems but is unblemished, consider getting it and fixing the problems; non-smoker's rig, maybe broken bandswitch coupling, some of the other issues that are common to these things and are easily repaired; that will broaden your base of available radios and may save you at least the shipping cost.

You can go through the archives (got some free time? hi) and see what common things plague the 830 and then decide how "minty" you want your new rig to be and what things you could possibly accept and correct once it arrives.

73!

Bill K0ZL

On 6/24/06, soldonparadise <mikeddy@...> wrote:
>
> I am new to the group and wanted to introduce myself. I have been
> absent from ham radio for many years and recently have had a renewed
> interest in the hobby. I researched all of the latest equipment and
> nothing moves me like the rigs from my early days. I have decided to
> try and find an abosolute mint TS-830S and build my station around it.
> While I wait to find the perfect unit, I will continue to follow this
> forum to learn about the operation/restoration of my "new" radio.
> Thank you in advance for your support, and the wonderful wealth of
> information provided on this forum.
>
> Aloha from Maui Hawaii.
>
> A Hui Ho
>
> Mike WA7YET
>
>
>

[Non-text portions of this message have been removed]

8065. Re: Can I substitute a 12AV7 for a 12BY7 in my TS530SP ?? TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 14:59:35 UTC
From: w9dz
Topic: 8059 Message: 8065

A low cost sub for the 12BY7 is the 7054 which was designed for
mobile communications use. The only difference is the lack of a
center tap on the filament making it 12V only. I believe most of the
Kenwood rigs use 12V so it should work fine. Last time I checked
they were selling for about $3.50 each.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, Tim Harrington <kd2oe@...>
wrote:
>
> Thanks. I appreciate the explanation.
>
> 73's
> Tim kd2oe
>
> kg6pfh <kg6pfh@...> wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "Tim" <kd2oe@>
wrote:
> >
> > An old time ham friend now a sk told me that this tube can be
used.
> > Is this fact or fiction?
> > TNX in advane
> > 73's
> > Tim KD2OE
> >
>
> Its fiction.
>
> 12AV7 is a twin triode.
> 12BY7 is a power pentode designed primarily for use as the
> video output amplifier in television receivers.

8066. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 16:50:55 UTC
From: soldonparadise
Topic: 8050 Message: 8066

Bill

I did indeed find one. The pictures look absolutely mint and the unit is described as fully functional with no dirt, dust or smoke. Time to hit the archives and get ready to check it out!

Aloha

Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...> wrote:
>
> Aloha, Mike!
>
> Well if you find one that has a few problems but is unblemished, consider
> getting it and fixing the problems; non-smoker's rig, maybe broken
> bandswitch coupling, some of the other issues that are common to these
> things and are easily repaired; that will broaden your base of available
> radios and may save you at least the shipping cost.
>
> You can go through the archives (got some free time? hi) and see what common
> things plague the 830 and then decide how "minty" you want your new rig to
> be and what things you could possibly accept and correct once it arrives.
>
> 73!
>
> Bill K0ZL
>
>
> On 6/24/06, soldonparadise <mikeddy@...> wrote:
> >
> > I am new to the group and wanted to introduce myself. I have been
> > absent from ham radio for many years and recently have had a renewed
> > interest in the hobby. I researched all of the latest equipment and
> > nothing moves me like the rigs from my early days. I have decided to

> > try and find an abosolute mint TS-830S and build my station
around it.
> > While I wait to find the perfect unit, I will continue to follow
this
> > forum to learn about the operation/restoration of my "new" radio.
> > Thank you in advance for your support, and the wonderful wealth
of
> > information provided on this forum.
> >
> > Aloha from Maui Hawaii.
> >
> > A Hui Ho
> >
> > Mike WA7YET
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8067. Re: TS-520 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 17:32:06 UTC
From: Howard
Topic: 8052 Message: 8067

Hello K4MT,

I am pleased that you had such good luck with your paint matching.
Could you tell us what brand and type of paint they used?

I would like to duplicate your efforts.

73 deWA2AFD Howard

8068. re: Can I substitute a 12AV7 for a 12BY7 in my TS530SP ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 20:20:46 UTC
From: pjcoombs@frontiernet.net
Topic: 8068 Message: 8068

As someone has already pointed out, the 12AV7 is a different animal
than the 12BY7(A). The 12BY7(A) is a sharp-cutoff pentode. You
could try a 12BV7 or a 12DQ7. But if you find one of these, it will
most likely be marked with the 12BY7(A) designation as well. -jay, kb9wwq

8069. Re: [TS-520_820_530_830] re: Can I substitute a 12AV7 for a 12BY7 in my TS530SP ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 22:56:29 UTC
From: Tim Harrington
Topic: 8068 Message: 8069

TNX es 73s
Tim
kd2oe

pjcoombs@... wrote:
As someone has already pointed out, the 12AV7 is a different animal
than the 12BY7(A). The 12BY7(A) is a sharp-cutoff pentode. You
could try a 12BV7 or a 12DQ7. But if you find one of these, it will
most likely be marked with the 12BY7(A) designation as well. -jay, kb9wwq

---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8070. Re: [TS-520_820_530_830] Re: Can I substitute a 12AV7 for a 12BY7 in my TS530SP ?? TNX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-26 23:22:39 UTC
From: Tim Harrington
Topic: 8059 Message: 8070

TNX es 73's
Tim kd2oe

w9dz <w9dz@...> wrote:
A low cost sub for the 12BY7 is the 7054 which was designed for
mobile communications use. The only difference is the lack of a
center tap on the filament making it 12V only. I believe most of the
Kenwood rigs use 12V so it should work fine. Last time I checked
they were selling for about $3.50 each.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, Tim Harrington <kd2oe@...>
wrote:
>
> Thanks. I appreciate the explanation.
>
> 73's
> Tim kd2oe
>
> kg6pfh <kg6pfh@...> wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "Tim" <kd2oe@>
wrote:
> >
> > An old time ham friend now a sk told me that this tube can be
used.
> > Is this fact or fiction?
> > TNX in advane
> > 73's
> > Tim KD2OE
> >
>
> Its fiction.
>
> 12AV7 is a twin triode.
> 12BY7 is a power pentode designed primarily for use as the
> video output amplifier in television receivers.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

8071. Re: TS-520 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-27 00:54:13 UTC
From: K4MT
Topic: 8052 Message: 8071

I went to a local Dupont auto paint store. They have a reader they put on a good area of paint and it gives them the exact formula to mix to get the color. The guys I use are pros and they mix it to have the same amount of gloss and the color was amazing. I have a VFO-520S that had good paint on the case and I used it for them to scan. With the two pieces side by side I can not detect any color difference.

I painted the case with a auto paint refinishing gun Binks #7. It lays the paint on perfectly. For finishes that have a crackle textured look I have found that Krylon sells a textured paint. I have used that as a base coat and put finish on top on those type of cases.

--- In TS-520_820_530_830@yahoogroups.com, Howard <wa2afd@...> wrote:
>
> Hello K4MT,
>
> I am pleased that you had such good luck with your paint matching.
> Could you tell us what brand and type of paint they used?
>
> I would like to duplicate your efforts.
>
> 73 deWA2AFD Howard
>

8072. Re: [TS-520_820_530_830] Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-27 07:06:03 UTC
From: n9wb
Topic: 8050 Message: 8072

I purchased an INRAD model 80 for my TS 820. It is 2.8 kHz wide instead of 2.4. But it has an extra pole and sharper skirts. I purchased it so I could make the audio low end of my transmit roll off at 150 to 200 Hz instead of 400 Hz by moving the carrier point and not loose high end. But what I didn't expect is that it made a tremendous difference in my receive quality. It did not degrade my adjacent frequency rejection as I had expected. This filter has less bumps along it's curve and rolls sharply once it gets to the end. (sharper skirt ratio). I paid $45.00 for my TS-820. I believe that the $100.00 for the filter was the best money that I have ever spent in a long time.

My preferences may be different than many folks. I tried a 1.8 filter in a TS-820 many years ago and hated it. I found that the little bit of rejection it gave me was not worth the limited audio it caused. I have also found that on 80 and 160, storm crashes are more annoying at narrower bandwidths than wider ones. At wider bandwidths, the crashes are softer and far less nerve wracking.

If I had a TS-830, I would purchase the model 88 and 89 for it.

This is all about SSB, not CW.

Vy 73, Walt N9WB

----- Original Message -----
From: Michael Eddy
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, June 25, 2006 3:14 PM
Subject: RE: [TS-520_820_530_830] Aloha from Maui

Walt

Thanks for the kind welcome. I will know later today if I was successful in obtaining the TS-830. If I do, I may contact you again in regards to your knowledge of any mechanical issues. Secondly, I have already spoken with INRAD about the filters, which are readily available. None of the new equipment appeals to me like the stuff from my early days. None the less, if I can't come up with an 830 in near perfect condition, I may purchase a new TS-570D. Either way, I'm looking forward to returning to the hobby.

73 and Aloha from Maui

Mike WA7YET

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Sunday, June 25, 2006 9:42 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Aloha from Maui

Mike:
Welcome!
In my opinion, the TS-830 is one of the best rigs ever design from an electronic standpoint. It has some mechanical issues but these are easily overcome. These are mostly regarding the bandswitch, but these can be repaired and modified so to not re occur without obtaining another bandswitch. I think that you will love an 830. Very good receiver, especially with some INRAD filters which can easily be done a bit at a time.

Vy 73, Walt N9WB

----- Original Message -----
From: soldonparadise
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, June 24, 2006 1:08 PM
Subject: [TS-520_820_530_830] Aloha from Maui

I am new to the group and wanted to introduce myself. I have been absent from ham radio for many years and recently have had a renewed interest in the hobby. I researched all of the latest equipment and nothing moves me like the rigs from my early days. I have decided to try and find an abosolute mint TS-830S and build my station around it. While I wait to find the perfect unit, I will continue to follow this forum to learn about the operation/restoration of my "new" radio. Thank you in advance for your support, and the wonderful wealth of information provided on this forum.

Aloha from Maui Hawaii.

A Hui Ho

Mike WA7YET

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8073. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-27 06:37:45 UTC
From: soldonparadise
Topic: 8050 Message: 8073

Very good information Walt, thank you. When I spoke to INRAD, I specifically inquired about the direct replacements for the recommended pair described in the TS-830 operators manual (YG-455C & YK-88C), which ended up being the INRAD 98 & 99. Since I enjoy operating both SSB & CW, I am still undecided as to which filters would be the best. I may just wait and see which mode I end up using the most.

73 & Aloha Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I purchased an INRAD model 80 for my TS 820. It is 2.8 kHz wide instead of 2.4. But it has an extra pole and sharper skirts. I purchased it so I could make the audio low end of my transmit roll off at 150 to 200 Hz instead of 400 Hz by moving the carrier point and not loose high end. But what I didn't expect is that it made a tremendous difference in my receive quality. It did not degrade my adjacent frequency rejection as I had expected. This filter has less bumps along it's curve and rolls sharply once it gets to the end. (sharper skirt ratio). I paid $45.00 for my TS-820. I believe that the $100.00 for the filter was the best money that I have ever spent in a long time.
>
> My preferences may be different than many folks. I tried a 1.8 filter in a TS-820 many years ago and hated it. I found that the little bit of rejection it gave me was not worth the limited audio it caused. I have also found that on 80 and 160, storm crashes are more annoying at narrower bandwidths than wider ones. At wider bandwidths, the crashes are softer and far less nerve wracking.
>
> If I had a TS-830, I would purchase the model 88 and 89 for it.
>
> This is all about SSB, not CW.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: Michael Eddy
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, June 25, 2006 3:14 PM
> Subject: RE: [TS-520_820_530_830] Aloha from Maui
>
>

> Walt
>
> Thanks for the kind welcome. I will know later today if I was
successful in
> obtaining the TS-830. If I do, I may contact you again in
regards to your
> knowledge of any mechanical issues. Secondly, I have already
spoken with
> INRAD about the filters, which are readily available. None of
the new
> equipment appeals to me like the stuff from my early days. None
the less, if
> I can't come up with an 830 in near perfect condition, I may
purchase a new
> TS-570D. Either way, I'm looking forward to returning to the
hobby.
>
> 73 and Aloha from Maui
>
> Mike WA7YET
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
> Sent: Sunday, June 25, 2006 9:42 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Aloha from Maui
>
> Mike:
> Welcome!
> In my opinion, the TS-830 is one of the best rigs ever design
from an
> electronic standpoint. It has some mechanical issues but these
are easily
> overcome. These are mostly regarding the bandswitch, but these
can be
> repaired and modified so to not re occur without obtaining
another
> bandswitch. I think that you will love an 830. Very good
receiver,
> especially with some INRAD filters which can easily be done a
bit at a time.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: soldonparadise
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com

> Sent: Saturday, June 24, 2006 1:08 PM
> Subject: [TS-520_820_530_830] Aloha from Maui
>
> I am new to the group and wanted to introduce myself. I have
been
> absent from ham radio for many years and recently have had a
renewed
> interest in the hobby. I researched all of the latest equipment
and
> nothing moves me like the rigs from my early days. I have
decided to
> try and find an abosolute mint TS-830S and build my station
around it.
> While I wait to find the perfect unit, I will continue to follow
this
> forum to learn about the operation/restoration of my "new"
radio.
> Thank you in advance for your support, and the wonderful wealth
of
> information provided on this forum.
>
> Aloha from Maui Hawaii.
>
> A Hui Ho
>
> Mike WA7YET
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8074. Re: Aloha from Maui - INRAD filters for the TS-820 series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-27 16:34:24 UTC
From: Ellen R
Topic: 8050 Message: 8074

Hi Walt,

I know we've talked about this before. But I thought I'd ask again. Is the INRAD filter a mahjor improvement over the stock Kenwood filter? You know me, I'm always looking for ways to improve my baby.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I purchased an INRAD model 80 for my TS 820. It is 2.8 kHz wide instead of 2.4. But it has an extra pole and sharper skirts. I purchased it so I could make the audio low end of my transmit roll off at 150 to 200 Hz instead of 400 Hz by moving the carrier point and not loose high end. But what I didn't expect is that it made a tremendous difference in my receive quality. It did not degrade my adjacent frequency rejection as I had expected. This filter has less bumps along it's curve and rolls sharply once it gets to the end. (sharper skirt ratio). I paid $45.00 for my TS-820. I believe that the $100.00 for the filter was the best money that I have ever spent in a long time.
>
> My preferences may be different than many folks. I tried a 1.8 filter in a TS-820 many years ago and hated it. I found that the little bit of rejection it gave me was not worth the limited audio it caused. I have also found that on 80 and 160, storm crashes are more annoying at narrower bandwidths than wider ones. At wider bandwidths, the crashes are softer and far less nerve wracking.
>
> If I had a TS-830, I would purchase the model 88 and 89 for it.
>
> This is all about SSB, not CW.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: Michael Eddy
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, June 25, 2006 3:14 PM
> Subject: RE: [TS-520_820_530_830] Aloha from Maui
>
>
>
> Walt
>

> Thanks for the kind welcome. I will know later today if I was
successful in
> obtaining the TS-830. If I do, I may contact you again in regards
to your
> knowledge of any mechanical issues. Secondly, I have already
spoken with
> INRAD about the filters, which are readily available. None of the
new
> equipment appeals to me like the stuff from my early days. None
the less, if
> I can't come up with an 830 in near perfect condition, I may
purchase a new
> TS-570D. Either way, I'm looking forward to returning to the
hobby.
>
> 73 and Aloha from Maui
>
> Mike WA7YET
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
> Sent: Sunday, June 25, 2006 9:42 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Aloha from Maui
>
> Mike:
> Welcome!
> In my opinion, the TS-830 is one of the best rigs ever design
from an
> electronic standpoint. It has some mechanical issues but these
are easily
> overcome. These are mostly regarding the bandswitch, but these
can be
> repaired and modified so to not re occur without obtaining another
> bandswitch. I think that you will love an 830. Very good receiver,
> especially with some INRAD filters which can easily be done a bit
at a time.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: soldonparadise
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Saturday, June 24, 2006 1:08 PM
> Subject: [TS-520_820_530_830] Aloha from Maui
>
> I am new to the group and wanted to introduce myself. I have been

> absent from ham radio for many years and recently have had a
renewed
> interest in the hobby. I researched all of the latest equipment
and
> nothing moves me like the rigs from my early days. I have decided
to
> try and find an abosolute mint TS-830S and build my station
around it.
> While I wait to find the perfect unit, I will continue to follow
this
> forum to learn about the operation/restoration of my "new" radio.
> Thank you in advance for your support, and the wonderful wealth
of
> information provided on this forum.
>
> Aloha from Maui Hawaii.
>
> A Hui Ho
>
> Mike WA7YET
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8075. Re: [TS-520_820_530_830] Re: Aloha from Maui - INRAD filters for the TS-820 series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-27 20:19:46 UTC
From: n9wb
Topic: 8050 Message: 8075

Ellen:

To me it was worth every bit of spending $100.00 on a $45.00 radio. Now my priorities are different from a lot of people. First, I am mostly interested in SSB, although once in a very great while I work CW. I got my Extra when I had to pass 20 WPM before the FCC, but I don't enjoy CW much.

Having been involved in broadcasting and sound for some years, although not so much recently, bad sound really bothers me.
Now, I don't have a big rack of processing equipment, although I am sympathetic with those who wish to do so. Having worked with broadcast processing, using voice and music and multiple channels, I feel this is overkill for me. One voice, one mike at a time, no music, I believe my goals on Amateur Radio can be reached by simpler means like a home brew box like the W2IHY stuff.

I also do some PA work. I hate the sound of a bad PA system in stores and at sports events. I hate the way Letterman's staff mixes their guest bands. Paul Shaffer has it down pretty good, but the guest bands are awful, especially the mixing of the vocals.

I hate to use a cell phone, I don't have one. I prefer my Icom 2 AT over my newer 2 meter radios because the speaker is bigger. It does not sound like an overdriven ear plug.

Now that I have explained where I am coming from, and I understand that I may be a bit radical in this area, here is what the model 80 did for me.

1.8 kHz SSB sounds to me like I have wet cotton in my ears. 2.4 removes some of the cotton. 2.8 removed a bit more and allowed me to hear better, smoother lows.

My original intent was to extend the low frequency response on transmit. A stock TS-820 is about 6 dB down at 400 Hz. I tried changing the carrier oscillator frequency (carrier point) to move this 6 dB point to around 200 Hz. The loss in the high end was critical because the high end cut off is in a critical area for the presence range anyway. Originally, with a 2.4 kHz filter, the 6 dB down point at the top fell at around 2.8 kHz. Changing the carrier point dropped it to around 2.6 kHz. The change wasn't drastic and a typical tin ear person would never tell the difference but I didn't like it.

I figured that the model 80 would allow me to have better lows around 200 Hz instead of 400 and still have top end to about 2800 Hz regaining the presence. But actually, this filter offered even more advantages than I expected. This filter has a much sharper skirt ratio than the original filter because it has an extra pole.

I have noticed that when trying several different stock filters in these rigs that these stock filters vary slightly in their sound on receive. The INRAD has a smoother bandpass between the ends (less bumping) and I could notice the improved sound. I also found that with the carrier point set to pass 200 Hz that there was usable response up to 3 kHz on both transmit and receive.

I had one more surprise. I have noticed that all TS-820s I have used or worked on had a receive audio problem. This is one of those things that just bugs me and nobody else notices. It appears that the AGC does not attack fast enough and overshoots on the initial part of a SSB voice peak. It makes a very slight burst of tearing or distortion at the beginning of each syllable. I have not had the time to pursue this, but I felt that some stage in the IF was overloading during these peaks.

Because the INRAD filter has 6 poles, it has slightly more insertion loss than the original filter. This additional loss corrected the IF overload problem. Because of the noise floor, even on 10 meters, I did not notice any meaningful sensitivity loss due to this insertion loss. I maintain that the overall S/n ratio is slightly better probably due to the improved filter shape.

Another concern was increased adjacent frequency interference with the wider filter. While the window is indeed wider, when it closes it closes faster due to sharper skirts. I maintain that a lot of the adjacent channel problems are in the area where the original filter is 10 dB down. A strong 10 dB down signal can still be audible. While the INRAD filter brings the flat band pass closer to this unwanted signal, slightly farther out it rejects it say 20 dB instead of 10 dB so I believe that my overall situation has actually improved.

On transmit, even though I am slightly wider, I go away fast when I start rolling off so again, I believe my bandwidth at the 10 dB or 20 down point is less wide.

The filter is a direct installation. Usually I leave the filter very slightly (the width of 2 or 3 QSL cards) above the board so solder will not flow up from the pins to ground. You will have to readjust the carrier point and the carrier balance. If you get one, I'll give you some shortcuts and pointers.

I was not able to bring the low end down much farther than 200 Hz. Although this rig has a balanced modulator that suppresses the carrier, more suppression is needed. This is done with the filter skirt. The sharper skirt on the low end will buy more suppression allowing the bandpass to be moved down a bit, but if I go too far, I get inadequate carrier suppression and the carrier balance becomes very critical. It gets a little more touchy anyway but is workable and seems to stay put OK.

I also use a 6 or 8 inch round speaker in a wood enclosure, often with an open back. the wedge shaped DuKane speakers used in PA systems and the speakers used in classroom PA systems when we were in school seem to work for me. DuKane ceiling speakers also work if placed in a simple wooden box. Remove the 70V transformer and go directly to the speaker. Very wide fidelity speakers seem to pass unwanted noise, little ones are too pinched sounding.

Most Amateurs would not notice any of what I have explained above. Most people have a tin ear. Part of it is that they never took the time to train their ear. They never hear the air flowing through a sax, a cornet, or flute. They never hear the fine ornamentation in the strings of stringed instruments. They would never notice that a JT-30 ceramic mike will sound better than a SM-58 on a harp.

I understand from your web site that you are a musician. I bet if you got it adjusted properly, you would tell a difference.

There is another mod where the diodes in the balanced modulators are replaced with Schokey (I probably spelled that wrong) diodes. This is supposed to reduce distortion in the balanced modulator and product detector.

I have the diodes but have not tried that yet.

Vy 73, Walt N9WB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 27, 2006 11:34 AM
Subject: [TS-520_820_530_830] Re: Aloha from Maui - INRAD filters for the TS-820 series

Hi Walt,

I know we've talked about this before. But I thought I'd ask again.
Is the INRAD filter a mahjor improvement over the stock Kenwood
filter? You know me, I'm always looking for ways to improve my baby.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I purchased an INRAD model 80 for my TS 820. It is 2.8 kHz wide
instead of 2.4. But it has an extra pole and sharper skirts. I
purchased it so I could make the audio low end of my transmit roll
off at 150 to 200 Hz instead of 400 Hz by moving the carrier point
and not loose high end. But what I didn't expect is that it made a
tremendous difference in my receive quality. It did not degrade my
adjacent frequency rejection as I had expected. This filter has less
bumps along it's curve and rolls sharply once it gets to the end.
(sharper skirt ratio). I paid $45.00 for my TS-820. I believe that
the $100.00 for the filter was the best money that I have ever spent
in a long time.
>
> My preferences may be different than many folks. I tried a 1.8
filter in a TS-820 many years ago and hated it. I found that the
little bit of rejection it gave me was not worth the limited audio it
caused. I have also found that on 80 and 160, storm crashes are more
annoying at narrower bandwidths than wider ones. At wider bandwidths,
the crashes are softer and far less nerve wracking.
>
> If I had a TS-830, I would purchase the model 88 and 89 for it.
>
> This is all about SSB, not CW.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: Michael Eddy

> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, June 25, 2006 3:14 PM
> Subject: RE: [TS-520_820_530_830] Aloha from Maui
>
>
> Walt
>
> Thanks for the kind welcome. I will know later today if I was
successful in
> obtaining the TS-830. If I do, I may contact you again in regards
to your
> knowledge of any mechanical issues. Secondly, I have already
spoken with
> INRAD about the filters, which are readily available. None of the
new
> equipment appeals to me like the stuff from my early days. None
the less, if
> I can't come up with an 830 in near perfect condition, I may
purchase a new
> TS-570D. Either way, I'm looking forward to returning to the
hobby.
>
> 73 and Aloha from Maui
>
> Mike WA7YET
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
> Sent: Sunday, June 25, 2006 9:42 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Aloha from Maui
>
> Mike:
> Welcome!
> In my opinion, the TS-830 is one of the best rigs ever design
from an
> electronic standpoint. It has some mechanical issues but these
are easily
> overcome. These are mostly regarding the bandswitch, but these
can be
> repaired and modified so to not re occur without obtaining another
> bandswitch. I think that you will love an 830. Very good receiver,
> especially with some INRAD filters which can easily be done a bit
at a time.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----

> From: soldonparadise
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Saturday, June 24, 2006 1:08 PM
> Subject: [TS-520_820_530_830] Aloha from Maui
>
> I am new to the group and wanted to introduce myself. I have been
> absent from ham radio for many years and recently have had a
renewed
> interest in the hobby. I researched all of the latest equipment
and
> nothing moves me like the rigs from my early days. I have decided
to
> try and find an abosolute mint TS-830S and build my station
around it.
> While I wait to find the perfect unit, I will continue to follow
this
> forum to learn about the operation/restoration of my "new" radio.
> Thank you in advance for your support, and the wonderful wealth
of
> information provided on this forum.
>
> Aloha from Maui Hawaii.
>
> A Hui Ho
>
> Mike WA7YET
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8076. Re: [TS-520_820_530_830] Re: Aloha from Maui - INRAD filters for the TS-820 series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-27 23:53:28 UTC
From: Bill Richarz
Topic: 8050 Message: 8076

Isn't that filter a model 88 rather than 80?
I didn't see a model 80 listed on their web page.

I would like to try that filter myself on my TS-820S
so would like to know if the 88 is the correct one
rather than a model 80.

Tnx, 73 de Bill, N4DH

--- n9wb <n9wb@...> wrote:

> Ellen:
>
> To me it was worth every bit of spending $100.00 on
> a $45.00 radio. Now my priorities are different from
> a lot of people. First, I am mostly interested in
> SSB, although once in a very great while I work CW.
> I got my Extra when I had to pass 20 WPM before the
> FCC, but I don't enjoy CW much.
>
> Having been involved in broadcasting and sound for
> some years, although not so much recently, bad sound
> really bothers me.
> Now, I don't have a big rack of processing
> equipment, although I am sympathetic with those who
> wish to do so. Having worked with broadcast
> processing, using voice and music and multiple
> channels, I feel this is overkill for me. One
> voice, one mike at a time, no music, I believe my
> goals on Amateur Radio can be reached by simpler
> means like a home brew box like the W2IHY stuff.
>
> I also do some PA work. I hate the sound of a bad PA
> system in stores and at sports events. I hate the
> way Letterman's staff mixes their guest bands. Paul
> Shaffer has it down pretty good, but the guest bands
> are awful, especially the mixing of the vocals.
>
> I hate to use a cell phone, I don't have one. I
> prefer my Icom 2 AT over my newer 2 meter radios
> because the speaker is bigger. It does not sound
> like an overdriven ear plug.
>
> Now that I have explained where I am coming from,
> and I understand that I may be a bit radical in this

> area, here is what the model 80 did for me.
>
> 1.8 kHz SSB sounds to me like I have wet cotton in
> my ears. 2.4 removes some of the cotton. 2.8
> removed a bit more and allowed me to hear better,
> smoother lows.
>
> My original intent was to extend the low frequency
> response on transmit. A stock TS-820 is about 6 dB
> down at 400 Hz. I tried changing the carrier
> oscillator frequency (carrier point) to move this 6
> dB point to around 200 Hz. The loss in the high end
> was critical because the high end cut off is in a
> critical area for the presence range anyway.
> Originally, with a 2.4 kHz filter, the 6 dB down
> point at the top fell at around 2.8 kHz. Changing
> the carrier point dropped it to around 2.6 kHz. The
> change wasn't drastic and a typical tin ear person
> would never tell the difference but I didn't like
> it.
>
> I figured that the model 80 would allow me to have
> better lows around 200 Hz instead of 400 and still
> have top end to about 2800 Hz regaining the
> presence. But actually, this filter offered even
> more advantages than I expected. This filter has a
> much sharper skirt ratio than the original filter
> because it has an extra pole.
>
> I have noticed that when trying several different
> stock filters in these rigs that these stock filters
> vary slightly in their sound on receive. The INRAD
> has a smoother bandpass between the ends (less
> bumping) and I could notice the improved sound. I
> also found that with the carrier point set to pass
> 200 Hz that there was usable response up to 3 kHz on
> both transmit and receive.
>
> I had one more surprise. I have noticed that all
> TS-820s I have used or worked on had a receive audio
> problem. This is one of those things that just bugs
> me and nobody else notices. It appears that the AGC
> does not attack fast enough and overshoots on the
> initial part of a SSB voice peak. It makes a very
> slight burst of tearing or distortion at the
> beginning of each syllable. I have not had the time
> to pursue this, but I felt that some stage in the IF
> was overloading during these peaks.
>
> Because the INRAD filter has 6 poles, it has

> slightly more insertion loss than the original
> filter. This additional loss corrected the IF
> overload problem. Because of the noise floor, even
> on 10 meters, I did not notice any meaningful
> sensitivity loss due to this insertion loss. I
> maintain that the overall S/n ratio is slightly
> better probably due to the improved filter shape.
>
> Another concern was increased adjacent frequency
> interference with the wider filter. While the window
> is indeed wider, when it closes it closes faster due
> to sharper skirts. I maintain that a lot of the
> adjacent channel problems are in the area where the
> original filter is 10 dB down. A strong 10 dB down
> signal can still be audible. While the INRAD filter
> brings the flat band pass closer to this unwanted
> signal, slightly farther out it rejects it say 20 dB
> instead of 10 dB so I believe that my overall
> situation has actually improved.
>
> On transmit, even though I am slightly wider, I go
> away fast when I start rolling off so again, I
> believe my bandwidth at the 10 dB or 20 down point
> is less wide.
>
> The filter is a direct installation. Usually I leave
> the filter very slightly (the width of 2 or 3 QSL
> cards) above the board so solder will not flow up
> from the pins to ground. You will have to readjust
> the carrier point and the carrier balance. If you
> get one, I'll give you some shortcuts and pointers.
>
> I was not able to bring the low end down much
> farther than 200 Hz. Although this rig has a
> balanced modulator that suppresses the carrier, more
> suppression is needed. This is done with the filter
> skirt. The sharper skirt on the low end will buy
> more suppression allowing the bandpass to be moved
> down a bit, but if I go too far, I get inadequate
> carrier suppression and the carrier balance becomes
> very critical. It gets a little more touchy anyway
> but is workable and seems to stay put OK.
>
> I also use a 6 or 8 inch round speaker in a wood
> enclosure, often with an open back. the wedge shaped
> DuKane speakers used in PA systems and the speakers
> used in classroom PA systems when we were in school
> seem to work for me. DuKane ceiling speakers also
> work if placed in a simple wooden box. Remove the
> 70V transformer and go directly to the speaker. Very

> wide fidelity speakers seem to pass unwanted noise,
> little ones are too pinched sounding.
>
> Most Amateurs would not notice any of what I have
> explained above. Most people have a tin ear. Part of
> it is that they never took the time to train their
> ear. They never hear the air flowing through a sax,
> a cornet, or flute. They never hear the fine
> ornamentation in the strings of stringed
> instruments. They would never notice that a JT-30
> ceramic mike will sound better than a SM-58 on a
> harp.
>
> I understand from your web site that you are a
> musician. I bet if you got it adjusted properly, you
> would tell a difference.
>
> There is another mod where the diodes in the
> balanced modulators are replaced with Schokey (I
> probably spelled that wrong) diodes. This is
> supposed to reduce distortion in the balanced
> modulator and product detector.
>
> I have the diodes but have not tried that yet.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, June 27, 2006 11:34 AM
> Subject: [TS-520_820_530_830] Re: Aloha from Maui
> - INRAD filters for the TS-820 series
>
>
> Hi Walt,
>
> I know we've talked about this before. But I
> thought I'd ask again.
> Is the INRAD filter a mahjor improvement over the
> stock Kenwood
> filter? You know me, I'm always looking for ways
> to improve my baby.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb"

> <n9wb@...> wrote:
> >
> > I purchased an INRAD model 80 for my TS 820. It
> is 2.8 kHz wide
> instead of 2.4. But it has an extra pole and
> sharper skirts. I
> purchased it so I could make the audio low end of
> my transmit roll
> off at 150 to 200 Hz instead of 400 Hz by moving
> the carrier point
> and not loose high end. But what I didn't expect
> is that it made a
> tremendous difference in my receive quality. It
> did not degrade my
> adjacent frequency rejection as I had expected.
> This filter has less
> bumps along it's curve and rolls sharply once it
> gets
=== message truncated ===

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8077. Re: Aloha from Maui - INRAD filters for the TS-820 series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-28 01:13:12 UTC
From: Ellen R
Topic: 8050 Message: 8077

Walt,

You've sold me. You answered my biggest concern, which was the bandwidth issue. But since the filter has such steep skirts, I can understand how it can be even more selective than the stock 2.4 KHz filter. Also you did mention some very important things, related to sound fidelity, with this filter.

For starters, the wider bandwidth, means that you wil hear more audio information, wihc gives greater fidelity. MY 820 is NOT my contest machine (I have A Yaesu FT-897 for that); it is my high fidewlity radio. Yes I am a musician. I played brass instruments from 6th grade, until my Sophomre year of college; I also have been playing guitar since 1979, and used to be a lead guitar player in semi-pro heavy rock bands. Most people dcon't realize that hard rock and metal guitarists are usually tone nuts. It is NOT easy (especially live), to get a decent heavy guitar sound. I've always been picky about my sound. I hate shrill sound. I also hate woofy, muddy bottom end. It has to be tight. The gripe you had about David Letterman's sound man - I can understand that, having worked with lazy soundmen, who forced me to take matters into my own hands to get a decdent sound, that I could at least live with onstage (including blowing $160 on my own Shure SM-58 vocal mic, rather than using the soundman's SM-57 [which is only a so-so vocal mic, but a great instrument mic]).

Being a tone maven, I understand your concerns about the TS-820 series audiowise. Stock, the audio is OK, but a bit midrangey for my taste. I have noticed the attack issues you mentioned,when you first hear the other station talk. To me it sounds like a momentary compression of the first syllables that the other ham speaks. I can live with it, but it would be nice to get rid of it. I trust your judgemetn on these sound issues, and it sounds like the INRad 2.8 KHz filter solves these probelms. It looks like I'm going to be spending some more money. Thanks for the info.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Ellen:
>
> To me it was worth every bit of spending $100.00 on a $45.00 radio. Now my priorities are different from a lot of people. First, I am mostly interested in SSB, although once in a very great while I work

CW. I got my Extra when I had to pass 20 WPM before the FCC, but I don't enjoy CW much.
>
> Having been involved in broadcasting and sound for some years, although not so much recently, bad sound really bothers me.
> Now, I don't have a big rack of processing equipment, although I am sympathetic with those who wish to do so. Having worked with broadcast processing, using voice and music and multiple channels, I feel this is overkill for me. One voice, one mike at a time, no music, I believe my goals on Amateur Radio can be reached by simpler means like a home brew box like the W2IHY stuff.
>
> I also do some PA work. I hate the sound of a bad PA system in stores and at sports events. I hate the way Letterman's staff mixes their guest bands. Paul Shaffer has it down pretty good, but the guest bands are awful, especially the mixing of the vocals.
>
> I hate to use a cell phone, I don't have one. I prefer my Icom 2 AT over my newer 2 meter radios because the speaker is bigger. It does not sound like an overdriven ear plug.
>
> Now that I have explained where I am coming from, and I understand that I may be a bit radical in this area, here is what the model 80 did for me.
>
> 1.8 kHz SSB sounds to me like I have wet cotton in my ears. 2.4 removes some of the cotton. 2.8 removed a bit more and allowed me to hear better, smoother lows.
>
> My original intent was to extend the low frequency response on transmit. A stock TS-820 is about 6 dB down at 400 Hz. I tried changing the carrier oscillator frequency (carrier point) to move this 6 dB point to around 200 Hz. The loss in the high end was critical because the high end cut off is in a critical area for the presence range anyway. Originally, with a 2.4 kHz filter, the 6 dB down point at the top fell at around 2.8 kHz. Changing the carrier point dropped it to around 2.6 kHz. The change wasn't drastic and a typical tin ear person would never tell the difference but I didn't like it.
>
> I figured that the model 80 would allow me to have better lows around 200 Hz instead of 400 and still have top end to about 2800 Hz regaining the presence. But actually, this filter offered even more advantages than I expected. This filter has a much sharper skirt ratio than the original filter because it has an extra pole.
>
> I have noticed that when trying several different stock filters in these rigs that these stock filters vary slightly in their sound on receive. The INRAD has a smoother bandpass between the ends (less bumping) and I could notice the improved sound. I also found that

with the carrier point set to pass 200 Hz that there was usable response up to 3 kHz on both transmit and receive.
>
> I had one more surprise. I have noticed that all TS-820s I have used or worked on had a receive audio problem. This is one of those things that just bugs me and nobody else notices. It appears that the AGC does not attack fast enough and overshoots on the initial part of a SSB voice peak. It makes a very slight burst of tearing or distortion at the beginning of each syllable. I have not had the time to pursue this, but I felt that some stage in the IF was overloading during these peaks.
>
> Because the INRAD filter has 6 poles, it has slightly more insertion loss than the original filter. This additional loss corrected the IF overload problem. Because of the noise floor, even on 10 meters, I did not notice any meaningful sensitivity loss due to this insertion loss. I maintain that the overall S/n ratio is slightly better probably due to the improved filter shape.
>
> Another concern was increased adjacent frequency interference with the wider filter. While the window is indeed wider, when it closes it closes faster due to sharper skirts. I maintain that a lot of the adjacent channel problems are in the area where the original filter is 10 dB down. A strong 10 dB down signal can still be audible. While the INRAD filter brings the flat band pass closer to this unwanted signal, slightly farther out it rejects it say 20 dB instead of 10 dB so I believe that my overall situation has actually improved.
>
> On transmit, even though I am slightly wider, I go away fast when I start rolling off so again, I believe my bandwidth at the 10 dB or 20 down point is less wide.
>
> The filter is a direct installation. Usually I leave the filter very slightly (the width of 2 or 3 QSL cards) above the board so solder will not flow up from the pins to ground. You will have to readjust the carrier point and the carrier balance. If you get one, I'll give you some shortcuts and pointers.
>
> I was not able to bring the low end down much farther than 200 Hz. Although this rig has a balanced modulator that suppresses the carrier, more suppression is needed. This is done with the filter skirt. The sharper skirt on the low end will buy more suppression allowing the bandpass to be moved down a bit, but if I go too far, I get inadequate carrier suppression and the carrier balance becomes very critical. It gets a little more touchy anyway but is workable and seems to stay put OK.
>
> I also use a 6 or 8 inch round speaker in a wood enclosure, often with an open back. the wedge shaped DuKane speakers used in PA systems and the speakers used in classroom PA systems when we were in

school seem to work for me. DuKane ceiling speakers also work if placed in a simple wooden box. Remove the 70V transformer and go directly to the speaker. Very wide fidelity speakers seem to pass unwanted noise, little ones are too pinched sounding.
>
> Most Amateurs would not notice any of what I have explained above. Most people have a tin ear. Part of it is that they never took the time to train their ear. They never hear the air flowing through a sax, a cornet, or flute. They never hear the fine ornamentation in the strings of stringed instruments. They would never notice that a JT-30 ceramic mike will sound better than a SM-58 on a harp.
>
> I understand from your web site that you are a musician. I bet if you got it adjusted properly, you would tell a difference.
>
> There is another mod where the diodes in the balanced modulators are replaced with Schokey (I probably spelled that wrong) diodes. This is supposed to reduce distortion in the balanced modulator and product detector.
>
> I have the diodes but have not tried that yet.
>
> Vy 73, Walt N9WB
>
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, June 27, 2006 11:34 AM
> Subject: [TS-520_820_530_830] Re: Aloha from Maui - INRAD filters for the TS-820 series
>
>
> Hi Walt,
>
> I know we've talked about this before. But I thought I'd ask again.
> Is the INRAD filter a mahjor improvement over the stock Kenwood
> filter? You know me, I'm always looking for ways to improve my baby.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I purchased an INRAD model 80 for my TS 820. It is 2.8 kHz wide
> instead of 2.4. But it has an extra pole and sharper skirts. I
> purchased it so I could make the audio low end of my transmit

roll
> off at 150 to 200 Hz instead of 400 Hz by moving the carrier
point
> and not loose high end. But what I didn't expect is that it made
a
> tremendous difference in my receive quality. It did not degrade
my
> adjacent frequency rejection as I had expected. This filter has
less
> bumps along it's curve and rolls sharply once it gets to the end.
> (sharper skirt ratio). I paid $45.00 for my TS-820. I believe
that
> the $100.00 for the filter was the best money that I have ever
spent
> in a long time.
> >
> > My preferences may be different than many folks. I tried a 1.8
> filter in a TS-820 many years ago and hated it. I found that the
> little bit of rejection it gave me was not worth the limited
audio it
> caused. I have also found that on 80 and 160, storm crashes are
more
> annoying at narrower bandwidths than wider ones. At wider
bandwidths,
> the crashes are softer and far less nerve wracking.
> >
> > If I had a TS-830, I would purchase the model 88 and 89 for it.
> >
> > This is all about SSB, not CW.
> >
> > Vy 73, Walt N9WB
> >
> >
> > ----- Original Message -----
> > From: Michael Eddy
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, June 25, 2006 3:14 PM
> > Subject: RE: [TS-520_820_530_830] Aloha from Maui
> >
> >
> > Walt
> >
> > Thanks for the kind welcome. I will know later today if I was
> successful in
> > obtaining the TS-830. If I do, I may contact you again in
regards
> to your
> > knowledge of any mechanical issues. Secondly, I have already
> spoken with
> > INRAD about the filters, which are readily available. None of

the
> new
> > equipment appeals to me like the stuff from my early days. None
> the less, if
> > I can't come up with an 830 in near perfect condition, I may
> purchase a new
> > TS-570D. Either way, I'm looking forward to returning to the
> hobby.
> >
> > 73 and Aloha from Maui
> >
> > Mike WA7YET
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
> > Sent: Sunday, June 25, 2006 9:42 AM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] Aloha from Maui
> >
> > Mike:
> > Welcome!
> > In my opinion, the TS-830 is one of the best rigs ever design
> from an
> > electronic standpoint. It has some mechanical issues but these
> are easily
> > overcome. These are mostly regarding the bandswitch, but these
> can be
> > repaired and modified so to not re occur without obtaining
another
> > bandswitch. I think that you will love an 830. Very good
receiver,
> > especially with some INRAD filters which can easily be done a
bit
> at a time.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: soldonparadise
> > To: TS-520_820_530_ <mailto:TS-520_820_530_830%
40yahoogroups.com>
> > 830@yahoogroups.com
> > Sent: Saturday, June 24, 2006 1:08 PM
> > Subject: [TS-520_820_530_830] Aloha from Maui
> >
> > I am new to the group and wanted to introduce myself. I have
been
> > absent from ham radio for many years and recently have had a

> renewed
> > interest in the hobby. I researched all of the latest equipment
> and
> > nothing moves me like the rigs from my early days. I have
decided
> to
> > try and find an abosolute mint TS-830S and build my station
> around it.
> > While I wait to find the perfect unit, I will continue to
follow
> this
> > forum to learn about the operation/restoration of my "new"
radio.
> > Thank you in advance for your support, and the wonderful wealth
> of
> > information provided on this forum.
> >
> > Aloha from Maui Hawaii.
> >
> > A Hui Ho
> >
> > Mike WA7YET
> >
> > [Non-text portions of this message have been removed]
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8078. Re: [TS-520_820_530_830] Re: Aloha from Maui - INRAD filters for the TS-820 series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-28 08:09:30 UTC
From: n9wb
Topic: 8050 Message: 8078

Correction:
I am very sorry but I did have the filter number wrong. The correct number
is #88.
Vy 73, Walt N9WB

----- Original Message -----
From: Bill Richarz
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, June 27, 2006 6:53 PM
Subject: Re: [TS-520_820_530_830] Re: Aloha from Maui - INRAD filters for
the TS-820 series

Isn't that filter a model 88 rather than 80?
I didn't see a model 80 listed on their web page.

I would like to try that filter myself on my TS-820S
so would like to know if the 88 is the correct one
rather than a model 80.

Tnx, 73 de Bill, N4DH

--- n9wb <n9wb@...> wrote:

> Ellen:
>
> To me it was worth every bit of spending $100.00 on
> a $45.00 radio. Snip: N9WB.

8079. INRAD 98 works great

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-28 15:43:18 UTC
From: Roberto Baca Barnard
Topic: 8079 Message: 8079

I'm using the INRAD 98 on my TS820. Works great, especially for my QRP

rbb

8080. This is KE7GGV-Jerry DE ALBANY OREGON

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-28 20:04:26 UTC
From: Gerald R.Gaule
Topic: 8080 Message: 8080

I just got a KENWOOD/TRIO TS-820 S W/A VFO 820....in excellent shape...

I was looking at it...I need some tips and ideas for a antennas...I do not have much room for a dipole...but I would like to build a simple wire antenna for it...I thought about a simple Vertical too...I want to build something on my own...I have Power lines all around the house...around 35-40 high...I would like something simple...I really do not have the Manual for it...

I thank you...Jerry-DE KE7GGV....

http://groups.yahoo.com/group/HAM-APNEACS/

Ke7ggv@...

8081. KE7GGV-DE ALBANY OREGON

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-28 20:22:50 UTC
From: Gerald R.Gaule
Topic: 8081 Message: 8081

Where can I find a Manual for my KENWOOD-TRIO TS-820 S...

DE KE7GGV-THX-73

ke7ggv@...

8082. Re: KE7GGV-DE ALBANY OREGON

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-28 23:53:51 UTC
From: Gordon
Topic: 8081 Message: 8082

There are some manuals here in the file section.
If what you are looking for is NOT here, then Go to
http://www.n6wk.com/kenwood/ and take a peek.
You may download as many as you like.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gerald R.Gaule"
<gaules@...> wrote:
>
> Where can I find a Manual for my KENWOOD-TRIO TS-820 S...
>
> DE KE7GGV-THX-73
>
> ke7ggv@...
>

8083. 820 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 01:52:58 UTC
From: ab8rl
Topic: 8083 Message: 8083

A friend of mine bought my 820 several weeks ago and advised me today it blew a fuse while in receive.

He brought it over for me look over. I removed the covers and I also disconnected the high voltage caps from the 6146W tubes. Powered it up and receiver came on - works fine - no problem.

When I flipped the HEATER switch on , the filement on the driver tube does light - but BOTH filements on the 6146W do not light up.

I placed on HV cap on one 6146W and nothing happened - no issue

I placed the 2nd HV cap on the 2nd 6146W and the tube was arcing in side at the bottom of the tube - it has pitted the tube inside with a burn mark. I immediately shut the power switch off. No fuse blew probably because I didnt let it continue.

Looks right now that I have no FILEMENT VOLTAGE for the tubes - and possibly could have one bad 6146W tube.

I dont have a repair manual so I cant trace.

Any ideas???

Thank you

Tom AB8RL

8084. Re: 820 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 02:29:40 UTC
From: Gordon
Topic: 8083 Message: 8084

Tom,
If the filament in the driver works, then you have the 12 volts
needed from the transformer. If either of the 6146's has an open
filament, then neither will light up as they are wired in series with
each other. (6146's) are actually 6 volt filaments.
12 volts come in the (H) terminal on the final board to opin 2 of the
first 6146, then leaves on pin 7 which jumoers over to pin 2 on the
second 6146 and grounds on pin 7 . so, you should have 12 volts on the
"H" terminal and 12 volts on pin 2 of the first (forward) 6146. you
should have 6 volts on pin 7 of the forward 6146 and on pin 2 of the
rear 6146. pin 7 of the rear 6146 should be ground.
Check pins 2 and 7 of the forward 6146. I fyou have 12 in and 6 out...
It's filament is working. If not, it is open.

Sounds to me like the one or both of the finals shorted out. perhaps
from too long of a tune period?? I can only guess.

Looks like you are going to have to have your friend replace one or
both finals.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "ab8rl" <ab8rl@...> wrote:
>
> A friend of mine bought my 820 several weeks ago and advised me
> today it blew a fuse while in receive.
>
> He brought it over for me look over. I removed the covers and I
> also disconnected the high voltage caps from the 6146W tubes.
> Powered it up and receiver came on - works fine - no problem.
>
> When I flipped the HEATER switch on , the filement on the driver
> tube does light - but BOTH filements on the 6146W do not light up.
>
> I placed on HV cap on one 6146W and nothing happened - no issue
>
> I placed the 2nd HV cap on the 2nd 6146W and the tube was arcing in
> side at the bottom of the tube - it has pitted the tube inside with
> a burn mark. I immediately shut the power switch off. No fuse
> blew probably because I didnt let it continue.
>
> Looks right now that I have no FILEMENT VOLTAGE for the tubes - and
> possibly could have one bad 6146W tube.
>
> I dont have a repair manual so I cant trace.
>

> Any ideas???
>
> Thank you
>
> Tom AB8RL
>

8086. Re: [TS-520_820_530_830] Re: 820 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 07:00:36 UTC
From: Richard Harris
Topic: 8083 Message: 8086

Tom,

Another reason for no current through the heaters is a bad joint on one or more of the heater pins of the 6146 tube-base. The tube-base solder joints go through considerable temperature cycling and may fatigue over time.

I have a TS-530 that I bought with no TX output and a tube-base heater solder joint was the cause.

However, from your description it is likely that one of the 6146s has failed. You will find plenty of advice about 6146s available from this group. I believe that there is universal agreement that you must NOT fit Chinese 6146s. 6146B or 6146W from the major manufacturers, such as GE, should be fitted. Check this group for suggestions about suppliers in the US

I suggest that you should also get a spare 12BY7A at the same time. The life of these driver tubes seems to be less than that of 6146s that are cared for during tune-up.

Richard G3OTK

At 02:29 29/06/2006 +0000, you wrote:

>Tom,
>If the filament in the driver works, then you have the 12 volts
>needed from the transformer. If either of the 6146's has an open
>filament, then neither will light up as they are wired in series with
>each other. (6146's) are actually 6 volt filaments.
>12 volts come in the (H) terminal on the final board to opin 2 of the
>first 6146, then leaves on pin 7 which jumoers over to pin 2 on the
>second 6146 and grounds on pin 7 . so, you should have 12 volts on the
>"H" terminal and 12 volts on pin 2 of the first (forward) 6146. you
>should have 6 volts on pin 7 of the forward 6146 and on pin 2 of the
>rear 6146. pin 7 of the rear 6146 should be ground.
>Check pins 2 and 7 of the forward 6146. I fyou have 12 in and 6 out...
>It's filament is working. If not, it is open.
>
>Sounds to me like the one or both of the finals shorted out. perhaps
>from too long of a tune period?? I can only guess.
>
>Looks like you are going to have to have your friend replace one or
>both finals.
>
>Gordon
>
>--- In
><mailto:TS-520_820_530_830%40yahoogroups.com>TS-520_820_530_830@yahoogroups.com,

>"ab8rl" <ab8rl@...> wrote:
> >
> > A friend of mine bought my 820 several weeks ago and advised me
> > today it blew a fuse while in receive.
> >
> > He brought it over for me look over. I removed the covers and I
> > also disconnected the high voltage caps from the 6146W tubes.
> > Powered it up and receiver came on - works fine - no problem.
> >
> > When I flipped the HEATER switch on , the filement on the driver
> > tube does light - but BOTH filements on the 6146W do not light up.
> >
> > I placed on HV cap on one 6146W and nothing happened - no issue
> >
> > I placed the 2nd HV cap on the 2nd 6146W and the tube was arcing in
> > side at the bottom of the tube - it has pitted the tube inside with
> > a burn mark. I immediately shut the power switch off. No fuse
> > blew probably because I didnt let it continue.
> >
> > Looks right now that I have no FILEMENT VOLTAGE for the tubes - and
> > possibly could have one bad 6146W tube.
> >
> > I dont have a repair manual so I cant trace.
> >
> > Any ideas???
> >
> > Thank you
> >
> > Tom AB8RL
> >
>
>

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information

that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

==========

[Non-text portions of this message have been removed]

8087. Re: [TS-520_820_530_830] This is KE7GGV-Jerry DE ALBANY OREGON

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 12:29:13 UTC
From: Bill Leahy
Topic: 8080 Message: 8087

Welcome to the group, Jerry.

http://www.dxzone.com/catalog/Antennas/G5RV/

Check out the G5RV; 105' of antenna will get you 80-10meters, about 55' for 40-10.

The 520-530-820-830 series will all tune the G5RV without a tuner and do quite well with it; it's a good all-around design and makes FB shortwave listener antenna too.

73,

Bill K0ZL

On 6/28/06, Gerald R.Gaule <gaules@...> wrote:
>
> I just got a KENWOOD/TRIO TS-820 S W/A VFO 820....in excellent shape...
>
> I was looking at it...I need some tips and ideas for a antennas...I do
> not have much room for a dipole...but I would like to build a simple
> wire antenna for it...I thought about a simple Vertical too...I want
> to build something on my own...I have Power lines all around the
> house...around 35-40 high...I would like something simple...I really
> do not have the Manual for it...
>
> I thank you...Jerry-DE KE7GGV....
>
> http://groups.yahoo.com/group/HAM-APNEACS/
>
> Ke7ggv@... <Ke7ggv%40comcast.net>
>
>
>

[Non-text portions of this message have been removed]

8088. Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 20:27:42 UTC
From: budgiebob2005
Topic: 8088 Message: 8088

Hi all I have two queries
A I use a seperate vfo unit ts820 with my TS 520e all works fine but the VFO reads 10ks High Is it a straight forward adjustment or a proceedure i can find no ref to alignment in the sheets i have downloaded.
B Ts820m I am on final stages off a major service however i have what appears to be mechanical play (up down) on the tunning knob spindel and although this does not shift frequency it spoils the feel off the drive . it looks at first glance that there is either play in the brass drive or possiably some bending off the shaft that connects the knob it shows worse up down rather than side to side . Is it possiable that a s/h replacement may be availiable from a junk box ? Is there any adjustment to remove play ?

Your thoughts please Bob G8ACQ

8089. My second TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 21:55:09 UTC
From: Gordon
Topic: 8089 Message: 8089

Hi guys and girls,

I am still working on this old TS-820. I have discovered that the Grid Bias seems to rise as the rig gets warmer. After 10 minutes, it does NOT seem to go any further. When Cold, I can set the idle bias to 60 ma. I then tune the rig. Output is only about 70 to 80 watts. As a few more minutes go by, I can recheck and get the full 100 watts out, But I then notice that the Bias current has risen to 75 or 80 ma. Turning it back down to 60 still gives me 100 watts output, but the next time I turn the rig on, the Idle Bias is down to 45 or so.
I noticed something today, well actually 2 things. One is that when I switch to USB and check the idle current when cold, it is 60 ma, If I plut a key in the back , switch the Vox on and select send, the CW idle current is 10 to 15 ma Higher... is that Normal?
The second thing I am noticing is that as the rig gets warmer and warmer, the plate DIP does NO longer matches the higest output, but does when it's cool (under 3 or 4 minutes from being turned on.)
Now, I am suspecting finals, but I would like you guys to give me your opinions also.
The Cathode resistors look and check good. Plate voltage (key down under full load) is about 790 volts and at maximum output (about 100 watts) I show 200 -210 ma. I have changed the driver 3 times, but NOT the finals yet. The rig sends out good clean signals on CW and SSB but this varying bias has me puzzled.
Any Ideas guys and Girls ??

Gordon
N6WK

8090. Re: Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-29 21:58:30 UTC
From: Gordon
Topic: 8088 Message: 8090

I have to wonder if the Big Bearing right behind the adjustment wheel
behind the main Knob is missing?
Does the main Knob turn smoothly, or does it seem a bit "TIGHT "

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
<budgiebob@...> wrote:
>
> Hi all I have two queries
> A I use a seperate vfo unit ts820 with my TS 520e all works fine but
> the VFO reads 10ks High Is it a straight forward adjustment or a
> proceedure i can find no ref to alignment in the sheets i have
> downloaded.
> B Ts820m I am on final stages off a major service however i have
> what appears to be mechanical play (up down) on the tunning knob
> spindel and although this does not shift frequency it spoils the feel
> off the drive . it looks at first glance that there is either play in
> the brass drive or possiably some bending off the shaft that connects
> the knob it shows worse up down rather than side to side . Is it
> possiable that a s/h replacement may be availiable from a junk box ?
> Is there any adjustment to remove play ?
>
> Your thoughts please Bob G8ACQ
>

8091. Re: Can I substitute a 12AV7 for a 12BY7A

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 00:28:15 UTC
From: james27613
Topic: 8059 Message: 8091

hi

plenty of GE 12BY7A JAN driver tubes available
along with 6146W GE JAN

http://www.surplussales.com/Tubes-Sock-Acc/TubeSpecials.html

73 james

8092. Re: [TS-520_820_530_830] Re: Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 01:58:07 UTC
From: Charles Mortimer
Topic: 8088 Message: 8092

hallo Gordon
that's one of the problems with these radios problem is your radio had
a lot of ware the ware is in the first vfo plate the one with the window and
four screws holding it on what has happened the ball bearings have worn a
grove in the dicast vfo plate and also the main bearing is plastic
with 10 ball bearings snapped into place
also it is a possibility some one could of lost a couple of these ball
bearings the only solution to this problem is to have the vfo plate turned
out and a ring turned up to and pressed in to the vfo plate creating a new
bearing surface (THEY WERE NEVER VERY TIGHT) to start with
if you have a metal lathe and engineering skills no problem
if take it to an engineering shop preferably a tool maker they deal
in finer work other wise it is a matter of gritting your teeth and
leaving it alone every one of the 820 suffer the same problem and
especially the people who fitted the gold anodized vfo knob they were heavy
I know I have one fitted on mine there is another idea that you can do to
stop the slack is to use one thou shim brass and glue it in to the
bearing surface using araldite the strip would haft to be about 1/8 wide
and cut exactly to length this idea is not for the faint harted very
fiddley
any way check that bearing
Charles and rusty vk6ycj
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 30, 2006 5:58 AM
Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m

>I have to wonder if the Big Bearing right behind the adjustment wheel
> behind the main Knob is missing?
> Does the main Knob turn smoothly, or does it seem a bit "TIGHT "
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
> <budgiebob@...> wrote:
>>
>> Hi all I have two queries
>> A I use a seperate vfo unit ts820 with my TS 520e all works fine but
>> the VFO reads 10ks High Is it a straight forward adjustment or a
>> proceedure i can find no ref to alignment in the sheets i have
>> downloaded.
>> B Ts820m I am on final stages off a major service however i have
>> what appears to be mechanical play (up down) on the tunning knob

>> spindel and although this does not shift frequency it spoils the feel
>> off the drive . it looks at first glance that there is either play in
>> the brass drive or possiably some bending off the shaft that connects
>> the knob it shows worse up down rather than side to side . Is it
>> possiable that a s/h replacement may be availiable from a junk box ?
>> Is there any adjustment to remove play ?
>>
>> Your thoughts please Bob G8ACQ
>>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8093. Re: Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 04:53:41 UTC
From: Gordon
Topic: 8088 Message: 8093

Thanks Charles for the Info, But the radio with the Problem is Bob's.
Now if it were worn, as you suggest, Why then would it have more play
"UP and DOWN" then Side to side ? I find this interesting and I
hope he will remove the front 2 dials and let us know what he finds in
there.
I agree with you, If I had a radio with a serious looseness up and
down and side to side, I would take it to my local machinist and have
him machine a new " Bearing Race" for me , but this sounds like a
different problem to me.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
<mortimer@...> wrote:
>
> hallo Gordon
> that's one of the problems with these radios problem is your radio had
> a lot of ware the ware is in the first vfo plate the one with the
window and
> four screws holding it on what has happened the ball bearings have
worn a
> grove in the dicast vfo plate and also the main bearing is plastic
> with 10 ball bearings snapped into place
> also it is a possibility some one could of lost a couple of these ball
> bearings the only solution to this problem is to have the vfo
plate turned
> out and a ring turned up to and pressed in to the vfo plate
creating a new
> bearing surface (THEY WERE NEVER VERY TIGHT) to start with
> if you have a metal lathe and engineering skills no problem
> if take it to an engineering shop preferably a tool maker
they deal
> in finer work other wise it is a matter of gritting your teeth and
> leaving it alone every one of the 820 suffer the same problem and
> especially the people who fitted the gold anodized vfo knob they
were heavy
> I know I have one fitted on mine there is another idea that you
can do to
> stop the slack is to use one thou shim brass and glue it in to the
> bearing surface using araldite the strip would haft to be about 1/8
wide
> and cut exactly to length this idea is not for the faint harted very
> fiddley
> any way check that bearing
> Charles and rusty vk6ycj
> ----- Original Message -----

> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Friday, June 30, 2006 5:58 AM
> Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m
>
>
> >I have to wonder if the Big Bearing right behind the adjustment wheel
> > behind the main Knob is missing?
> > Does the main Knob turn smoothly, or does it seem a bit "TIGHT "
> >
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
> > <budgiebob@> wrote:
> >>
> >> Hi all I have two queries
> >> A I use a seperate vfo unit ts820 with my TS 520e all works
fine but
> >> the VFO reads 10ks High Is it a straight forward adjustment or a
> >> proceedure i can find no ref to alignment in the sheets i have
> >> downloaded.
> >> B Ts820m I am on final stages off a major service however i have
> >> what appears to be mechanical play (up down) on the tunning knob
> >> spindel and although this does not shift frequency it spoils the feel
> >> off the drive . it looks at first glance that there is either play in
> >> the brass drive or possiably some bending off the shaft that connects
> >> the knob it shows worse up down rather than side to side . Is it
> >> possiable that a s/h replacement may be availiable from a junk box ?
> >> Is there any adjustment to remove play ?
> >>
> >> Your thoughts please Bob G8ACQ
> >>
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
>

8094. Re: [TS-520_820_530_830] Re: Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 06:31:42 UTC
From: Charles Mortimer
Topic: 8088 Message: 8094

my apologies Gordon
its all to do with weight
my 820 is exactly the same more up down movement than sideways
I have seen a few like this problem is human not the kinematics of
machinery
any body who is interested the radio is on the desk take hold of the vfo
knob I take it your wrist is on the bench three fingers on the top of the
knob some of us might use one finger or the spinner recess
three fingers the natural weight and the mussels in your wrist are
forcing down on the vfo knob now imagin there is ring/bearing cage
with 10 barring in it approximately each bearing is spaced 3/8" apart
in a plastic baring cage of 1 1/8" bearing cage as you revolve the
vfo knob some time or other time or other all the time if you think about
it
there is only three bearings in contact on the front of that baring housing
which is the vfo dial plate
and plastic baring housing flexes result ware at the bottom left hand
side that's with right handed people with left handed people it the
opposite side now spinner recess has the same thing with a slight
difference you hand weight at the top as you go over center and at the
bottom weight and if you have a heavy vfo knob that compounds your weight
of your hand and weight of the knob now this all sounds highly technical
and mysterious just watch how you operate the vfo some of us grab hold
of it as if it were a car steering wheal hanging on it for grim death
that's where the slop comes from plus they were never precision engineered
they always had slop another example
place an ordinary base ball on the desk how much baring surface is there on
the desk now imagine 1/8" ball bearing working on a flat surface which is
uncuped bad news its nothing to worry about
unless one cant live with it try the vfo of a more modern transceiver
like a ts690 rock solid no slack go back to the 820 sloppy as
ft one Yasue sloppy
this is old engineering my ic735 tight
after all that if it is that sloppy on bobs some one has lost the ball
bearings most likely if not it all to do with weight and how we handle
the vfo
suppose this sounds like a load of old bull dust STOP THINK ABOUT IT
charles & rusty vk6ycj
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 30, 2006 12:53 PM
Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m

> Thanks Charles for the Info, But the radio with the Problem is Bob's.
> Now if it were worn, as you suggest, Why then would it have more play
> "UP and DOWN" then Side to side ? I find this interesting and I
> hope he will remove the front 2 dials and let us know what he finds in
> there.
> I agree with you, If I had a radio with a serious looseness up and
> down and side to side, I would take it to my local machinist and have
> him machine a new " Bearing Race" for me , but this sounds like a
> different problem to me.
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
> <mortimer@...> wrote:
>>
>> hallo Gordon
>> that's one of the problems with these radios problem is your radio had
>> a lot of ware the ware is in the first vfo plate the one with the
> window and
>> four screws holding it on what has happened the ball bearings have
> worn a
>> grove in the dicast vfo plate and also the main bearing is plastic
>> with 10 ball bearings snapped into place
>> also it is a possibility some one could of lost a couple of these ball
>> bearings the only solution to this problem is to have the vfo
> plate turned
>> out and a ring turned up to and pressed in to the vfo plate
> creating a new
>> bearing surface (THEY WERE NEVER VERY TIGHT) to start with
>> if you have a metal lathe and engineering skills no problem
>> if take it to an engineering shop preferably a tool maker
> they deal
>> in finer work other wise it is a matter of gritting your teeth and
>> leaving it alone every one of the 820 suffer the same problem and
>> especially the people who fitted the gold anodized vfo knob they
> were heavy
>> I know I have one fitted on mine there is another idea that you
> can do to
>> stop the slack is to use one thou shim brass and glue it in to the
>> bearing surface using araldite the strip would haft to be about 1/8
> wide
>> and cut exactly to length this idea is not for the faint harted very
>> fiddley
>> any way check that bearing
>> Charles and rusty vk6ycj
>> ----- Original Message -----
>> From: "Gordon" <n6wk@...>
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Sent: Friday, June 30, 2006 5:58 AM
>> Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m
>>
>>

>> >I have to wonder if the Big Bearing right behind the adjustment wheel
>> > behind the main Knob is missing?
>> > Does the main Knob turn smoothly, or does it seem a bit "TIGHT "
>> >
>> > Gordon
>> > N6WK
>> >
>> > --- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
>> > <budgiebob@> wrote:
>> >>
>> >> Hi all I have two queries
>> >> A I use a seperate vfo unit ts820 with my TS 520e all works
> fine but
>> >> the VFO reads 10ks High Is it a straight forward adjustment or a
>> >> proceedure i can find no ref to alignment in the sheets i have
>> >> downloaded.
>> >> B Ts820m I am on final stages off a major service however i have
>> >> what appears to be mechanical play (up down) on the tunning knob
>> >> spindel and although this does not shift frequency it spoils the feel
>> >> off the drive . it looks at first glance that there is either play in
>> >> the brass drive or possiably some bending off the shaft that connects
>> >> the knob it shows worse up down rather than side to side . Is it
>> >> possiable that a s/h replacement may be availiable from a junk box ?
>> >> Is there any adjustment to remove play ?
>> >>
>> >> Your thoughts please Bob G8ACQ
>> >>
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>>
>
>
>
>
>
>

>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

8095. Re: [TS-520_820_530_830] Re: Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 08:14:22 UTC
From: Charles Mortimer
Topic: 8088 Message: 8095

post note
baring rings some of these were made of a dicast metal and the ball
barings had a nasty habit of falling out when they where taken out for
service if that's the case try and find ballbearings the right size good
place to look for them skate board bike roller blades skates one would
haft to check the size with a micrometer first to keep the ball barings in
place when fitting slight amount of grease enough to hold the baring in
place so that they don't fall out when refitting the plate back the
barings you are looking for are about 4mil if it is possible to find some
about 4.2mil the result would be slop nearly gone obvious the 4.2 m
wouldn't fit into fit into the bearing holes a bit of judicious work would
haft to be done here of opening up the holes those of us with model
engineering experience a piece of cake with a set of number drills and
small taper/parallel reamers.....the plastic baring keeper that holds
the ball bearings in place is made in too parts looking at it edgewise you
will see a faint joint ((keep your finger nail out of it)) oops to late
all the little balleys have gone walkabout on the floor I will try and
up load some pictures and perhaps Walt or bill could remove them at some
time or other
Charles & rusty

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, June 30, 2006 12:53 PM
Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m

> Thanks Charles for the Info, But the radio with the Problem is Bob's.
> Now if it were worn, as you suggest, Why then would it have more play
> "UP and DOWN" then Side to side ? I find this interesting and I
> hope he will remove the front 2 dials and let us know what he finds in
> there.
> I agree with you, If I had a radio with a serious looseness up and
> down and side to side, I would take it to my local machinist and have
> him machine a new " Bearing Race" for me , but this sounds like a
> different problem to me.
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
> <mortimer@...> wrote:
>>
>> hallo Gordon
>> that's one of the problems with these radios problem is your radio had
>> a lot of ware the ware is in the first vfo plate the one with the
> window and

>> four screws holding it on what has happened the ball bearings have
> worn a
>> grove in the dicast vfo plate and also the main bearing is plastic
>> with 10 ball bearings snapped into place
>> also it is a possibility some one could of lost a couple of these ball
>> bearings the only solution to this problem is to have the vfo
> plate turned
>> out and a ring turned up to and pressed in to the vfo plate
> creating a new
>> bearing surface (THEY WERE NEVER VERY TIGHT) to start with
>> if you have a metal lathe and engineering skills no problem
>> if take it to an engineering shop preferably a tool maker
> they deal
>> in finer work other wise it is a matter of gritting your teeth and
>> leaving it alone every one of the 820 suffer the same problem and
>> especially the people who fitted the gold anodized vfo knob they
> were heavy
>> I know I have one fitted on mine there is another idea that you
> can do to
>> stop the slack is to use one thou shim brass and glue it in to the
>> bearing surface using araldite the strip would haft to be about 1/8
> wide
>> and cut exactly to length this idea is not for the faint harted very
>> fiddley
>> any way check that bearing
>> Charles and rusty vk6ycj
>> ----- Original Message -----
>> From: "Gordon" <n6wk@...>
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Sent: Friday, June 30, 2006 5:58 AM
>> Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m
>>
>>
>> >I have to wonder if the Big Bearing right behind the adjustment wheel
>> > behind the main Knob is missing?
>> > Does the main Knob turn smoothly, or does it seem a bit "TIGHT "
>> >
>> > Gordon
>> > N6WK
>> >
>> > --- In TS-520_820_530_830@yahoogroups.com, "budgiebob2005"
>> > <budgiebob@> wrote:
>> >>
>> >> Hi all I have two queries
>> >> A I use a seperate vfo unit ts820 with my TS 520e all works
> fine but
>> >> the VFO reads 10ks High Is it a straight forward adjustment or a
>> >> proceedure i can find no ref to alignment in the sheets i have
>> >> downloaded.
>> >> B Ts820m I am on final stages off a major service however i have

>> >> what appears to be mechanical play (up down) on the tunning knob
>> >> spindel and although this does not shift frequency it spoils the feel
>> >> off the drive . it looks at first glance that there is either play in
>> >> the brass drive or possiably some bending off the shaft that connects
>> >> the knob it shows worse up down rather than side to side . Is it
>> >> possiable that a s/h replacement may be availiable from a junk box ?
>> >> Is there any adjustment to remove play ?
>> >>
>> >> Your thoughts please Bob G8ACQ
>> >>
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8096. vfo slackness

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 10:30:23 UTC
From: g1fak
Topic: 8096 Message: 8096

pictures of the bearing set up have been uploaded under rusty 2
charles & rusty g1fak vp8bgx

8097. Re: [TS-520_820_530_830] My second TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 13:12:23 UTC
From: Bill Leahy
Topic: 8089 Message: 8097

Gordon, chances are good that one of the final tubes is changing around as it heats up. They are mechanical devices, with significant bit of wire and associated supporting structure; what you describe as a change in neutralization means only that the internal grid structure of one or both tubes is changing with heat.

I wouldn't worry about it, you may have quite a bit of hours left in those tubes. Set your idle current to 45mA cold, and leave it at that; 30 mills is enough to avoid splatter I have found.

If you run only CW you can set your idle current to cutoff and run even more efficiently. Just don't forget to set it back for fone, hi!

73,

Bill K0ZL

On 6/29/06, Gordon <n6wk@...> wrote:
>
> Hi guys and girls,
>
> I am still working on this old TS-820. I have discovered that the
> Grid Bias seems to rise as the rig gets warmer. After 10 minutes, it
> does NOT seem to go any further. When Cold, I can set the idle bias to
> 60 ma. I then tune the rig. Output is only about 70 to 80 watts. As a
> few more minutes go by, I can recheck and get the full 100 watts out,
> But I then notice that the Bias current has risen to 75 or 80 ma.
> Turning it back down to 60 still gives me 100 watts output, but the
> next time I turn the rig on, the Idle Bias is down to 45 or so.
> I noticed something today, well actually 2 things. One is that when I
> switch to USB and check the idle current when cold, it is 60 ma, If I
> plut a key in the back , switch the Vox on and select send, the CW
> idle current is 10 to 15 ma Higher... is that Normal?
> The second thing I am noticing is that as the rig gets warmer and
> warmer, the plate DIP does NO longer matches the higest output, but
> does when it's cool (under 3 or 4 minutes from being turned on.)
> Now, I am suspecting finals, but I would like you guys to give me
> your opinions also.
> The Cathode resistors look and check good. Plate voltage (key down
> under full load) is about 790 volts and at maximum output (about 100
> watts) I show 200 -210 ma. I have changed the driver 3 times, but NOT
> the finals yet. The rig sends out good clean signals on CW and SSB
> but this varying bias has me puzzled.
> Any Ideas guys and Girls ??
>
> Gordon

> N6WK
>
>
>

[Non-text portions of this message have been removed]

8098. Re: [TS-520_820_530_830] Re: Ts 520se Ts820m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 14:04:35 UTC
From: Joan de vk5kyo
Topic: 8088 Message: 8098

Hi all

My 830 had a terrible feel about it when I first got it. My first thoughts was that something was very loose, but it was just a extremely well used 830. A new plate from Kenwood (if you can get one) may not fix the problem because the shaft is partly worn as well.
In the end I decided not to remanufacture a new plate but rather applied some bush mechanics to it and achieved a brand new feel about it. The process is not difficult. All you require is a blunt centre punch and start marking out about 16 centre punches around the hole. Mark these about 1/10" away from the edge of the hole. If you go closer than that, than it becomes harder to control the shrinkage of the hole. Go around and around with the punch initially with steady force each hit. Check the clearance regularly until clearance is minimal for the shaft. If you go slightly too tight, clean it up with a fine round file. Grease on assembly.
The picture I'd taken is not real good, but should be good enough to get the idea.
I hope the suggestion of applying the hammer to an 830 is not too rough for you.

Regards
Joan VK5KYO

Charles Mortimer wrote:

> hallo Gordon
> that's one of the problems with these radios problem is your radio had
> a lot of ware the ware is in the first vfo plate the one with the
> window and
> four screws holding it on what has happened the ball bearings have worn a
> grove in the dicast vfo plate and also the main bearing is plastic
> with 10 ball bearings snapped into place
> also it is a possibility some one could of lost a couple of these ball
> bearings the only solution to this problem is to have the vfo plate
> turned
> out and a ring turned up to and pressed in to the vfo plate creating a
> new
> bearing surface (THEY WERE NEVER VERY TIGHT) to start with
> if you have a metal lathe and engineering skills no problem
> if take it to an engineering shop preferably a tool maker they deal
> in finer work other wise it is a matter of gritting your teeth and
> leaving it alone every one of the 820 suffer the same problem and
> especially the people who fitted the gold anodized vfo knob they were
> heavy
> I know I have one fitted on mine there is another idea that you can do to

> stop the slack is to use one thou shim brass and glue it in to the
> bearing surface using araldite the strip would haft to be about 1/8 wide
> and cut exactly to length this idea is not for the faint harted very
> fiddley
> any way check that bearing
> Charles and rusty vk6ycj
> ----- Original Message -----
> From: "Gordon" <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: <TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>>
> Sent: Friday, June 30, 2006 5:58 AM
> Subject: [TS-520_820_530_830] Re: Ts 520se Ts820m
>
> >I have to wonder if the Big Bearing right behind the adjustment wheel
> > behind the main Knob is missing?
> > Does the main Knob turn smoothly, or does it seem a bit "TIGHT "
> >
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "budgiebob2005"
> > <budgiebob@...> wrote:
> >>
> >> Hi all I have two queries
> >> A I use a seperate vfo unit ts820 with my TS 520e all works fine but
> >> the VFO reads 10ks High Is it a straight forward adjustment or a
> >> proceedure i can find no ref to alignment in the sheets i have
> >> downloaded.
> >> B Ts820m I am on final stages off a major service however i have
> >> what appears to be mechanical play (up down) on the tunning knob
> >> spindel and although this does not shift frequency it spoils the feel
> >> off the drive . it looks at first glance that there is either play in
> >> the brass drive or possiably some bending off the shaft that connects
> >> the knob it shows worse up down rather than side to side . Is it
> >> possiable that a s/h replacement may be availiable from a junk box ?
> >> Is there any adjustment to remove play ?
> >>
> >> Your thoughts please Bob G8ACQ
>
>

[Non-text portions of this message have been removed]

8099. Tune into Amp?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 16:30:42 UTC
From: Kevin
Topic: 8099 Message: 8099

A little excitement, I guess, about upcoming new one MONTENEGRO -YU6 and
the rusty wheels turning got me to wondering:
For the past 25 years or so, same rig Kenwood TS-830S and SB-220 amp.
I tune the 830 up and if I can't bust the pileup I'll flip on
the amp and tune the amp. I have never re-tuned the 830 into the amp!

So the question: Is it best to tune the 830 again into the tuned
input of this old amp? Different impedence?

It wouldn't surprise me if after all this time I'd been doing it wrong
or at least it could be done better.

I go months and months without using the amp at all, mostly CW now
and not needed. Not like the old days when there was more DX-pileups.

But I am sure when YU6 is busy I'll be inclined to light the filaments
of the 3-500z's again.

8100. Re: [TS-520_820_530_830] Tune into Amp?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 17:19:43 UTC
From: Stephen Goldberg
Topic: 8099 Message: 8100

Do the same with my 530 and SB-200. Can get a few more watts out if I
retune the 530 but it doesn't make a real difference.
Steve W4IMF
----- Original Message -----
From: Kevin
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 30, 2006 12:30 PM
Subject: [TS-520_820_530_830] Tune into Amp?

A little excitement, I guess, about upcoming new one MONTENEGRO -YU6 and
the rusty wheels turning got me to wondering:
For the past 25 years or so, same rig Kenwood TS-830S and SB-220 amp.
I tune the 830 up and if I can't bust the pileup I'll flip on
the amp and tune the amp. I have never re-tuned the 830 into the amp!

So the question: Is it best to tune the 830 again into the tuned
input of this old amp? Different impedence?

It wouldn't surprise me if after all this time I'd been doing it wrong
or at least it could be done better.

I go months and months without using the amp at all, mostly CW now
and not needed. Not like the old days when there was more DX-pileups.

But I am sure when YU6 is busy I'll be inclined to light the filaments
of the 3-500z's again.

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.7/379 - Release Date: 6/29/06

8101. Re: My second TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-06-30 18:14:11 UTC
From: Gordon
Topic: 8089 Message: 8101

All my information was also pointing to the finals.
Since I am going to sell this rig when I am finished with it, I'll
just order some NEW finals for it and keep the others here for
testing. If I were going to use it here, I would just run these finals
until they pass away :-)
Thanks for the Input.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...>
wrote:
>
> Gordon, chances are good that one of the final tubes is changing
around as
> it heats up. They are mechanical devices, with significant bit of
wire and
> associated supporting structure; what you describe as a change in
> neutralization means only that the internal grid structure of one or
both
> tubes is changing with heat.
>
> I wouldn't worry about it, you may have quite a bit of hours left in
those
> tubes. Set your idle current to 45mA cold, and leave it at that; 30
mills is
> enough to avoid splatter I have found.
>
> If you run only CW you can set your idle current to cutoff and run
even more
> efficiently. Just don't forget to set it back for fone, hi!
>
> 73,
>
> Bill K0ZL
>
>

8102. Re: [TS-520_820_530_830] Tune into Amp?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 09:21:52 UTC
From: n9wb
Topic: 8099 Message: 8102

I would touch up the tuning with the amp in line. You will probably get better linearity.
Vy 73, Walt N9WB
----- Original Message -----
From: Kevin
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, June 30, 2006 11:30 AM
Subject: [TS-520_820_530_830] Tune into Amp?

A little excitement, I guess, about upcoming new one MONTENEGRO -YU6 and
the rusty wheels turning got me to wondering:
For the past 25 years or so, same rig Kenwood TS-830S and SB-220 amp.
I tune the 830 up and if I can't bust the pileup I'll flip on
the amp and tune the amp. I have never re-tuned the 830 into the amp!

So the question: Is it best to tune the 830 again into the tuned
input of this old amp? Different impedence?

It wouldn't surprise me if after all this time I'd been doing it wrong
or at least it could be done better.

I go months and months without using the amp at all, mostly CW now
and not needed. Not like the old days when there was more DX-pileups.

But I am sure when YU6 is busy I'll be inclined to light the filaments
of the 3-500z's again.

[Non-text portions of this message have been removed]

8103. sloppy vfo knob syndrome

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 16:15:55 UTC
From: g1fak
Topic: 8103 Message: 8103

[:-?]

hallo to one and all

i have been giving this sloppy dial some thought

2 fixes first one is ordenary houshold celotape /parcel tape
remove the dial plate check out the grove that the ball bearings have
made clean out the grove and you might notice when new that whole
inside edge where the bearings fit was covered with paint which would of
taken out some of the slack find a nice clean surface and unzip some
celotape about 4" inches long and place on the clean surface first try 3
pieces all stuck together .. right now thats done take a steel rule
and place it lenthwise on the tape next one sharp razor blade (not
for slitting ones rist) using the rule make a cut lenth wise along
the tape then make another cut a 1/4" apart from the first cut now get
the vfo plate ready ... unstick the tape from the clean shiy surface
thats the 1/4" strip now place the strip of tape inside the bearing
housing where the ball bearings rotated making sure that the joint is
at the top then smoth down then cut the tape where it overlaps and
remove the short bit then smoth down one should not feel a lump at the
joint ok so the tape is too wide take the razor blade to it by
cutting the surplus away making the cutting action towards the metal (
not into the hole) cutting from the hole towards the metal using the
edge as a shear this will give you a clean cut do it the other way and
the tape edge will be rough and you will haft to start all over again
smoth down with finge now put the bearing in place where it should go
and slip the vfo dial plate over now things should of tightened up
quite a lot put everything back in place and give it a try also a little
lubrication wouldent go amiss just a drop and a budwiser for the
fixer.....ok this is not a permanant fix its a fix that everyone
can do on the kitchen table its for the person who has limited skills i
tried this out to day on my 820 slack gone as for how long it will last
((dont have a clue)) until those little ball bearings cut through the
tape the the best thing is there is no damage to the plate and it can
be done over and over its an every lady and gentleman fix try it
theres nothing lost and let us know how long it will last?????? second
idea a little later not so simple

charles&rusty VK6YCJ [:D]

[Non-text portions of this message have been removed]

8104. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 17:54:34 UTC
From: soldonparadise
Topic: 8050 Message: 8104

My "new" TS-830S is on it's way, and as described it should be in like new condition! Since parts are virtually non existent where I live, I always like to keep some spares on hand. I have already ordered a new set of finals and a driver. I would like to get a replacement bandswitch coupling, but I searched the archives and could not find the OEM part number or where it can be ordered. Secondly, are there other parts prone to failure that I should pick up now rather than waiting until the day they fail? And finally, in an effort to keep this rig working for many more years, does it make more sense to just purchase a second TS-830 and use it for spares?

Much Aloha from Maui

Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise" <mikeddy@...> wrote:
>
> Bill
>
> I did indeed find one. The pictures look absolutely mint and the
> unit is described as fully functional with no dirt, dust or smoke.
> Time to hit the archives and get ready to check it out!
>
> Aloha
>
> Mike WA7YET
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Aloha, Mike!
> >
> > Well if you find one that has a few problems but is unblemished,
> consider
> > getting it and fixing the problems; non-smoker's rig, maybe
broken
> > bandswitch coupling, some of the other issues that are common to
> these
> > things and are easily repaired; that will broaden your base of
> available
> > radios and may save you at least the shipping cost.
> >
> > You can go through the archives (got some free time? hi) and see
> what common
> > things plague the 830 and then decide how "minty" you want your

> new rig to
> > be and what things you could possibly accept and correct once it
> arrives.
> >
> > 73!
> >
> > Bill K0ZL
> >
> >
> > On 6/24/06, soldonparadise <mikeddy@> wrote:
> > >
> > > I am new to the group and wanted to introduce myself. I
have
> been
> > > absent from ham radio for many years and recently have had a
> renewed
> > > interest in the hobby. I researched all of the latest
equipment
> and
> > > nothing moves me like the rigs from my early days. I have
> decided to
> > > try and find an abosolute mint TS-830S and build my station
> around it.
> > > While I wait to find the perfect unit, I will continue to
follow
> this
> > > forum to learn about the operation/restoration of my "new"
radio.
> > > Thank you in advance for your support, and the wonderful
wealth
> of
> > > information provided on this forum.
> > >
> > > Aloha from Maui Hawaii.
> > >
> > > A Hui Ho
> > >
> > > Mike WA7YET
> > >
> > >
> > >
> > >
> >
> > [Non-text portions of this message have been removed]
> >
>

8105. Will the VFO820 work with my TS-520S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 20:00:05 UTC
From: leonhutto
Topic: 8105 Message: 8105

Can anyone answer this? I would like to use a VFO820 with my 520S transceiver, but I can't find anything that confirms whether these units are compatible.

Can anyone answer and/or point me to a document that gives a definite answer to my question?

Thanks!

8106. Will the VFO-820 work with my TS-520S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 19:55:12 UTC
From: leonhutto
Topic: 8106 Message: 8106

I recently got a great deal on a VFO-820 and would like to use it with my TS-520S. I have the VFO-520, but I like the look and feel of the VFO-820 better. I can't find anything that tells me if the VFO820 will work with my rig, though. Can anyone give me a straight answer on this?

Thanks!

8107. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 20:13:54 UTC
From: Bill Scurlock
Topic: 8050 Message: 8107

Mike,

You need to go to K4EAA's website. You may find lots of good information. Just look him up on QRZ.com and link to his website.

73, Bill, K5GCW
----- Original Message -----
From: soldonparadise
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 01, 2006 12:54 PM
Subject: [TS-520_820_530_830] Re: Aloha from Maui

My "new" TS-830S is on it's way, and as described it should be in like new condition! Since parts are virtually non existent where I live, I always like to keep some spares on hand. I have already ordered a new set of finals and a driver. I would like to get a replacement bandswitch coupling, but I searched the archives and could not find the OEM part number or where it can be ordered. Secondly, are there other parts prone to failure that I should pick up now rather than waiting until the day they fail? And finally, in an effort to keep this rig working for many more years, does it make more sense to just purchase a second TS-830 and use it for spares?

Much Aloha from Maui

Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise" <mikeddy@...> wrote:
>
> Bill
>
> I did indeed find one. The pictures look absolutely mint and the
> unit is described as fully functional with no dirt, dust or smoke.
> Time to hit the archives and get ready to check it out!
>
> Aloha
>
> Mike WA7YET
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Aloha, Mike!
> >
> > Well if you find one that has a few problems but is unblemished,

> consider
> > getting it and fixing the problems; non-smoker's rig, maybe
broken
> > bandswitch coupling, some of the other issues that are common to
> these
> > things and are easily repaired; that will broaden your base of
> available
> > radios and may save you at least the shipping cost.
> >
> > You can go through the archives (got some free time? hi) and see
> what common
> > things plague the 830 and then decide how "minty" you want your
> new rig to
> > be and what things you could possibly accept and correct once it
> arrives.
> >
> > 73!
> >
> > Bill K0ZL
> >
> >
> > On 6/24/06, soldonparadise <mikeddy@> wrote:
> > >
> > > I am new to the group and wanted to introduce myself. I
have
> been
> > > absent from ham radio for many years and recently have had a
> renewed
> > > interest in the hobby. I researched all of the latest
equipment
> and
> > > nothing moves me like the rigs from my early days. I have
> decided to
> > > try and find an abosolute mint TS-830S and build my station
> around it.
> > > While I wait to find the perfect unit, I will continue to
follow
> this
> > > forum to learn about the operation/restoration of my "new"
radio.
> > > Thank you in advance for your support, and the wonderful
wealth
> of
> > > information provided on this forum.
> > >
> > > Aloha from Maui Hawaii.
> > >
> > > A Hui Ho
> > >
> > > Mike WA7YET

> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

[Non-text portions of this message have been removed]

8108. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-01 21:00:53 UTC
From: soldonparadise
Topic: 8050 Message: 8108

Bill

Right before you posted I found K4EAA's website and contacted him directly. It looks like he might be a great resource for someone stranded on an island in the middle of the Pacific.

Thank you.

Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Mike,
>
> You need to go to K4EAA's website. You may find lots of good information. Just look him up on QRZ.com and link to his website.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: soldonparadise
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, July 01, 2006 12:54 PM
> Subject: [TS-520_820_530_830] Re: Aloha from Maui
>
>
> My "new" TS-830S is on it's way, and as described it should be in
> like new condition! Since parts are virtually non existent where I
> live, I always like to keep some spares on hand. I have already
> ordered a new set of finals and a driver. I would like to get a
> replacement bandswitch coupling, but I searched the archives and
> could not find the OEM part number or where it can be ordered.
> Secondly, are there other parts prone to failure that I should pick
> up now rather than waiting until the day they fail? And finally, in
> an effort to keep this rig working for many more years, does it make
> more sense to just purchase a second TS-830 and use it for spares?
>
> Much Aloha from Maui
>
> Mike WA7YET

>
> --- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
> <mikeddy@> wrote:
> >
> > Bill
> >
> > I did indeed find one. The pictures look absolutely mint and
the
> > unit is described as fully functional with no dirt, dust or
smoke.
> > Time to hit the archives and get ready to check it out!
> >
> > Aloha
> >
> > Mike WA7YET
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> > <k0zl.ham@> wrote:
> > >
> > > Aloha, Mike!
> > >
> > > Well if you find one that has a few problems but is
unblemished,
> > consider
> > > getting it and fixing the problems; non-smoker's rig, maybe
> broken
> > > bandswitch coupling, some of the other issues that are
common to
> > these
> > > things and are easily repaired; that will broaden your base
of
> > available
> > > radios and may save you at least the shipping cost.
> > >
> > > You can go through the archives (got some free time? hi) and
see
> > what common
> > > things plague the 830 and then decide how "minty" you want
your
> > new rig to
> > > be and what things you could possibly accept and correct
once it
> > arrives.
> > >
> > > 73!
> > >
> > > Bill K0ZL
> > >
> > >
> > > On 6/24/06, soldonparadise <mikeddy@> wrote:

> > > >
> > > > I am new to the group and wanted to introduce myself. I
> have
> > been
> > > > absent from ham radio for many years and recently have had
a
> > renewed
> > > > interest in the hobby. I researched all of the latest
> equipment
> > and
> > > > nothing moves me like the rigs from my early days. I have
> > decided to
> > > > try and find an abosolute mint TS-830S and build my
station
> > around it.
> > > > While I wait to find the perfect unit, I will continue to
> follow
> > this
> > > > forum to learn about the operation/restoration of my "new"
> radio.
> > > > Thank you in advance for your support, and the wonderful
> wealth
> > of
> > > > information provided on this forum.
> > > >
> > > > Aloha from Maui Hawaii.
> > > >
> > > > A Hui Ho
> > > >
> > > > Mike WA7YET
> > > >
> > > >
> > > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8109. Re: [TS-520_820_530_830] Will the VFO820 work with my TS-520S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-02 03:55:59 UTC
From: Kelly Maiden
Topic: 8105 Message: 8109

Your VFO 820 will work just fine with the 520. The cables are identical
to the VFO 520.
Enjoy.

leonhutto wrote:

> Can anyone answer this? I would like to use a VFO820 with my 520S
> transceiver, but I can't find anything that confirms whether these
> units are compatible.
>
> Can anyone answer and/or point me to a document that gives a definite
> answer to my question?
>
> Thanks!
>
>

[Non-text portions of this message have been removed]

8110. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-02 05:13:16 UTC
From: Charles Mortimer
Topic: 8050 Message: 8110

it certainly does make sense if you can get one at the right price a non worker but complete would be a good bet invaluable source of spares
Chas.

----- Original Message -----
From: "soldonparadise" <mikeddy@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, July 02, 2006 1:54 AM
Subject: [TS-520_820_530_830] Re: Aloha from Maui

> My "new" TS-830S is on it's way, and as described it should be in
> like new condition! Since parts are virtually non existent where I
> live, I always like to keep some spares on hand. I have already
> ordered a new set of finals and a driver. I would like to get a
> replacement bandswitch coupling, but I searched the archives and
> could not find the OEM part number or where it can be ordered.
> Secondly, are there other parts prone to failure that I should pick
> up now rather than waiting until the day they fail? And finally, in
> an effort to keep this rig working for many more years, does it make
> more sense to just purchase a second TS-830 and use it for spares?
>
> Much Aloha from Maui
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
> <mikeddy@...> wrote:
>>
>> Bill
>>
>> I did indeed find one. The pictures look absolutely mint and the
>> unit is described as fully functional with no dirt, dust or smoke.
>> Time to hit the archives and get ready to check it out!
>>
>> Aloha
>>
>> Mike WA7YET
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
>> <k0zl.ham@> wrote:
>> >
>> > Aloha, Mike!
>> >
>> > Well if you find one that has a few problems but is unblemished,

>> consider
>> > getting it and fixing the problems; non-smoker's rig, maybe
> broken
>> > bandswitch coupling, some of the other issues that are common to
>> these
>> > things and are easily repaired; that will broaden your base of
>> available
>> > radios and may save you at least the shipping cost.
>> >
>> > You can go through the archives (got some free time? hi) and see
>> what common
>> > things plague the 830 and then decide how "minty" you want your
>> new rig to
>> > be and what things you could possibly accept and correct once it
>> arrives.
>> >
>> > 73!
>> >
>> > Bill K0ZL
>> >
>> >
>> > On 6/24/06, soldonparadise <mikeddy@> wrote:
>> > >
>> > > I am new to the group and wanted to introduce myself. I
> have
>> been
>> > > absent from ham radio for many years and recently have had a
>> renewed
>> > > interest in the hobby. I researched all of the latest
> equipment
>> and
>> > > nothing moves me like the rigs from my early days. I have
>> decided to
>> > > try and find an abosolute mint TS-830S and build my station
>> around it.
>> > > While I wait to find the perfect unit, I will continue to
> follow
>> this
>> > > forum to learn about the operation/restoration of my "new"
> radio.
>> > > Thank you in advance for your support, and the wonderful
> wealth
>> of
>> > > information provided on this forum.
>> > >
>> > > Aloha from Maui Hawaii.
>> > >
>> > > A Hui Ho
>> > >
>> > > Mike WA7YET

>> > >
>> > >
>> > >
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8111. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-02 13:27:31 UTC
From: Bill Leahy
Topic: 8050 Message: 8111

Mike,

The part number is D22-0409-05, still available from www.pacparts.com

The old part number D22-0402-05 was discontinued; update your service manual when you get one.

73

Bill K0ZL

On 7/1/06, soldonparadise <mikeddy@...> wrote:
>
>
>
>
>
>
>
> My "new" TS-830S is on it's way, and as described it should be in
> like new condition! Since parts are virtually non existent where I
> live, I always like to keep some spares on hand. I have already
> ordered a new set of finals and a driver. I would like to get a
> replacement bandswitch coupling, but I searched the archives and
> could not find the OEM part number or where it can be ordered.
> Secondly, are there other parts prone to failure that I should pick
> up now rather than waiting until the day they fail? And finally, in
> an effort to keep this rig working for many more years, does it make
> more sense to just purchase a second TS-830 and use it for spares?
>
> Much Aloha from Maui
>
>

8112. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-02 18:12:24 UTC
From: soldonparadise
Topic: 8050 Message: 8112

Thank you Bill. Unfortunately, they are now out of stock. I found
that Ken (K4EAA) machines his own and has them readily available.

73 & Aloha

Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
<k0zl.ham@...> wrote:
>
> Mike,
>
> The part number is D22-0409-05, still available from
www.pacparts.com
>
> The old part number D22-0402-05 was discontinued; update your
service
> manual when you get one.
>
> 73
>
> Bill K0ZL
>
> On 7/1/06, soldonparadise <mikeddy@...> wrote:
> >
> >
> >
> >
> >
> >
> >
> > My "new" TS-830S is on it's way, and as described it should be in
> > like new condition! Since parts are virtually non existent where
I
> > live, I always like to keep some spares on hand. I have already
> > ordered a new set of finals and a driver. I would like to get a
> > replacement bandswitch coupling, but I searched the archives and
> > could not find the OEM part number or where it can be ordered.
> > Secondly, are there other parts prone to failure that I should
pick
> > up now rather than waiting until the day they fail? And finally,
in
> > an effort to keep this rig working for many more years, does it
make
> > more sense to just purchase a second TS-830 and use it for
spares?

> >
> > Much Aloha from Maui
> >
> >
>

8113. Antenna Re-use

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 00:07:01 UTC
From: digs4ruff
Topic: 8113 Message: 8113

Good afternoon

Walt has been helping me offline but I thought that a few people might benefit from this discussion. If it is too far off topic the moderator can delete it.

I have an old CB antenna I would like to use for 10M. It is a ground plane vertical. I have uploaded photos to the VA7GEM folder. The vertical element is 272cm-275cm depending if I measure to the top of the insulator or to the mounting bracket. The radials are 267.5cms to the centre of the vertical. There is a U shaped connection from vertical to the bracket. I don't know what this is for or what effect it has on the resonant frequency. The SWR currently is fairly flat from 26.000Mhz-29.7MHZ - around 1.3:1

I have been monitoring 28.4Mhz and 28.8Mhz for a couple of days and have heard nothing. I have tried the CB channels as my 2nd rig,an AR-3500 is capable of this, and other than one faint conversation in a foreign language I have heard nothing. Is CB still used. I am at 1000' elevation overlooking Vancouver so would expect to hear some traffic.

My Kenwood dip meter indicates a dip at 31.5Mhz.

The question is should I just use the antenna the way it is or is there some changes that need to be made.
Thanks
Barry VA7GEM

8114. Re: [TS-520_820_530_830] Antenna Re-use

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 00:24:47 UTC
From: agoodridge
Topic: 8113 Message: 8114

G'day Barry

I would use the antenna the way it is or put up a simple 10 meter dipole antenna, i.e half wave or a full wave, which is rather like an end fend diople, fed one quarter wavelength from one end with three quarters of a wavelength on the other side of the antenna.

Best to use a 4 to 1 balun and coax to feed this type of antenna, and they have useful gain, about 5dbd.

As for the use of CB,

here is Australia HF is very quiet at the moment, I am a licensed VK2 operator and HF is quiet everywhere.

On the cb band the usual people are around but only about half a dozen.

When the DX is rolling in it picks up a bit.

10 Meters is dead at the moment as well, but it will pick up.

At 1000 feet you should hear something, although it may be that vancouver has very littel cb traffic compared to the United States.

If there is no sun spot activity you would only hear local stations anyway, if there are very few around, as it seems, then the silence is normal.

I know people who can communicate from one side of Sydney to the other now on 12 watts ssb, a distance of around 60 kilometers of 37 miles, because the band is so quiet.

Not like the late 70's!

73
Anthony
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 03, 2006 10:07 AM
Subject: [TS-520_820_530_830] Antenna Re-use

Good afternoon

Walt has been helping me offline but I thought that a few people
might benefit from this discussion. If it is too far off topic the
moderator can delete it.

I have an old CB antenna I would like to use for 10M. It is a ground
plane vertical. I have uploaded photos to the VA7GEM folder. The
vertical element is 272cm-275cm depending if I measure to the top of
the insulator or to the mounting bracket. The radials are 267.5cms

to the centre of the vertical. There is a U shaped connection from vertical to the bracket. I don't know what this is for or what effect it has on the resonant frequency. The SWR currently is fairly flat from 26.000Mhz-29.7MHZ - around 1.3:1

I have been monitoring 28.4Mhz and 28.8Mhz for a couple of days and have heard nothing. I have tried the CB channels as my 2nd rig,an AR-3500 is capable of this, and other than one faint conversation in a foreign language I have heard nothing. Is CB still used. I am at 1000' elevation overlooking Vancouver so would expect to hear some traffic.

My Kenwood dip meter indicates a dip at 31.5Mhz.

The question is should I just use the antenna the way it is or is there some changes that need to be made.
Thanks
Barry VA7GEM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.8/380 - Release Date: 30/06/2006

[Non-text portions of this message have been removed]

8115. Antenna question...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 00:48:50 UTC
From: kc2aup@arrl.net
Topic: 8115 Message: 8115

I have a question for the group.....

I have not yet experienced the use of a long wire. I am used to using a dipole set up on my roof for HF communications. For the past 6 years or so, I have had nothing but good luck with this.

I had 4 sets of dipoles for the 10 thru 40 meter band fed into a 1:1 balun about 35 feet up and run 50 feet of coax to my shack. Never had a problem. I replaced the wires about 2 years ago and fine tuned everything. Seemed like the wires stretched out a little.

Now for my question. I had sell my house and move into a condo complex. There are antenna rules here for external antennas. I trust some of you know what I am talking about. However, my back door and deck face the woods. Someone told me to just throw up a 200 foot wire over the tops of the trees and just let it hang wherever it lands. (I am going to tie there wire up to an arrow and shoot it over the trees to get the distance.

The other end is going to come down into a connector. I guess I would solder the wire to the center conductor to a female type PL258, mount it to a plate and hook it up to a ground rod in the ground. A piece of coax will bring it into the house for operations.

Will something like this work? Like I said, never used a long wire before...

Frank
kc2aup

[Non-text portions of this message have been removed]

8116. Re: [TS-520_820_530_830] Antenna question...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 01:00:18 UTC
From: agoodridge
Topic: 8115 Message: 8116

G'day Frank,

it will work, it is jusyt a random length wire antenna.

I would make sure that it is at least a half wave long on your lowest operating frequency, i.e 160m, 80 meters long etc.

Make sure that there is a good earth attached to the outside of the pl259 connector.

You will no doubt have to use an antenna tuner, but it should tune up fine and should resonate quite well!

good luck

73
anthony
VK2
----- Original Message -----
From: kc2aup@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 03, 2006 10:48 AM
Subject: [TS-520_820_530_830] Antenna question...

I have a question for the group.....

I have not yet experienced the use of a long wire. I am used to using a dipole set up on my roof for HF communications. For the past 6 years or so, I have had nothing but good luck with this.

I had 4 sets of dipoles for the 10 thru 40 meter band fed into a 1:1 balun about 35 feet up and run 50 feet of coax to my shack. Never had a problem. I replaced the wires about 2 years ago and fine tuned everything. Seemed like the wires stretched out a little.

Now for my question. I had sell my house and move into a condo complex. There are antenna rules here for external antennas. I trust some of you know what I am talking about. However, my back door and deck face the woods. Someone told me to just throw up a 200 foot wire over the tops of the trees and just let it hang wherever it lands. (I am going to tie there wire up to an arrow and shoot it over the trees to get the distance.

The other end is going to come down into a connector. I guess I would solder the wire to the center conductor to a female type PL258, mount it to a plate and hook it up to a ground rod in the ground. A piece of coax will bring it into the house for operations.

Will something like this work? Like I said, never used a long wire before...

Frank
kc2aup

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.8/380 - Release Date: 30/06/2006

[Non-text portions of this message have been removed]

8117. Re: Antenna question...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 02:47:13 UTC
From: Ellen R
Topic: 8115 Message: 8117

Hi Frank,

As Anthony said, it'll work. I can verify this first hand. I've been funning variations on this theme for an antennas, since the mid 90s. Basically, it's a 1/4 wave or longer on 160m, and I run as long a counterpoise as I can, and use an MFJ Artificial Ground (basically a counterpoise tuner). It works well on some bands (especially the higher HF bands), on some bands (typically 80 & 160m), it only gets by. But I do put out a signal on these bands.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "agoodridge" <agoodridge@...> wrote:
>
> G'day Frank,
>
> it will work, it is jusyt a random length wire antenna.
>
> I would make sure that it is at least a half wave long on your lowest operating frequency, i.e 160m, 80 meters long etc.
>
> Make sure that there is a good earth attached to the outside of the pl259 connector.
>
> You will no doubt have to use an antenna tuner, but it should tune up fine and should resonate quite well!
>
> good luck
>
> 73
> anthony
> VK2
> ----- Original Message -----
> From: kc2aup@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, July 03, 2006 10:48 AM
> Subject: [TS-520_820_530_830] Antenna question...
>
>
>
> I have a question for the group.....
>
> I have not yet experienced the use of a long wire. I am used to using a

> dipole set up on my roof for HF communications. For the past 6
years or so, I
> have had nothing but good luck with this.
>
> I had 4 sets of dipoles for the 10 thru 40 meter band fed into a
1:1 balun
> about 35 feet up and run 50 feet of coax to my shack. Never had a
problem. I
> replaced the wires about 2 years ago and fine tuned everything.
Seemed like
> the wires stretched out a little.
>
> Now for my question. I had sell my house and move into a condo
complex.
> There are antenna rules here for external antennas. I trust some
of you know
> what I am talking about. However, my back door and deck face the
woods.
> Someone told me to just throw up a 200 foot wire over the tops of
the trees and
> just let it hang wherever it lands. (I am going to tie there wire
up to an
> arrow and shoot it over the trees to get the distance.
>
> The other end is going to come down into a connector. I guess I
would
> solder the wire to the center conductor to a female type PL258,
mount it to a
> plate and hook it up to a ground rod in the ground. A piece of
coax will bring
> it into the house for operations.
>
> Will something like this work? Like I said, never used a long
wire before...
>
> Frank
> kc2aup
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.

> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.9.8/380 - Release Date:
30/06/2006
>
>
> [Non-text portions of this message have been removed]
>

8118. antenna question..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 04:32:32 UTC
From: Gerald R.Gaule
Topic: 8118 Message: 8118

THIS IS KE7GGV...I have a KENWOOD/TRIO TS820 S....I do not have much height for a G5RV...because of many powerlines on my small home/lot...

I was thinking of a wire"homebrew"antenna or such...because of the height required....or would a VERTICAL work what would work the best..I plan to use 10-40M..Maybe up top 80 M...something easy to build...as my first antenna...I WELCOME ANY IDEAS...TIPS OR PLANS...thisis my first HF rig....

I do have an extra SWR/TUNER...I am open to suggestions or plans...that I can be proud of to build...

On RIXPIX it says this model goes up to 100 watts but in the Manual it says 200 WATTS PEP....what is the lowest power output....

I am limited by height....would a random wire work...

I thank you..please write...THX-DE-KE7GGV-73

Write to me at

ke7ggv@...

I also welcome any WORD DOC or PDF FILES for antennas...that are either stealthy or will help me...AGAIN I THANK YOU...

http://www.qrz.com/callsign/KE7GGV
ECHOLINK NODE # 283278
http://www.echolink.org
http://groups.yahoo.com/group/HAM-APNEACS/

8119. Re: [TS-520_820_530_830] antenna question..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 06:01:28 UTC
From: agoodridge
Topic: 8118 Message: 8119

G'day gerald.

A good long wire antenna at about 20 feet off the ground with a good earth would work wonders, as for power output, the Kenwood has an INPUT of 200 watts, and output of 100 watts.

Only a handfull of HF radios put out 200 watts,

I have an icom 751 that puts out about 140 watts and a TS120 that tops at 125 watts, but they are both rare, radios like the old Yaesu FT200 DX, do put out 200 watts, but the difference between 100 watts and 200 watts is very littel at the recieving end.

Believe it or not.

73s
Anthony
----- Original Message -----
From: Gerald R.Gaule
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 03, 2006 2:32 PM
Subject: [TS-520_820_530_830] antenna question..

THIS IS KE7GGV...I have a KENWOOD/TRIO TS820 S....I do not have much height for a G5RV...because of many powerlines on my small home/lot...

I was thinking of a wire"homebrew"antenna or such...because of the height required....or would a VERTICAL work what would work the best..I plan to use 10-40M..Maybe up top 80 M...something easy to build...as my first antenna...I WELCOME ANY IDEAS...TIPS OR PLANS...thisis my first HF rig....

I do have an extra SWR/TUNER...I am open to suggestions or plans...that I can be proud of to build...

On RIXPIX it says this model goes up to 100 watts but in the Manual it says 200 WATTS PEP....what is the lowest power output....

I am limited by height....would a random wire work...

I thank you..please write...THX-DE-KE7GGV-73

Write to me at

ke7ggv@...

I also welcome any WORD DOC or PDF FILES for antennas...that are either stealthy or will help me...AGAIN I THANK YOU...

http://www.qrz.com/callsign/KE7GGV
ECHOLINK NODE # 283278
http://www.echolink.org
http://groups.yahoo.com/group/HAM-APNEACS/

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.8/380 - Release Date: 30/06/2006

[Non-text portions of this message have been removed]

8120. Re: [TS-520_820_530_830] antenna question..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 08:05:02 UTC
From: Charles Mortimer
Topic: 8118 Message: 8120

hallo Gerald I realize you wont to make your own antenna
the best antenna for limited space is a butternut HF6V try and get hold
of a second hand one and rebuild it and work it at ground level 32ft high
then experiment with traps dipoles magnetic loops and EH antennas
with a postage stamp size yard a good manual a.t.u. roller coaster
I think you will find that piece of equipment a must personally I would
stay away from automatic atu you will have more control with a manual
a.t.u.
----- Original Message -----
From: "agoodridge" <agoodridge@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, July 03, 2006 2:01 PM
Subject: Re: [TS-520_820_530_830] antenna question..

> G'day gerald.
>
> A good long wire antenna at about 20 feet off the ground with a good earth
> would work wonders, as for power output, the Kenwood has an INPUT of 200
> watts, and output of 100 watts.
>
> Only a handfull of HF radios put out 200 watts,
>
> I have an icom 751 that puts out about 140 watts and a TS120 that tops at
> 125 watts, but they are both rare, radios like the old Yaesu FT200 DX, do
> put out 200 watts, but the difference between 100 watts and 200 watts is
> very littel at the recieving end.
>
> Believe it or not.
>
> 73s
> Anthony
> ----- Original Message -----
> From: Gerald R.Gaule
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, July 03, 2006 2:32 PM
> Subject: [TS-520_820_530_830] antenna question..
>
>
> THIS IS KE7GGV...I have a KENWOOD/TRIO TS820 S....I do not have much
> height for a G5RV...because of many powerlines on my small
> home/lot...
>
> I was thinking of a wire"homebrew"antenna or such...because of the
> height required....or would a VERTICAL work what would work the
> best..I plan to use 10-40M..Maybe up top 80 M...something easy to

> build...as my first antenna...I WELCOME ANY IDEAS...TIPS OR
> PLANS...thisis my first HF rig....
>
> I do have an extra SWR/TUNER...I am open to suggestions or
> plans...that I can be proud of to build...
>
> On RIXPIX it says this model goes up to 100 watts but in the Manual
> it says 200 WATTS PEP....what is the lowest power output....
>
> I am limited by height....would a random wire work...
>
> I thank you..please write...THX-DE-KE7GGV-73
>
> Write to me at
>
> ke7ggv@...
>
> I also welcome any WORD DOC or PDF FILES for antennas...that are
> either stealthy or will help me...AGAIN I THANK YOU...
>
> http://www.qrz.com/callsign/KE7GGV
> ECHOLINK NODE # 283278
> http://www.echolink.org
> http://groups.yahoo.com/group/HAM-APNEACS/
>
>
>
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.9.8/380 - Release Date: 30/06/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>

8121. Re: Antenna question...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 12:19:58 UTC
From: lajes67
Topic: 8115 Message: 8121

Good Morning Frank;
When I first got my license, one of the guys I worked with gave me my 1st station, a home brewed receiver, a Heathkit Apachie, about 150 ft of cross connection wire and a homemade LC tuner. To make it short, I ran out 135ft of wire, probably 15ft off the ground, it wasn't even close to being in a straight line. One end was skinned and stuck under a clip and then I moved the clip to different spots on the coil and adjusted the variable cap. until the sound was loudest in the receiver, and don't forget, this was using a manual T/R switch! Hey!, it worked great on 80 and 40 but nowadays I wouldn't dream of trying that without someway of checking the SWR. The ground was nothing more than a wire hooked to the radiator. I still don't know how I survived, luck I guess.
73...John K2IZ--- In TS-520_820_530_830@yahoogroups.com, kc2aup@... wrote:
>
>
> I have a question for the group.....
>
> I have not yet experienced the use of a long wire. I am used to using a
> dipole set up on my roof for HF communications. For the past 6 years or so, I
> have had nothing but good luck with this.
>
> I had 4 sets of dipoles for the 10 thru 40 meter band fed into a 1:1 balun
> about 35 feet up and run 50 feet of coax to my shack. Never had a problem. I
> replaced the wires about 2 years ago and fine tuned everything. Seemed like
> the wires stretched out a little.
>
> Now for my question. I had sell my house and move into a condo complex.
> There are antenna rules here for external antennas. I trust some of you know
> what I am talking about. However, my back door and deck face the woods.
> Someone told me to just throw up a 200 foot wire over the tops of the trees and
> just let it hang wherever it lands. (I am going to tie there wire up to an
> arrow and shoot it over the trees to get the distance.
>

> The other end is going to come down into a connector. I guess I
would
> solder the wire to the center conductor to a female type PL258,
mount it to a
> plate and hook it up to a ground rod in the ground. A piece of
coax will bring
> it into the house for operations.
>
> Will something like this work? Like I said, never used a long
wire before...
>
> Frank
> kc2aup
>
>
> [Non-text portions of this message have been removed]
>

8122. Re: [TS-520_820_530_830] antenna question..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 12:32:42 UTC
From: Stephen Goldberg
Topic: 8118 Message: 8122

For many years ran with a wire that went thru a hole in the wall, up the side of the house, across the roof and then down to the fence in my small back yard. Altogether about 100 feet of wire. Used an MFJ tuner with my TS-530s for operation on 80 thru 10 meters. Worked the world with it.

Steve W4IMF

----- Original Message -----
From: Gerald R.Gaule
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 03, 2006 12:32 AM
Subject: [TS-520_820_530_830] antenna question..

THIS IS KE7GGV...I have a KENWOOD/TRIO TS820 S....I do not have much height for a G5RV...because of many powerlines on my small home/lot...

I was thinking of a wire"homebrew"antenna or such...because of the height required....or would a VERTICAL work what would work the best..I plan to use 10-40M..Maybe up top 80 M...something easy to build...as my first antenna...I WELCOME ANY IDEAS...TIPS OR PLANS...thisis my first HF rig....

I do have an extra SWR/TUNER...I am open to suggestions or plans...that I can be proud of to build...

On RIXPIX it says this model goes up to 100 watts but in the Manual it says 200 WATTS PEP....what is the lowest power output....

I am limited by height....would a random wire work...

I thank you..please write...THX-DE-KE7GGV-73

Write to me at

ke7ggv@...

I also welcome any WORD DOC or PDF FILES for antennas...that are either stealthy or will help me...AGAIN I THANK YOU...

http://www.qrz.com/callsign/KE7GGV
ECHOLINK NODE # 283278
http://www.echolink.org
http://groups.yahoo.com/group/HAM-APNEACS/

--
Certified Virus Free.
Checked by AVG Free Edition.

Version: 7.1.394 / Virus Database: 268.9.8/380 - Release Date: 6/30/06

8123. Re: [TS-520_820_530_830] Antenna question...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 12:45:44 UTC
From: Richard Harris
Topic: 8115 Message: 8123

Frank,

I have 130 ft approx long wire that goes into a small wood at the rear of my shack for almost all of its length. However, it is tied to various branches using antenna insulators rather than resting on branches. I tune it up against mains earth. The average height is about 10 or 12 ft and works well. It is very good for working around the UK on 80m and I have managed UK to USA on 80m and 160m.

One downside is that I have to cut back the tree growth around the antenna once a year!

Although pi-networks allow you to tune into a wide range of antenna impedances, I recommend that you use an ATU (I use the AT-230). I had to wind an air-cored auto-transformer to get match on 80m with the ATU because the impedance is so high (being almost exactly a half-wave). I use black PVC insulated wire and the antenna is almost invisible - I couldn't see it last weekend and I know where it is....

I also have a 20m dipole at a similar height and that antenna works well Don't be discouraged if you can't get your antenna very high.

Richard G3OTK

At 20:48 02/07/2006 -0400, you wrote:

>I have a question for the group.....
>
>I have not yet experienced the use of a long wire. I am used to using a
>dipole set up on my roof for HF communications. For the past 6 years or so, I
>have had nothing but good luck with this.
>
>I had 4 sets of dipoles for the 10 thru 40 meter band fed into a 1:1 balun
>about 35 feet up and run 50 feet of coax to my shack. Never had a problem. I
>replaced the wires about 2 years ago and fine tuned everything. Seemed like
>the wires stretched out a little.
>
>Now for my question. I had sell my house and move into a condo complex.
>There are antenna rules here for external antennas. I trust some of you know
>what I am talking about. However, my back door and deck face the woods.
>Someone told me to just throw up a 200 foot wire over the tops of the
>trees and
>just let it hang wherever it lands. (I am going to tie there wire up to an
>arrow and shoot it over the trees to get the distance.
>
>The other end is going to come down into a connector. I guess I would
>solder the wire to the center conductor to a female type PL258, mount it to a

>plate and hook it up to a ground rod in the ground. A piece of coax will
>bring
>it into the house for operations.
>
>Will something like this work? Like I said, never used a long wire before...
>
>Frank
>kc2aup
>
>[Non-text portions of this message have been removed]
>
>

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh
SO53 4DG
United Kingdom

Tel +44 (0) 2380 240250
Direct +44 (0) 2380 240267
Mobile +44 (0) 7808 935630
Fax +44 (0) 2380 240251

Web site www.pipstechnology.com

=====Confidentiality Notice=====
This electronic mail message and any attachment may contain information
that is legally privileged, confidential or exempt from disclosure.
It is intended only for the use of the individual or organisation to whom
it is addressed. If you are not the intended recipient it is strictly
prohibited to disclose, use, store or copy this information

========================

[Non-text portions of this message have been removed]

8124. Kenwood International User's Club back issues (way back)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 15:09:58 UTC
From: Budd
Topic: 8124 Message: 8124

Doing some cleaning. Found issues of the Kenwood International User's Club Newsletter from #1 (2/80) -> 60 (1/86). Looking for a new reference home.
They cover service notes, hints, mods & reviews from MC-50, 60, 80, TR-50, TS-120, 130, 180, 221, 441, 430, 520, 530, 599, 660, 711, 811, 820, 830, 930, 940, TR-2400, 2500, 2600, R-1000, 7400, 7500, 7730, 7800, 7850, 7950, 9000, 9130
Please contact me off list
73
Budd : N7EOJ@...

8125. Re: My second TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 18:34:29 UTC
From: Gordon
Topic: 8089 Message: 8125

Hi Bill and Group,
I received my New 6146W-MP Phillips/ECG Matched tubes from RF parts this morning. I put them in, set the bias current, neutralized them and then checked how much bias I could crank up to (Very QUICKLY). I now can get 200 ma of bias, but I set it back to 60. The tubes are giving me about 120 watts out and the bias stays steady now. Also, output is the same Hot or cold.
Bill, you and Walt were right. It was the Finals.
Thanks again for your advice guys. Looks like it's time to put the covers on and use the rig for a bit before I sell this one.
Now I am waiting to get the 830 I have coming this week to start another project.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...> wrote:
>
> Gordon, chances are good that one of the final tubes is changing around as
> it heats up. They are mechanical devices, with significant bit of wire and
> associated supporting structure; what you describe as a change in
> neutralization means only that the internal grid structure of one or both
> tubes is changing with heat.
>
> I wouldn't worry about it, you may have quite a bit of hours left in those
> tubes. Set your idle current to 45mA cold, and leave it at that; 30 mills is
> enough to avoid splatter I have found.
>
> If you run only CW you can set your idle current to cutoff and run even more
> efficiently. Just don't forget to set it back for fone, hi!
>
> 73,
>
> Bill K0ZL
>
>
> On 6/29/06, Gordon <n6wk@...> wrote:
> >
> > Hi guys and girls,

> >
> > I am still working on this old TS-820. I have discovered that the
> > Grid Bias seems to rise as the rig gets warmer. After 10 minutes, it
> > does NOT seem to go any further. When Cold, I can set the idle bias to
> > 60 ma. I then tune the rig. Output is only about 70 to 80 watts. As a
> > few more minutes go by, I can recheck and get the full 100 watts out,
> > But I then notice that the Bias current has risen to 75 or 80 ma.
> > Turning it back down to 60 still gives me 100 watts output, but the
> > next time I turn the rig on, the Idle Bias is down to 45 or so.
> > I noticed something today, well actually 2 things. One is that when I
> > switch to USB and check the idle current when cold, it is 60 ma, If I
> > plut a key in the back , switch the Vox on and select send, the CW
> > idle current is 10 to 15 ma Higher... is that Normal?
> > The second thing I am noticing is that as the rig gets warmer and
> > warmer, the plate DIP does NO longer matches the higest output, but
> > does when it's cool (under 3 or 4 minutes from being turned on.)
> > Now, I am suspecting finals, but I would like you guys to give me
> > your opinions also.
> > The Cathode resistors look and check good. Plate voltage (key down
> > under full load) is about 790 volts and at maximum output (about 100
> > watts) I show 200 -210 ma. I have changed the driver 3 times, but NOT
> > the finals yet. The rig sends out good clean signals on CW and SSB
> > but this varying bias has me puzzled.
> > Any Ideas guys and Girls ??
> >
> > Gordon
> > N6WK
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8126. Is it just a dirty mode switch? Thought I'd cleaned it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 20:58:37 UTC
From: Roberto Baca Barnard
Topic: 8126 Message: 8126

My new Inrad CW filter is great...but...I'm suddenly noticing sporadic changes on the thing. Steep skirts one time, less so another. Sounds very narrow, then doesn't. CW position contacts dirty? Thought I'd cleaned 'em ALL with De-oxit. Is this a dumb question? Tnx

8127. TS-820 HV Filter Capacitors needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-03 21:04:33 UTC
From: ab8rl
Topic: 8127 Message: 8127

I am in need of 2 new HV filter capacitors in the 800V power supply.
Does anyone know of a source??? part numbers for replacement. I think
they are 500 Volt capacitors at ???? uF???

Thank you

Tom AB8RL

8128. 2 really stupid questions!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 01:01:59 UTC
From: m_m_maxau
Topic: 8128 Message: 8128

Hey guys,

Sorry about this.

I need to aks two questions,

1) I have a TS820 that is deaf, not totally, but no where as good as my 520,

I have tuned everything up as per the service manual, but it is still deaf, any ideas what to look for next?

I have thought maybe bad caps, but before I start replacing everything I thought I would ask around to see if anyone else had the same issues?

2) I have to neutralize the finals in the TS520, that just cooked the finals and driver, but, call me dumb, I can't work out the sequence from the service manual, my copy is quite bad and difficult to read, any tips/

Thanks guys

73s
Anthony

8129. GOLD EMBLEM??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 01:18:16 UTC
From: ab8rl
Topic: 8129 Message: 8129

What is a TS-830 GOLD EMBLEM??? Did two models exist??? a Gold Emblem and non-gold emblem??? what are the differences if any???

Tom

8130. Re: GOLD EMBLEM??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 01:43:33 UTC
From: Gordon
Topic: 8129 Message: 8130

Tom,
I am pretty sure that the Only difference between the TS-830 and the TS-830 "GOLD" is just the GOLD. ie. The gold Lettering and the Gold Knob. I know of NO other Differences in the two rigs !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "ab8rl" <ab8rl@...> wrote:
>
> What is a TS-830 GOLD EMBLEM??? Did two models exist??? a Gold Emblem
> and non-gold emblem??? what are the differences if any???
>
> Tom
>

8132. Re: 2 really stupid questions!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 01:42:04 UTC
From: Gordon
Topic: 8128 Message: 8132

Anthony,
I would think perhaps some bad contacts in the switches might be
causing your Low receive. Try cleaning all the band switches with De Oxit.

Also, If you can't read your manual to neutralize the finals, go to
http://www.n6wk.com/kenwood and download the TS-820 service manual or
the ts-820 Users manual. They are legible and give you a step by
step. Neutralizing the Finals is Really VERY easy, but Be Careful !!
HIGH VOLTAGE in that Cage !!!!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
>
> Hey guys,
>
> Sorry about this.
>
> I need to aks two questions,
>
> 1) I have a TS820 that is deaf, not totally, but no where as good as
> my 520,
>
> I have tuned everything up as per the service manual, but it is still
> deaf, any ideas what to look for next?
>
> I have thought maybe bad caps, but before I start replacing everything
> I thought I would ask around to see if anyone else had the same issues?
>
> 2) I have to neutralize the finals in the TS520, that just cooked the
> finals and driver, but, call me dumb, I can't work out the sequence
> from the service manual, my copy is quite bad and difficult to read,
> any tips/
>
> Thanks guys
>
> 73s
> Anthony
>

8133. TS-520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 01:55:15 UTC
From: wb7_ssn
Topic: 4279 Message: 8133

Hello,

This really is a great group. There is more helpful traffic on this forum than any other that I bloong to, and I belong to quite a few others.

My question, I have a TS-520SE rig. What is the difference between a 520, 520S and a 520SE.

Thank you in advance.

73's
DW Holtman
WB7SSN

8134. Re: [TS-520_820_530_830] Re: GOLD EMBLEM??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 02:20:56 UTC
From: Peter A Markavage
Topic: 8129 Message: 8134

Gold Knob is got to be worth something. All my knobs are plastic.

Original Question:
NO DIFFERENCE

But some may feel better, and demand more money, when they're trying to
sell one.

Pete, wa2cwa

On Tue, 04 Jul 2006 01:43:33 -0000 "Gordon" <n6wk@...> writes:
Tom,
I am pretty sure that the Only difference between the TS-830 and the
TS-830 "GOLD" is just the GOLD. ie. The gold Lettering and the Gold
Knob. I know of NO other Differences in the two rigs !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "ab8rl" <ab8rl@...> wrote:
>
> What is a TS-830 GOLD EMBLEM??? Did two models exist??? a Gold Emblem
> and non-gold emblem??? what are the differences if any???
>
> Tom
>

[Non-text portions of this message have been removed]

8135. Re: [TS-520_820_530_830] Re: GOLD EMBLEM??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 03:19:36 UTC
From: dr7zyq
Topic: 8129 Message: 8135

The gold knob (KNB-1) was an option. To the best of my knowledge, it was never standard on any model.

I could be wrong -- wouldn't be the first time.

David, WA7ZYQ

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 03, 2006 6:43 PM
Subject: [TS-520_820_530_830] Re: GOLD EMBLEM??

Tom,
I am pretty sure that the Only difference between the TS-830 and the
TS-830 "GOLD" is just the GOLD. ie. The gold Lettering and the Gold
Knob. I know of NO other Differences in the two rigs !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "ab8rl" <ab8rl@...> wrote:
>
> What is a TS-830 GOLD EMBLEM??? Did two models exist??? a Gold Emblem
> and non-gold emblem??? what are the differences if any???
>
> Tom
>

[Non-text portions of this message have been removed]

8136. From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 03:10:49 UTC
From: Gerald R.Gaule
Topic: 8136 Message: 8136

I have a KENWOOD/TRIO TS820(S)....I tried to look up in the Manual...according to it there is NO POWER/RF output-level reading on the front meter(upper left)...how do you adjust the power level....what is the Min PEP and MAX PEP...output(and how to tell)....sorry to ask....THANK YOU...

THX-DE-KE7GGV-73

Ke7ggv@...

gaules@...

http://www.qrz.com/callsign/KE7GGV
ECHOLINK NODE # 283278
http://www.echolink.org
http://groups.yahoo.com/group/HAM-APNEACS/

8137. Re: [TS-520_820_530_830] Re: 2 really stupid questions!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 03:44:00 UTC
From: agoodridge
Topic: 8128 Message: 8137

G'day gordon

Thanks for the help.

I appreciate the tips.

73
Anthony
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 04, 2006 11:42 AM
Subject: [TS-520_820_530_830] Re: 2 really stupid questions!

Anthony,
I would think perhaps some bad contacts in the switches might be
causing your Low receive. Try cleaning all the band switches with De Oxit.

Also, If you can't read your manual to neutralize the finals, go to
http://www.n6wk.com/kenwood and download the TS-820 service manual or
the ts-820 Users manual. They are legible and give you a step by
step. Neutralizing the Finals is Really VERY easy, but Be Careful !!
HIGH VOLTAGE in that Cage !!!!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
>
> Hey guys,
>
> Sorry about this.
>
> I need to aks two questions,
>
> 1) I have a TS820 that is deaf, not totally, but no where as good as
> my 520,
>
> I have tuned everything up as per the service manual, but it is still
> deaf, any ideas what to look for next?
>
> I have thought maybe bad caps, but before I start replacing everything
> I thought I would ask around to see if anyone else had the same issues?
>
> 2) I have to neutralize the finals in the TS520, that just cooked the
> finals and driver, but, call me dumb, I can't work out the sequence

> from the service manual, my copy is quite bad and difficult to read,
> any tips/
>
> Thanks guys
>
> 73s
> Anthony
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.8/381 - Release Date: 3/07/2006

[Non-text portions of this message have been removed]

8138. Re: TS-520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 04:54:42 UTC
From: Ellen R
Topic: 4279 Message: 8138

Hi D.W.

Maybe this will help you. It's sort of a table.

RIG Bands Comments

TS-520 80-10m First in the 520 series. Options -
External VFO, desk mic, external speaker.
NO optional transverters. NO monitor scope, NO
phone patch. NO digital display unit.

TS-520S 160-10m Next in the 520 series. Options - external VFO;
6 & 2m transverters; desk mic; external speaker;
monitor scope; digital display unit; 500Hz CW
filter. NO Phone Patch

TS-520SE 160-10m Last in the 520 series. Options - external VFO;
external speaker; desk mic; digital display unit;
monitor scope; 500 Hz CW filter; phone patch.
520 SE has NO back jacks for the 6 & 2m
transverters available for the 520S. NO
transverters were marketed for the 520SE.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "wb7_ssn" <future212@...>
wrote:
>
> Hello,
>
> This really is a great group. There is more helpful traffic on this
> forum than any other that I bloong to, and I belong to quite a few
> others.
>
> My question, I have a TS-520SE rig. What is the difference between a
> 520, 520S and a 520SE.
>
> Thank you in advance.
>
> 73's
> DW Holtman
> WB7SSN
>

8139. Re: TS-820 HV Filter Capacitors needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 05:56:01 UTC
From: Mike
Topic: 8127 Message: 8139

Tom,

I just replaced the filter caps in my 830. I'm betting they are the same ones in the 820.

The original caps were labeled...

Marcon CE 60 W-A
100uf 500wv
Neg Black
1S20A

The Kenwood part # for C22, 24 from the 830 schematic is C90-0327-05. I couldn't find anyone stocking this part #.

I searched eBay for 100uf 500v capacitors and found these...

eBay item # 7616798092 (plug that number into the eBay search bar)

They are a bit pricey but they are nearly a perfect fit. The original clamps that hold the caps to the chassis don't quite close as far. (These caps are a tiny bit larger in diameter.) I had to drill a new hole in the chassis for the screw on one foot of each clamp. It sounds worse than it is. When finished the caps look like stock parts and are working fine.

This was on an 830 remember.

73........Mike...n2kms

--- In TS-520_820_530_830@yahoogroups.com, "ab8rl" <ab8rl@...> wrote:
>
> I am in need of 2 new HV filter capacitors in the 800V power supply.
> Does anyone know of a source??? part numbers for replacement. I think
> they are 500 Volt capacitors at ???? uF???
>
> Thank you
>
> Tom AB8RL
>

8140. TS830s Paint....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 09:13:15 UTC
From: cdp2408
Topic: 8140 Message: 8140

Hi Everyone,

Recently purchased TS830s which I have re-aligned and is now working pretty well. What I do remember seeing some time back when I lived in the UK was some Kenwood colour TS830s spray paint. - I need to get the upper and lower lid re-painted as they are in a real mess.

Can anyone point me in the right direction please?

Regards,

Chris Parnell
ZL1CDP

8141. Re: [TS-520_820_530_830] GOLD EMBLEM??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 09:17:16 UTC
From: Dave and Loraine
Topic: 8129 Message: 8141

Hi Tom,
See previous posts on this subject.
73 Dave F4EYK

8142. RE: [TS-520_820_530_830] Re: 2 really stupid questions!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 12:26:03 UTC
From: Ron Hauser
Topic: 8128 Message: 8142

Anthony, in addition to Gordon's good advice, you should definitely read Walt N9WB's comments on neutralization in the files section of this group. Actually read three of Walt's articles: Danger High Voltage, Save Your Power Transformer, and Neutralization.

I found those three to be very helpful in addition to the information in the 820 manual.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Monday, July 03, 2006 8:42 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 2 really stupid questions!

Anthony,
I would think perhaps some bad contacts in the switches might be causing your Low receive. Try cleaning all the band switches with De Oxit.

Also, If you can't read your manual to neutralize the finals, go to http://www.n6wk.com/kenwood and download the TS-820 service manual or the ts-820 Users manual. They are legible and give you a step by step. Neutralizing the Finals is Really VERY easy, but Be Careful !! HIGH VOLTAGE in that Cage !!!!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau" <agoodridge@...> wrote:
>
> Hey guys,
>
> Sorry about this.
>
> I need to aks two questions,
>
> 1) I have a TS820 that is deaf, not totally, but no where as good as
> my 520,
>
> I have tuned everything up as per the service manual, but it is still
> deaf, any ideas what to look for next?
>

> I have thought maybe bad caps, but before I start replacing everything
> I thought I would ask around to see if anyone else had the same issues?
>
> 2) I have to neutralize the finals in the TS520, that just cooked the
> finals and driver, but, call me dumb, I can't work out the sequence
> from the service manual, my copy is quite bad and difficult to read,
> any tips/
>
> Thanks guys
>
> 73s
> Anthony
>

Yahoo! Groups Links

8143. Re: [TS-520_820_530_830] Is it just a dirty mode switch? Thought I'd cleaned it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 12:46:50 UTC
From: Bill Leahy
Topic: 8126 Message: 8143

Possibility of solder bridge somewhere that is intermittantly connecting
both the narrow and the wider filters in parallel; check the board where you
installed the filter. Also if it's an 820, take a look at the IF unit
connections on the bottom of the board; there is a jumper that you move to
enable the CW narrow filter; it could be loose or dirty, or it could have a
bit of a wire "hair" on it that is shorting

b

On 7/3/06, Roberto Baca Barnard <barnardbaca@...> wrote:
>
> My new Inrad CW filter is great...but...I'm suddenly noticing sporadic
> changes on the thing. Steep skirts one time, less so another. Sounds
> very narrow, then doesn't. CW position contacts dirty? Thought I'd
> cleaned 'em ALL with De-oxit. Is this a dumb question? Tnx
>
>
>

[Non-text portions of this message have been removed]

8144. Re: [TS-520_820_530_830] From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 12:44:16 UTC
From: Bill Leahy
Topic: 8136 Message: 8144

The RF OUT meter reading on these rigs is relative; tune for max output into a dummy load and adjust the RF OUT pot in the back, upper right corner as the back is facing away from you, for about 80 percent deflection of the meter.

Then, if the meter pegs going into a real antenna, you know you have an swr problem; if it reads way low, you have a tuning or rig problem.

bill K0ZL

On 7/3/06, Gerald R.Gaule <gaules@...> wrote:
>
> I have a KENWOOD/TRIO TS820(S)....I tried to look up in the
> Manual...according to it there is NO POWER/RF output-level reading on
> the front meter(upper left)...how do you adjust the power level....what
> is the Min PEP and MAX PEP...output(and how to tell)....sorry to
> ask....THANK YOU...
>
> THX-DE-KE7GGV-73
>
> Ke7ggv@... <Ke7ggv%40comcast.net>
>
> gaules@... <gaules%40comcast.net>
>
> http://www.qrz.com/callsign/KE7GGV
> ECHOLINK NODE # 283278
> http://www.echolink.org
> http://groups.yahoo.com/group/HAM-APNEACS/
>
>
>

[Non-text portions of this message have been removed]

8145. Re: [TS-520_820_530_830] Re: TS-820 HV Filter Capacitors needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 12:41:15 UTC
From: Bill Leahy
Topic: 8127 Message: 8145

Look in the Databases section of the group and open up the parts database;
the caps are listed there. The Digikey number is exact diameter.

bill K0ZL

On 7/3/06, Mike <thred_kllr@...> wrote:
>
> Tom,
>
> I just replaced the filter caps in my 830. I'm betting they are the
> same ones in the 820.
>
> The original caps were labeled...
>
> Marcon CE 60 W-A
> 100uf 500wv
> Neg Black
> 1S20A
>
> The Kenwood part # for C22, 24 from the 830 schematic is C90-0327-
> 05. I couldn't find anyone stocking this part #.
>
> I searched eBay for 100uf 500v capacitors and found these...
>
> eBay item # 7616798092 (plug that number into the eBay search bar)
>
> They are a bit pricey but they are nearly a perfect fit. The
> original clamps that hold the caps to the chassis don't quite close
> as far. (These caps are a tiny bit larger in diameter.) I had to
> drill a new hole in the chassis for the screw on one foot of each
> clamp. It sounds worse than it is. When finished the caps look like
> stock parts and are working fine.
>
> This was on an 830 remember.
>
> 73........Mike...n2kms
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "ab8rl" <ab8rl@...> wrote:
> >
> > I am in need of 2 new HV filter capacitors in the 800V power
> supply.
> > Does anyone know of a source??? part numbers for replacement. I
> think

> > they are 500 Volt capacitors at ???? uF???
> >
> > Thank you
> >
> > Tom AB8RL
> >
>
>
>

[Non-text portions of this message have been removed]

8146. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 16:02:59 UTC
From: soldonparadise
Topic: 8050 Message: 8146

This is probably the dumbest question on the board. I finally got my new rig. Being excited to hear it work, I hooked up a piece of coax, attached about 50 feet of 24 ga solid bus wire that I had in my shack to the center pin of the PL-259, threw it over my 5th floor lanai, and.....NOTHING. Is it possible this very small gauge of wire is not enough to bring the sweet sound of your voices from around the world?

73 Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise" <mikeddy@...> wrote:
>
> Thank you Bill. Unfortunately, they are now out of stock. I found
> that Ken (K4EAA) machines his own and has them readily available.
>
> 73 & Aloha
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Mike,
> >
> > The part number is D22-0409-05, still available from
> www.pacparts.com
> >
> > The old part number D22-0402-05 was discontinued; update your
> service
> > manual when you get one.
> >
> > 73
> >
> > Bill K0ZL
> >
> > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >

> > > My "new" TS-830S is on it's way, and as described it should be
in
> > > like new condition! Since parts are virtually non existent
where
> I
> > > live, I always like to keep some spares on hand. I have already
> > > ordered a new set of finals and a driver. I would like to get a
> > > replacement bandswitch coupling, but I searched the archives
and
> > > could not find the OEM part number or where it can be ordered.
> > > Secondly, are there other parts prone to failure that I should
> pick
> > > up now rather than waiting until the day they fail? And
finally,
> in
> > > an effort to keep this rig working for many more years, does
it
> make
> > > more sense to just purchase a second TS-830 and use it for
> spares?
> > >
> > > Much Aloha from Maui
> > >
> > >
> >
>

8147. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 16:25:09 UTC
From: Ellen R
Topic: 8050 Message: 8147

Mike,

If you were just listening, did you peak the drive control for
maximum noise/signal? The circuits in the Kenwood hybrids are NOT
broadband. In some cases, if you're really way off of the peak, you
will literally hear nothing. Also, don't forget that you're 2500
miles from the mainland. At this part of the the solar cycle, condx.
are noting to write about. If it's light outside you may have to
listen on 15 or 20m, but even then you may have iffy days.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
<mikeddy@...> wrote:
>
> This is probably the dumbest question on the board. I finally got
my
> new rig. Being excited to hear it work, I hooked up a piece of
coax,
> attached about 50 feet of 24 ga solid bus wire that I had in my
> shack to the center pin of the PL-259, threw it over my 5th floor
> lanai, and.......NOTHING. Is it possible this very small gauge of
> wire is not enough to bring the sweet sound of your voices from
> around the world?
>
> 73 Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
> <mikeddy@> wrote:
> >
> > Thank you Bill. Unfortunately, they are now out of stock. I found
> > that Ken (K4EAA) machines his own and has them readily available.
> >
> > 73 & Aloha
> >
> > Mike WA7YET
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> > <k0zl.ham@> wrote:
> > >
> > > Mike,
> > >
> > > The part number is D22-0409-05, still available from

> > www.pacparts.com
> > >
> > > The old part number D22-0402-05 was discontinued; update your
> > service
> > > manual when you get one.
> > >
> > > 73
> > >
> > > Bill K0ZL
> > >
> > > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > My "new" TS-830S is on it's way, and as described it should
be
> in
> > > > like new condition! Since parts are virtually non existent
> where
> > I
> > > > live, I always like to keep some spares on hand. I have
already
> > > > ordered a new set of finals and a driver. I would like to get
a
> > > > replacement bandswitch coupling, but I searched the archives
> and
> > > > could not find the OEM part number or where it can be ordered.
> > > > Secondly, are there other parts prone to failure that I
should
> > pick
> > > > up now rather than waiting until the day they fail? And
> finally,
> > in
> > > > an effort to keep this rig working for many more years, does
> it
> > make
> > > > more sense to just purchase a second TS-830 and use it for
> > spares?
> > > >
> > > > Much Aloha from Maui
> > > >
> > > >
> > > >
> > >
> >
>

8148. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 16:39:51 UTC
From: soldonparadise
Topic: 8050 Message: 8148

Ellen

Initially I had forgotten how narrow these rigs are, but I did
finally think to peak the drive, which brought up the noise but no
signals. I will continue to listen on different bands at different
times of the day until I have a chance to attach a real antenna.

Aloha from Maui
Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Mike,
>
> If you were just listening, did you peak the drive control for
> maximum noise/signal? The circuits in the Kenwood hybrids are NOT
> broadband. In some cases, if you're really way off of the peak,
you
> will literally hear nothing. Also, don't forget that you're 2500
> miles from the mainland. At this part of the the solar cycle,
condx.
> are noting to write about. If it's light outside you may have to
> listen on 15 or 20m, but even then you may have iffy days.
>
> 73,
> Ellen - AF9J
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
> <mikeddy@> wrote:
> >
> > This is probably the dumbest question on the board. I finally
got
> my
> > new rig. Being excited to hear it work, I hooked up a piece of
> coax,
> > attached about 50 feet of 24 ga solid bus wire that I had in my
> > shack to the center pin of the PL-259, threw it over my 5th
floor
> > lanai, and.......NOTHING. Is it possible this very small gauge
of
> > wire is not enough to bring the sweet sound of your voices from
> > around the world?
> >
> > 73 Mike WA7YET

> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
> > <mikeddy@> wrote:
> > >
> > > Thank you Bill. Unfortunately, they are now out of stock. I
found
> > > that Ken (K4EAA) machines his own and has them readily
available.
> > >
> > > 73 & Aloha
> > >
> > > Mike WA7YET
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> > > <k0zl.ham@> wrote:
> > > >
> > > > Mike,
> > > >
> > > > The part number is D22-0409-05, still available from
> > > www.pacparts.com
> > > >
> > > > The old part number D22-0402-05 was discontinued; update
your
> > > service
> > > > manual when you get one.
> > > >
> > > > 73
> > > >
> > > > Bill K0ZL
> > > >
> > > > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > My "new" TS-830S is on it's way, and as described it
should
> be
> > in
> > > > > like new condition! Since parts are virtually non existent
> > where
> > > I
> > > > > live, I always like to keep some spares on hand. I have
> already
> > > > > ordered a new set of finals and a driver. I would like to

get
> a
> > > > > replacement bandswitch coupling, but I searched the
archives
> > and
> > > > > could not find the OEM part number or where it can be
ordered.
> > > > > Secondly, are there other parts prone to failure that I
> should
> > > pick
> > > > > up now rather than waiting until the day they fail? And
> > finally,
> > > in
> > > > > an effort to keep this rig working for many more years,
does
> > it
> > > make
> > > > > more sense to just purchase a second TS-830 and use it for
> > > spares?
> > > > >
> > > > > Much Aloha from Maui
> > > > >
> > > > >
> > > >
> > >
> >
>

8149. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 17:27:49 UTC
From: Peter A Markavage
Topic: 8050 Message: 8149

RF gain turned all the way up. Can you hear the calibrator? Is it oxygen
free wire? Did you adjust drive control for maximum noise?

On your previous question, Shaft Couplings:
Go here, they have them:
http://www.surplussales.com/ShaftHardware/ShaftH-8.html

Or try your local hardware store.

Pete, wa2cwa

On Tue, 04 Jul 2006 16:02:59 -0000 "soldonparadise"
<mikeddy@...> writes:
This is probably the dumbest question on the board. I finally got my
new rig. Being excited to hear it work, I hooked up a piece of coax,
attached about 50 feet of 24 ga solid bus wire that I had in my
shack to the center pin of the PL-259, threw it over my 5th floor
lanai, and.......NOTHING. Is it possible this very small gauge of
wire is not enough to bring the sweet sound of your voices from
around the world?

73 Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
<mikeddy@...> wrote:
>
> Thank you Bill. Unfortunately, they are now out of stock. I found
> that Ken (K4EAA) machines his own and has them readily available.
>
> 73 & Aloha
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Mike,
> >
> > The part number is D22-0409-05, still available from
> www.pacparts.com
> >
> > The old part number D22-0402-05 was discontinued; update your
> service
> > manual when you get one.
> >

> > 73
> >
> > Bill K0ZL
> >
> > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > My "new" TS-830S is on it's way, and as described it should be
in
> > > like new condition! Since parts are virtually non existent
where
> I
> > > live, I always like to keep some spares on hand. I have already
> > > ordered a new set of finals and a driver. I would like to get a
> > > replacement bandswitch coupling, but I searched the archives
and
> > > could not find the OEM part number or where it can be ordered.
> > > Secondly, are there other parts prone to failure that I should
> pick
> > > up now rather than waiting until the day they fail? And
finally,
> in
> > > an effort to keep this rig working for many more years, does
it
> make
> > > more sense to just purchase a second TS-830 and use it for
> spares?
> > >
> > > Much Aloha from Maui
> > >
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

8150. Re: TS-520SE differences

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 18:33:59 UTC
From: cybercat321
Topic: 4279 Message: 8150

As well as the differences mentioned, there were some that had the 12 VDC power option built in.
I recall seeing a comparison of these somewhere on the web when I was researching my preferred initial purchase of one of these radios.
I'll see if I can find it...
no promises, though
- Bill H. / va3hwa

What is the difference between a
520, 520S and a 520SE ?

8151. Re: TS-520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 18:52:19 UTC
From: cybercat321
Topic: 4279 Message: 8151

Take a look at:
http://www.k4eaa.com/types.html
for a start.
- Bill H. / va3hwa

--- In TS-520_820_530_830@yahoogroups.com, "wb7_ssn" <future212@...>
wrote:
>
> Hello,
>
> This really is a great group. There is more helpful traffic on this
> forum than any other that I bloong to, and I belong to quite a few
> others.
>
> My question, I have a TS-520SE rig. What is the difference between
a
> 520, 520S and a 520SE.
>
> Thank you in advance.
>
> 73's
> DW Holtman
> WB7SSN
>

8152. Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 21:32:07 UTC
From: soldonparadise
Topic: 8050 Message: 8152

Pete

RF gain on max, now using a very short piece of stranded copper, drive control set for maximum noise, no signals found on any band. I am trying to track down another ham on the island so I can try it on a real antenna. The physical appearance of this radio is absolutely perfect inside and out. I have a hard time believing it has any problem other than my antenna, but coming from eBay you can never be sure.

Thanks for the link for the shaft couplers.

Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> RF gain turned all the way up. Can you hear the calibrator? Is it oxygen
> free wire? Did you adjust drive control for maximum noise?
>
> On your previous question, Shaft Couplings:
> Go here, they have them:
> http://www.surplussales.com/ShaftHardware/ShaftH-8.html
>
> Or try your local hardware store.
>
> Pete, wa2cwa
>
>
> On Tue, 04 Jul 2006 16:02:59 -0000 "soldonparadise"
> <mikeddy@...> writes:
> This is probably the dumbest question on the board. I finally got my
> new rig. Being excited to hear it work, I hooked up a piece of coax,
> attached about 50 feet of 24 ga solid bus wire that I had in my
> shack to the center pin of the PL-259, threw it over my 5th floor
> lanai, and.......NOTHING. Is it possible this very small gauge of
> wire is not enough to bring the sweet sound of your voices from
> around the world?
>
> 73 Mike WA7YET
>
> --- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
> <mikeddy@> wrote:

> >
> > Thank you Bill. Unfortunately, they are now out of stock. I
found
> > that Ken (K4EAA) machines his own and has them readily available.
> >
> > 73 & Aloha
> >
> > Mike WA7YET
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> > <k0zl.ham@> wrote:
> > >
> > > Mike,
> > >
> > > The part number is D22-0409-05, still available from
> > www.pacparts.com
> > >
> > > The old part number D22-0402-05 was discontinued; update your
> > service
> > > manual when you get one.
> > >
> > > 73
> > >
> > > Bill K0ZL
> > >
> > > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > My "new" TS-830S is on it's way, and as described it should
be
> in
> > > > like new condition! Since parts are virtually non existent
> where
> > I
> > > > live, I always like to keep some spares on hand. I have
already
> > > > ordered a new set of finals and a driver. I would like to
get a
> > > > replacement bandswitch coupling, but I searched the archives
> and
> > > > could not find the OEM part number or where it can be
ordered.
> > > > Secondly, are there other parts prone to failure that I
should

> > pick
> > > > up now rather than waiting until the day they fail? And
> finally,
> > in
> > > > an effort to keep this rig working for many more years, does
> it
> > make
> > > > more sense to just purchase a second TS-830 and use it for
> > spares?
> > > >
> > > > Much Aloha from Maui
> > > >
> > > >
> > >
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

8153. Re: [TS-520_820_530_830] Re: 2 really stupid questions!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-04 23:24:59 UTC
From: agoodridge
Topic: 8128 Message: 8153

G'day Ron

I will take your advice and read those articles,

Thank you for the reply

73's
Anthony
----- Original Message -----
From: Ron Hauser
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 04, 2006 10:26 PM
Subject: RE: [TS-520_820_530_830] Re: 2 really stupid questions!

Anthony, in addition to Gordon's good advice, you should definitely read
Walt N9WB's comments on neutralization in the files section of this group.
Actually read three of Walt's articles: Danger High Voltage, Save Your
Power Transformer, and Neutralization.

I found those three to be very helpful in addition to the information in the
820 manual.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Monday, July 03, 2006 8:42 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 2 really stupid questions!

Anthony,
I would think perhaps some bad contacts in the switches might be
causing your Low receive. Try cleaning all the band switches with De Oxit.

Also, If you can't read your manual to neutralize the finals, go to
http://www.n6wk.com/kenwood and download the TS-820 service manual or
the ts-820 Users manual. They are legible and give you a step by
step. Neutralizing the Finals is Really VERY easy, but Be Careful !!
HIGH VOLTAGE in that Cage !!!!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:

>
> Hey guys,
>
> Sorry about this.
>
> I need to aks two questions,
>
> 1) I have a TS820 that is deaf, not totally, but no where as good as
> my 520,
>
> I have tuned everything up as per the service manual, but it is still
> deaf, any ideas what to look for next?
>
> I have thought maybe bad caps, but before I start replacing everything
> I thought I would ask around to see if anyone else had the same issues?
>
> 2) I have to neutralize the finals in the TS520, that just cooked the
> finals and driver, but, call me dumb, I can't work out the sequence
> from the service manual, my copy is quite bad and difficult to read,
> any tips/
>
> Thanks guys
>
> 73s
> Anthony
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.8/381 - Release Date: 3/07/2006

[Non-text portions of this message have been removed]

8154. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-05 09:45:41 UTC
From: n9wb
Topic: 8050 Message: 8154

Mike,
Be sure that you do not somehow have a short in the PL 259. Try skinning down the end of the wire and connecting it directly into the center of the antenna connector on the back. You should hear well on a 50' wire if signals are there.

On exactly 10.000 MHz USB or LSB you should hear WWV at some point at the day or night either from Colorado or from Hawaii. They transmit from both spots simultaneously.

I would think that you would hear signals at night on 40 meters from broadcast stations, just as it is getting dark there or just as it is getting light.

The idea of seeing if you could hear your crystal calibrator was a good idea except that I don't think that the TS-830 has one.

Vy 73, Walt N9WB

----- Original Message -----
From: soldonparadise
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 04, 2006 11:02 AM
Subject: [TS-520_820_530_830] Re: Aloha from Maui

This is probably the dumbest question on the board. I finally got my new rig. Being excited to hear it work, I hooked up a piece of coax, attached about 50 feet of 24 ga solid bus wire that I had in my shack to the center pin of the PL-259, threw it over my 5th floor lanai, and.....NOTHING. Is it possible this very small gauge of wire is not enough to bring the sweet sound of your voices from around the world?

73 Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise" <mikeddy@...> wrote:
>
> Thank you Bill. Unfortunately, they are now out of stock. I found
> that Ken (K4EAA) machines his own and has them readily available.
>
> 73 & Aloha
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Mike,

> >
> > The part number is D22-0409-05, still available from
> www.pacparts.com
> >
> > The old part number D22-0402-05 was discontinued; update your
> service
> > manual when you get one.
> >
> > 73
> >
> > Bill K0ZL
> >
> > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > My "new" TS-830S is on it's way, and as described it should be
in
> > > like new condition! Since parts are virtually non existent
where
> I
> > > live, I always like to keep some spares on hand. I have already
> > > ordered a new set of finals and a driver. I would like to get a
> > > replacement bandswitch coupling, but I searched the archives
and
> > > could not find the OEM part number or where it can be ordered.
> > > Secondly, are there other parts prone to failure that I should
> pick
> > > up now rather than waiting until the day they fail? And
finally,
> in
> > > an effort to keep this rig working for many more years, does
it
> make
> > > more sense to just purchase a second TS-830 and use it for
> spares?
> > >
> > > Much Aloha from Maui
> > >
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

8155. RE: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-05 12:39:47 UTC
From: Hauser, Ron M.
Topic: 8050 Message: 8155

There is a crystal calibrator on the 830, engaged by turning the mike gain all the way down until it clicks. So you should hear that... you should hear _something_ with a 50' piece of wire. You should hear static crashes on 80m after dark!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Wednesday, July 05, 2006 4:46 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Aloha from Maui

Mike,
Be sure that you do not somehow have a short in the PL 259. Try skinning down the end of the wire and connecting it directly into the center of the antenna connector on the back. You should hear well on a 50' wire if signals are there.

On exactly 10.000 MHz USB or LSB you should hear WWV at some point at the day or night either from Colorado or from Hawaii. They transmit from both spots simultaneously.

I would think that you would hear signals at night on 40 meters from broadcast stations, just as it is getting dark there or just as it is getting light.

The idea of seeing if you could hear your crystal calibrator was a good idea except that I don't think that the TS-830 has one.

Vy 73, Walt N9WB

----- Original Message -----
From: soldonparadise
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 04, 2006 11:02 AM
Subject: [TS-520_820_530_830] Re: Aloha from Maui

This is probably the dumbest question on the board. I finally got my new rig. Being excited to hear it work, I hooked up a piece of coax, attached about 50 feet of 24 ga solid bus wire that I had in my shack to the center pin of the PL-259, threw it over my 5th floor lanai, and.....NOTHING. Is it possible this very small gauge of wire is not enough to bring the sweet sound of your voices from

around the world?

73 Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
<mikeddy@...> wrote:
>
> Thank you Bill. Unfortunately, they are now out of stock. I found
> that Ken (K4EAA) machines his own and has them readily available.
>
> 73 & Aloha
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Mike,
> >
> > The part number is D22-0409-05, still available from
> www.pacparts.com
> >
> > The old part number D22-0402-05 was discontinued; update your
> service
> > manual when you get one.
> >
> > 73
> >
> > Bill K0ZL
> >
> > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > My "new" TS-830S is on it's way, and as described it should be
in
> > > like new condition! Since parts are virtually non existent
where
> I
> > > live, I always like to keep some spares on hand. I have already
> > > ordered a new set of finals and a driver. I would like to get a
> > > replacement bandswitch coupling, but I searched the archives
and
> > > could not find the OEM part number or where it can be ordered.
> > > Secondly, are there other parts prone to failure that I should
> pick

> > > up now rather than waiting until the day they fail? And
finally,
> in
> > > an effort to keep this rig working for many more years, does
it
> make
> > > more sense to just purchase a second TS-830 and use it for
> spares?
> > >
> > > Much Aloha from Maui
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

8156. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-05 20:29:30 UTC
From: n9wb
Topic: 8050 Message: 8156

Pete:
What is oxygen free wire and why would that make a difference ?
Just curious.
Walt N9WB

----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 04, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] Re: Aloha from Maui

RF gain turned all the way up. Can you hear the calibrator? Is it oxygen
free wire? Did you adjust drive control for maximum noise?

On your previous question, Shaft Couplings:
Go here, they have them:
http://www.surplussales.com/ShaftHardware/ShaftH-8.html

Or try your local hardware store.

Pete, wa2cwa

On Tue, 04 Jul 2006 16:02:59 -0000 "soldonparadise"
<mikeddy@...> writes:
This is probably the dumbest question on the board. I finally got my
new rig. Being excited to hear it work, I hooked up a piece of coax,
attached about 50 feet of 24 ga solid bus wire that I had in my
shack to the center pin of the PL-259, threw it over my 5th floor
lanai, and.......NOTHING. Is it possible this very small gauge of
wire is not enough to bring the sweet sound of your voices from
around the world?

73 Mike WA7YET

--- In TS-520_820_530_830@yahoogroups.com, "soldonparadise"
<mikeddy@...> wrote:
>
> Thank you Bill. Unfortunately, they are now out of stock. I found
> that Ken (K4EAA) machines his own and has them readily available.
>
> 73 & Aloha
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:

> >
> > Mike,
> >
> > The part number is D22-0409-05, still available from
> www.pacparts.com
> >
> > The old part number D22-0402-05 was discontinued; update your
> service
> > manual when you get one.
> >
> > 73
> >
> > Bill K0ZL
> >
> > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > My "new" TS-830S is on it's way, and as described it should be
in
> > > like new condition! Since parts are virtually non existent
where
> I
> > > live, I always like to keep some spares on hand. I have already
> > > ordered a new set of finals and a driver. I would like to get a
> > > replacement bandswitch coupling, but I searched the archives
and
> > > could not find the OEM part number or where it can be ordered.
> > > Secondly, are there other parts prone to failure that I should
> pick
> > > up now rather than waiting until the day they fail? And
finally,
> in
> > > an effort to keep this rig working for many more years, does
it
> make
> > > more sense to just purchase a second TS-830 and use it for
> spares?
> > >
> > > Much Aloha from Maui
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8157. Re: Is it just a dirty mode switch? Thought I'd cleaned it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-05 19:30:12 UTC
From: Roberto Baca Barnard
Topic: 8126 Message: 8157

Tnx Bill: working fine now. Made sure soldering good and no bridges.
Wiped off board. Connector was fine, properly moved, but made sure
connection was solid.

8158. Re: TS830s Paint....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-05 23:42:05 UTC
From: Gordon
Topic: 8140 Message: 8158

Hi Chris,
I just happened to find some "Original Color" Paint for the 820 and
830's on Ebay. It does NOT however, duplicate the original "Texture",
but the Color is an Exact match.
I have a couple of extra cans if you can not find any down there. It
was a bit pricey when I bought it though.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "cdp2408" <cdp2408@...> wrote:
>
> Hi Everyone,
>
> Recently purchased TS830s which I have re-aligned and is now working
> pretty well. What I do remember seeing some time back when I lived in
> the UK was some Kenwood colour TS830s spray paint. - I need to get the
> upper and lower lid re-painted as they are in a real mess.
>
> Can anyone point me in the right direction please?
>
> Regards,
>
> Chris Parnell
> ZL1CDP
>

8159. 6146 selection for 820-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 01:18:52 UTC
From: ab8rl
Topic: 8159 Message: 8159

What is the preferred final tubes for the 820 and 830???

Is the 6146B ok matched pair??? or 6146W??? RF parts does not recommend the GE 6146W for Kenwood transceivers - the ECG/PHILLIPS 6146W is pricy at $59/pair.

R&L carries the 6146B through Jetstream $39 for matched pair.

???

Tom AB8RL

8160. Re: [TS-520_820_530_830] 6146 selection for 820-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 02:06:21 UTC
From: Peter A Markavage
Topic: 8159 Message: 8160

The tubes are in parallel. What's the point of a "matched pair"? One misnomer is that they will age at the same rate which is highly unlikely. I've never bought a pair of "matched 6146's" for any of my rigs and I've been using 6146's in my finals since 1959 and have never a problem. If I need two 6146/A/B/W's, I just reach into my hamfest tube stash and pull two of the same code out. Most, if not all, were bought new, but have no idea of their history.

Pete, wa2cwa

On Thu, 06 Jul 2006 01:18:52 -0000 "ab8rl" <ab8rl@...> writes:
> What is the preferred final tubes for the 820 and 830???
>
> Is the 6146B ok matched pair??? or 6146W??? RF parts does not
> recommend the GE 6146W for Kenwood transceivers - the ECG/PHILLIPS
> 6146W is pricy at $59/pair.
>
> R&L carries the 6146B through Jetstream $39 for matched pair.
>
> ???
>
> Tom AB8RL

8161. VFO Calibration problem any source for the SEND switch paddles?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 03:08:46 UTC
From: Sergio Potes
Topic: 8161 Message: 8161

A friend has a TS-520SE and he is calibrated on 160 meters but on 80
he is about 20 kcs off.He needs to buy two switch paddles that broke
and would like to know the source for these paddles.
I have used several TS-520's and never had this problem.
I have a TS-520S and I love this radio. Have more modern radios but I
just get a kick using this old but great radio.
Regards! Sergio AE4TO

8162. RE: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 02:36:42 UTC
From: Walter Milton
Topic: 8050 Message: 8162

Walt,

My TS-830 has a crystal calibrator and it works just fine!!

Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Wednesday, July 05, 2006 5:46 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: Aloha from Maui

Mike,
Be sure that you do not somehow have a short in the PL 259. Try skinning down the end of the wire and connecting it directly into the center of the antenna connector on the back. You should hear well on a 50' wire if signals are there.

On exactly 10.000 MHz USB or LSB you should hear WWV at some point at the day or night either from Colorado or from Hawaii. They transmit from both spots simultaneously.

I would think that you would hear signals at night on 40 meters from broadcast stations, just as it is getting dark there or just as it is getting light.

The idea of seeing if you could hear your crystal calibrator was a good idea except that I don't think that the TS-830 has one.

Vy 73, Walt N9WB

----- Original Message -----
From: soldonparadise
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Tuesday, July 04, 2006 11:02 AM
Subject: [TS-520_820_530_830] Re: Aloha from Maui

This is probably the dumbest question on the board. I finally got my new rig. Being excited to hear it work, I hooked up a piece of coax, attached about 50 feet of 24 ga solid bus wire that I had in my shack to the center pin of the PL-259, threw it over my 5th floor lanai, and.....NOTHING. Is it possible this very small gauge of wire is not enough to bring the sweet sound of your voices from around the world?

73 Mike WA7YET

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "soldonparadise"
<mikeddy@...> wrote:
>
> Thank you Bill. Unfortunately, they are now out of stock. I found
> that Ken (K4EAA) machines his own and has them readily available.
>
> 73 & Aloha
>
> Mike WA7YET
>
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Mike,
> >
> > The part number is D22-0409-05, still available from
> www.pacparts.com
> >
> > The old part number D22-0402-05 was discontinued; update your
> service
> > manual when you get one.
> >
> > 73
> >
> > Bill K0ZL
> >
> > On 7/1/06, soldonparadise <mikeddy@> wrote:
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > My "new" TS-830S is on it's way, and as described it should be
in
> > > like new condition! Since parts are virtually non existent
where
> I
> > > live, I always like to keep some spares on hand. I have already
> > > ordered a new set of finals and a driver. I would like to get a
> > > replacement bandswitch coupling, but I searched the archives
and
> > > could not find the OEM part number or where it can be ordered.
> > > Secondly, are there other parts prone to failure that I should
> pick

> > > up now rather than waiting until the day they fail? And
finally,
> in
> > > an effort to keep this rig working for many more years, does
it
> make
> > > more sense to just purchase a second TS-830 and use it for
> spares?
> > >
> > > Much Aloha from Maui
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8163. Re: [TS-520_820_530_830] mail issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 07:00:36 UTC
From: Peter A Markavage
Topic: 8163 Message: 8163

Maybe Walt, N9WB or Bill, K0ZL, can answer this.

For the last several days when I post a message to the board, I don't get a copy of it and I don't always get other messages to this board. I checked membership on Yahoo Groups and individual e-mails to this e-mail address is checked off. I can see my messages got posted on the board by going up to Yahoo Groups. I also checked member status and it doesn't look like Yahoo is getting bounced e-mails back to them. Anybody got a clue what's going on?

Pete, wa2cwa

8164. Re: [TS-520_820_530_830] Re: TS830s Paint....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 08:39:00 UTC
From: Chris P
Topic: 8140 Message: 8164

Hey Gordon,

That sounds great buddy.... I know that I got some from ebay for an old 520SE that I restored in the UK but cannot find any here in (or around) New Zealand.
So if you can let me know what it will cost me to get your two cans here that would be fantastic. - I am not too worried about the texture as that would be nearly impossible to re-create.

I am located in Auckland.

Thanks Gordon,

Regards,

Chris Parnell
ZL1CDP

Gordon <n6wk@...> wrote:
Hi Chris,
I just happened to find some "Original Color" Paint for the 820 and
830's on Ebay. It does NOT however, duplicate the original "Texture",
but the Color is an Exact match.
I have a couple of extra cans if you can not find any down there. It
was a bit pricey when I bought it though.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "cdp2408" <cdp2408@...> wrote:
>
> Hi Everyone,
>
> Recently purchased TS830s which I have re-aligned and is now working
> pretty well. What I do remember seeing some time back when I lived in
> the UK was some Kenwood colour TS830s spray paint. - I need to get the
> upper and lower lid re-painted as they are in a real mess.
>
> Can anyone point me in the right direction please?
>
> Regards,
>
> Chris Parnell
> ZL1CDP
>

Try the all-new Yahoo! Mail . "The New Version is radically easier to use" ☐ The Wall Street Journal

[Non-text portions of this message have been removed]

8165. Re: [TS-520_820_530_830] Re: TS830s Paint....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 11:21:17 UTC
From: Charles Mortimer
Topic: 8140 Message: 8165

hallo Chris
to get the correct texture is simple (but cannot be done using cans) can paint is at the right consistency to flatten out when applied and this creates a smooth finish also the original paint has a certain amount of matting agent applied to kill the high gloss.....if you want to be a perfectionist take your top and bottom panels into the local auto/chop shop /spray shop tell them you require an orange peel finish and an exact colour match or if you are in UK halberds and get a computer match and give them strict instructions not to thin the paint too much once you have the paint in your hands then you can go to the local spray shop oooooo or use your own compressor and spray gun
how to get orange peel paint affect/////// the paint has to be sprayed on the surface a lot thicker the paint comes out of the gun in minute thicker droplets as the droplets hit the surface they stay in a droplet form and start to skin over immediately this causes high & lows in the painted surface and the affect is orange peel highly frowned on in the motor trade the thicker the paint the heavier the orange peel
before using the top coat remove all paint down to bare metal
not a good idea to use sand blasting this will only distort the panel used by the non professional its possible to get a permanent twist in your panels millions of tiny particles bombarding one small area tends to stretch the metal hence a twist appears have it done professionally and give them strict instructions not to cause a twist in the panels
once you have that done a good etch primer what this does bites its way on to the metal this etch primer is the medium that your top coat will bite its way on to the reason for this is if no etch primer is used and you spray your top coat straight on to the metal ((you might create a perfect finish)) but some where down the track chips will start to fall of with the slightest knock
plus if you have this done professionally they have drying ovens and this tends to make a harder and more durable painted surface
well after all that I still use spray cans with the paint as close as match to the original paint I have it made up for me with matting agent in pressure pack form
Charles & rusty g1fak vk6ycj
----- Original Message -----
From: "Chris P" <cdp2408@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, July 06, 2006 4:39 PM
Subject: Re: [TS-520_820_530_830] Re: TS830s Paint....

Hey Gordon,

That sounds great buddy.... I know that I got some from ebay for an old 520SE that I restored in the UK but cannot find any here in (or around) New

Zealand.
So if you can let me know what it will cost me to get your two cans here that would be fantastic. - I am not too worried about the texture as that would be nearly impossible to re-create.

I am located in Auckland.

Thanks Gordon,

Regards,

Chris Parnell
ZL1CDP

Gordon <n6wk@...> wrote:
Hi Chris,
I just happened to find some "Original Color" Paint for the 820 and 830's on Ebay. It does NOT however, duplicate the original "Texture", but the Color is an Exact match.
I have a couple of extra cans if you can not find any down there. It was a bit pricey when I bought it though.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "cdp2408" <cdp2408@...> wrote:
>
> Hi Everyone,
>
> Recently purchased TS830s which I have re-aligned and is now working
> pretty well. What I do remember seeing some time back when I lived in
> the UK was some Kenwood colour TS830s spray paint. - I need to get the
> upper and lower lid re-painted as they are in a real mess.
>
> Can anyone point me in the right direction please?
>
> Regards,
>
> Chris Parnell
> ZL1CDP
>

Try the all-new Yahoo! Mail . "The New Version is radically easier to use" - The Wall Street Journal

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8166. Re: [TS-520_820_530_830] mail issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 13:23:58 UTC
From: Bill Leahy
Topic: 8163 Message: 8166

Hi Pete,

I checked your settings; you are not being moderated. I checked group settings; only new members are set to be moderated the first few posts. Then we change them to unmoderated.

Yahoo servers are overloaded and the code they run is so bloated that it takes 3 seconds for each screen to load; that's bad when you have 13 groups and 15 new members to approve, 12 message to approve; etc etc... oh well

Not sure what's wrong but they have had problems like this before.

bill

On 7/6/06, Peter A Markavage <pmarkavage@...> wrote:
>
> Maybe Walt, N9WB or Bill, K0ZL, can answer this.
>
> For the last several days when I post a message to the board, I don't get
> a copy of it and I don't always get other messages to this board. I
> checked membership on Yahoo Groups and individual e-mails to this e-mail
> address is checked off. I can see my messages got posted on the board by
> going up to Yahoo Groups. I also checked member status and it doesn't
> look like Yahoo is getting bounced e-mails back to them. Anybody got a
> clue what's going on?
>
> Pete, wa2cwa
>
>

[Non-text portions of this message have been removed]

8167. Re: [TS-520_820_530_830] Re: Aloha from Maui

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-06 17:10:51 UTC
From: Peter A Markavage
Topic: 8050 Message: 8167

Don't know, but the audio people swear by it. These , of course, are the people that spend $150 on an AC power cord and $100 for a 12AU7 tube.
To read more on oxygen-free wire, go here:
http://www.aqdi.com/goldcon.htm

And for even greater insight into "Audiophool's", go to this AM Forum thread:
http://amfone.net/Amforum/index.php?topic=7038.0

It's amazing what people spend their money on and what they perceive is "better". It's all in the marketing.

Pete, wa2cwa

On Wed, 5 Jul 2006 15:29:30 -0500 "n9wb" <n9wb@...> writes:
>
> Pete:
> What is oxygen free wire and why would that make a difference ?
> Just curious.
> Walt N9WB
>
> ----- Original Message -----
> From: Peter A Markavage
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, July 04, 2006 12:27 PM
> Subject: Re: [TS-520_820_530_830] Re: Aloha from Maui
>
>
> RF gain turned all the way up. Can you hear the calibrator? Is it
> oxygen
> free wire? Did you adjust drive control for maximum noise?
>
> On your previous question, Shaft Couplings:
> Go here, they have them:
> http://www.surplussales.com/ShaftHardware/ShaftH-8.html
>
> Or try your local hardware store.
>
> Pete, wa2cwa

[Non-text portions of this message have been removed]

8168. Re: TS830s Paint....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 01:22:32 UTC
From: Gordon
Topic: 8140 Message: 8168

Check your Email Chris !

Gordon

--- In TS-520_820_530_830@...m, Chris P <cdp2408@...> wrote:
>
> Hey Gordon,
>
> That sounds great buddy.... I know that I got some from ebay for an old 520SE that I restored in the UK but cannot find any here in (or around) New Zealand.
> So if you can let me know what it will cost me to get your two cans here that would be fantastic. - I am not too worried about the texture as that would be nearly impossible to re-create.
>
> I am located in Auckland.
>
> Thanks Gordon,
>
> Regards,
>
> Chris Parnell
> ZL1CDP
>
> Gordon <n6wk@...> wrote:
> Hi Chris,
> I just happened to find some "Original Color" Paint for the 820 and
> 830's on Ebay. It does NOT however, duplicate the original "Texture",
> but the Color is an Exact match.
> I have a couple of extra cans if you can not find any down there. It
> was a bit pricey when I bought it though.
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "cdp2408" <cdp2408@> wrote:
> >
> > Hi Everyone,
> >
> > Recently purchased TS830s which I have re-aligned and is now working
> > pretty well. What I do remember seeing some time back when I lived in
> > the UK was some Kenwood colour TS830s spray paint. - I need to get
the

> > upper and lower lid re-painted as they are in a real mess.
> >
> > Can anyone point me in the right direction please?
> >
> > Regards,
> >
> > Chris Parnell
> > ZL1CDP
> >
>
>
>
>
>
>
> ---
> Try the all-new Yahoo! Mail . "The New Version is radically easier
to use" ☐ The Wall Street Journal
>
> [Non-text portions of this message have been removed]
>

8169. TS-830 For Parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 01:21:36 UTC
From: Gordon
Topic: 8169 Message: 8169

Does anyone have an old TS-830 that they are parting Out ??
I am interested in either buying the whole rig, or just some Boards....

I received my TS-830 yesterday. I gave it a quick look over. It is in VERY nice shape cosmetically. However, I receive NO RF and the rig does NOIT transmit. Not even any Idle Bias on the Finals.
The AF part works as I hear lots of "White Noise" (Scary Movie by the Way) and I can adjust the Volume up and down. When I click the Calibrator On,... Nothing ! No beat at all. I have noticed that the First RF amp has been changed on the RF board. I went to the Electronic store today to buy a New 3SK73(GR) but they did not show a Cross for it.
So, My question now is, Does anyone Know what the Correct cross is for this MOSFET, or is there Not one ? I checked the Voltage on Q1 and found the Drain is 12.15 volts (supposed to be 12.4) the Source is 7.5 (supposed to be (1.0) G1 is 1.1 (supposed to be 1.1) and G2 is 2.7 (supposed to be 2.7). So, The Source is High, But I'm not sure which direction to look for WHY !
Any help guys ??

Gordon
N6WK

Gordon
N6WK

8170. Re: 6146 selection for 820-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 02:29:24 UTC
From: Ellen R
Topic: 8159 Message: 8170

Hi Pete,

You don't need to use a matched set. It's just that a matched set is easier to neutralize. In some cases, if the tubes are too mismatched, they will not neutralize out properly, because the neutralizing capacitor will not have enough range to do so.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> The tubes are in parallel. What's the point of a "matched pair"? One
> misnomer is that they will age at the same rate which is highly unlikely.
> I've never bought a pair of "matched 6146's" for any of my rigs and I've
> been using 6146's in my finals since 1959 and have never a problem. If I
> need two 6146/A/B/W's, I just reach into my hamfest tube stash and pull
> two of the same code out. Most, if not all, were bought new, but have no
> idea of their history.
>
> Pete, wa2cwa
>
> On Thu, 06 Jul 2006 01:18:52 -0000 "ab8rl" <ab8rl@...> writes:
> > What is the preferred final tubes for the 820 and 830???
> >
> > Is the 6146B ok matched pair??? or 6146W??? RF parts does not
> > recommend the GE 6146W for Kenwood transceivers - the ECG/PHILLIPS
> > 6146W is pricy at $59/pair.
> >
> > R&L carries the 6146B through Jetstream $39 for matched pair.
> >
> > ???
> >
> > Tom AB8RL
>

8171. TS820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 02:43:31 UTC
From: w5dja
Topic: 1705 Message: 8171

Just finished xmit section and recv section on my 820
s, but have the DG-1 problem to tackle left.
the display is ok except for the mhz digit, it displays 9.xxx,19.xxx
or 29.xxx. SM say to check input signals to counter bd, well my VTVM
is dead in the water, but looks ok on scope.(old scope). The digits
below the mhz follows the vfo perfectly and dead-on(checked with
external Cal'd freq counter.ex: 19.180 in 14mhz position would be
14.180mhz on dial and reads 14.180 on ext counter. Iam not the best at
this IC troubleshooting, but I thought I would throw this out to the
group and hopefully someone ran across this in the past.
By the way put in a pair of 6146w's matched(ecg/philips) about 10watts
less on power mtr. 110watts out on all bands. Iam happy.
Don/w5dja

8173. Re: TS820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 04:12:21 UTC
From: Gordon
Topic: 1705 Message: 8173

Don,
I have run into this problem. Removing the DG-1 unit, taking off the covers, separating the boards and cleaning ALL the contacts with De Oxit completely Solved the Problem. I also recommend spraying the Rear Wiper/Spring on the VFO while you are at it. These units are also noted for bad/cracked solder joints inside the Unit. I have yet to find one with BAD solder joints but Dirty Contacts, I have found Many Times.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "w5dja" <darx666@...> wrote:
>
> Just finished xmit section and recv section on my 820
> s, but have the DG-1 problem to tackle left.
> the display is ok except for the mhz digit, it displays 9.xxx,19.xxx
> or 29.xxx. SM say to check input signals to counter bd, well my VTVM
> is dead in the water, but looks ok on scope.(old scope). The digits
> below the mhz follows the vfo perfectly and dead-on(checked with
> external Cal'd freq counter.ex: 19.180 in 14mhz position would be
> 14.180mhz on dial and reads 14.180 on ext counter. Iam not the best at
> this IC troubleshooting, but I thought I would throw this out to the
> group and hopefully someone ran across this in the past.
> By the way put in a pair of 6146w's matched(ecg/philips) about 10watts
> less on power mtr. 110watts out on all bands. Iam happy.
> Don/w5dja
>

8174. Re: [TS-520_820_530_830] mail issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 15:44:36 UTC
From: KD5SFA
Topic: 8163 Message: 8174

It's probably a juno issue.
I know gmail blocks messages that you send to the
group and then get sent back to you, they think you
wouldn't send yourself an email. Maybe Juno does
the same. Beyond that if they are getting posted to the
group and you aren't getting any and you are not bouncing
then Juno must be blocking them. Check with them...

73,
Jon
KD5SFA

-----Original Message-----
>From: Peter A Markavage <pmarkavage@...>
>Sent: Jul 6, 2006 2:00 AM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] mail issue
>
>Maybe Walt, N9WB or Bill, K0ZL, can answer this.
>
>For the last several days when I post a message to the board, I don't get
>a copy of it and I don't always get other messages to this board. I
>checked membership on Yahoo Groups and individual e-mails to this e-mail
>address is checked off. I can see my messages got posted on the board by
>going up to Yahoo Groups. I also checked member status and it doesn't
>look like Yahoo is getting bounced e-mails back to them. Anybody got a
>clue what's going on?
>
>Pete, wa2cwa
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>

8175. Re: mail issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 16:52:51 UTC
From: norman_y
Topic: 8163 Message: 8175

Pete,

You might want to check with your ISP as well. I moderate several Yahoo! groups myself, and I have had similar complaints. Many are as a result of ISP spam filters. In one instance, I was not getting some posts, or getting them delayed by a couple of days. I contacted Yahoo! and they said that the messages were not being delayed there, and I was able to verify that through the header info. I then contacted my ISP (Bellsouth), and they verified that their filtering was delaying or even deleting some posts. Their engineers adjusted their SPAM filters, and all was well.

Apparently, the problem is that so many spammers spoof Yahoo! addresses that many filters either treat Yahoo! domains as highly suspect or block them altogether. This is a real problem with my Wildlife Attorney reflector because all the members there are government attorneys, and every time there is a spamming software upgrade, somebody starts having problems.

FWIW, just like this one, all the lists I manage require moderator approval specifically so spammers can't get through. The price of "progress" I suppose.

Good luck,
Norman

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...>
wrote:
>
> Hi Pete,
>
> I checked your settings; you are not being moderated. I checked group
> settings; only new members are set to be moderated the first few
posts. Then
> we change them to unmoderated.
>
> Yahoo servers are overloaded and the code they run is so bloated that it
> takes 3 seconds for each screen to load; that's bad when you have 13
groups
> and 15 new members to approve, 12 message to approve; etc etc... oh well
>
> Not sure what's wrong but they have had problems like this before.
>
> bill
>
>

> On 7/6/06, Peter A Markavage <pmarkavage@...> wrote:
> >
> > Maybe Walt, N9WB or Bill, K0ZL, can answer this.
> >
> > For the last several days when I post a message to the board, I
don't get
> > a copy of it and I don't always get other messages to this board. I
> > checked membership on Yahoo Groups and individual e-mails to this
e-mail
> > address is checked off. I can see my messages got posted on the
board by
> > going up to Yahoo Groups. I also checked member status and it doesn't
> > look like Yahoo is getting bounced e-mails back to them. Anybody got a
> > clue what's going on?
> >
> > Pete, wa2cwa
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8176. Re: [TS-520_820_530_830] Re: 6146 selection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 17:22:01 UTC
From: Peter A Markavage
Topic: 8176 Message: 8176

Often wondered, when you receive an ordered set of "matched tubes" from a vendor, does it include a written certification that the tubes are matched and what parameters were matched (i.e. transconductance, Mu-Factor, interelectrode capacitances, etc.) or do you just receive an invoice that says "matched tubes" at $XX?

Pete, wa2cwa

8177. Matched Tubes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 18:46:10 UTC
From: N3DOK
Topic: 8177 Message: 8177

Hi, The information listed below is from Web Sites found under. Google search for: How do you match tubes. Some of the information list is from audio and instrument amps .

Bob N3DOK

http://www.google.com/search?hl=en&q=+How+do+you+match+tubes&btnG=Google+Search

Matched tubes: A pair, quad or sextet of power tubes that draws an equal amount of current, measured in milliamps (mA). *Note: tubes are also matched for transconductance, but this article focuses on current draw.

Tubes are matched to maximize an amp's power, tone and reliability. When tubes are not matched, bad tone, low output and/or short tube life can result. For example, say you have a pair of 6L6's in a Super Reverb (normal current draw between 25mA & 35mA per tube); one tube is drawing 40mA and the other 12mA. This mismatch can cause weak output, crossover distortion (a non-musical distortion) and a loud hum. Additionally, the tube drawing 40mA will wear out more quickly than the one at 12mA. This type of mismatch is extreme, but possible.

Tube Matching: We match tubes using a Hickok 539C tester. Power output tubes are matched for plate current and transconductance (within 5% for both parameters). Small signal tubes are matched for transconductance (within 5%).

3. Why do you match power tubes?
Many amplifiers are designed to require power tubes that have similar cathode current. Even tubes of the same type made at the same time will have variations in their cathode current, and this is why testing and matching is required. Please note that not every amp actually requires it - but it never hurts to have matched tubes. See this answer for more info about whether you need matched power tubes.

4. How are power tubes matched?
Power tubes are paired up based on their current draw, or "plate current". Measuring plate current draw under operating conditions is generally considered to be the most accurate method for rating a power tube, and it is the method we use.

5. How accurate is your matching?
We match tubes to be within 5% of measured plate current (that is, the tubes won't differ from each other by more than 5%, or 1 milliamp in 20). Despite what many people may say, this is about as accurate as power tubes can be matched. Tubes will always test differently from day to day because of fluctuations in the power supply and "drift" in the tube over time as it ages. When you consider that most electrical components in a modern amplifier are built with a tolerance of 10%, this is more than accurate enough. By contrast, common practice in the tube industry for the last fifty years has been to match power tubes to within 25%.

6. What does the Perfect Pair number mean on my matched power tubes from thetubestore.com?
The Perfect Pair number is the actual "plate current" (see question 4) that we measured,

using our digital matcher with a regulated power supply. You can use this number when ordering so that you won't have to re-bias your amp (more about bias later).

7. Which of your power tubes have the Perfect Pair matching number?
We provide Perfect Pair matching on the most common audio power tubes: EL34 types, 6L6 types, 6V6 types, 6550 types, KT88 types, and EL84 types.

What is Bias?

Now you want to install the new "matched" tubes you've purchased. Not so fast! In amps that have a fixed bias (e.g., most black and silver face Fenders, Marshall 50 watts or higher, Mesa/ Boogies, etc.), make sure to adjust the bias accordingly. If the bias is not adjusted properly, a few things can happen:

a.. It works fine: You were lucky enough to purchase tubes close to the existing ones (possible but very unlikely).

b.. Crossover distortion, bad tone and low output: The tubes are over biased, low current draw, and run very "cold".

c.. Short tube life: The tubes are under biased, draw too much current, run very hot (indicated by tube plates that glow bright red). This can damage the tubes and ultimately the amp itself.
Tubes can be biased within a certain range. Within this range the response of an amp can be adjusted. For example, say you have a pair of 6L6's in a Super Reverb, the safe bias range would be between 25mA and 35mA. At the high end, 35mA, the amp will distort more quickly and respond better than at 25mA, the low end, which will create a cleaner, more sterile tone.

If you're interested in learning how to bias tube amps, there are several good books available (e.g., Tube Talk for Guitarist and Tech, Inside Tube Amps). Of course, a professional repair shop can also ensure the bias is adjusted appropriately.

[Non-text portions of this message have been removed]

8178. Where Do Tubes Come From?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 18:54:53 UTC
From: N3DOK
Topic: 8178 Message: 8178

Hi, Back in the 1960s I meet a sales rep for RCA. The tub and parts division. I explained to me that tube companies made tubes for each other. An example would be RCA made 12AX7 this week. The same week another tube manufacture made a run of 12AU6. Button line, they made and sold tubes for each other.

Here is a few words about where do tubes from?

Bob N3DOK

Where Do Tubes Come From?

One of the biggest misconceptions people have about tubes is where they're manufactured. Currently there are no tubes made in the U.S.; production stopped sometime in the 1980's. China, Russia and Yugoslavia are the only countries where tubes are manufactured today.

The marketing of some American companies however leads you to believe that they not only match (see below) and package the tubes, but also manufacture them. Groove Tubes, one of the biggest offenders, purchases tubes in bulk from companies such as Svetlana, Sovtek (Russian companies), sells them under the GT label and then claims their sound is better than others and they charge twice as much. While GT does test and match the tubes, there are other American companies such as Ruby who don't claim to manufacture their tubes and charge more reasonable prices. All right, enough of the self-righteous stuff, let's talk about tubes.

[Non-text portions of this message have been removed]

8179. Re: [TS-520_820_530_830] Matched Tubes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 21:27:51 UTC
From: Stephen Goldberg
Topic: 8177 Message: 8179

I'm far from a vacuum tube expert but, reading your explanation it sounds like they are talking about tubes running push-pull. The finals in the Kenwoods are in parallel. I don't think that these problems (particularly distortion problems) really apply. Been using unmatched finals in my 530s and FT-901D for years with no difficulty.

Steve W4IMF

----- Original Message -----
From: N3DOK
To: YAHOOGROUP TS-830S
Sent: Friday, July 07, 2006 2:46 PM
Subject: [TS-520_820_530_830] Matched Tubes.

Hi, The information listed below is from Web Sites found under. Google search for: How do you match tubes. Some of the information list is from audio and instrument amps .

Bob N3DOK

http://www.google.com/search?hl=en&q=+How+do+you+match+tubes&btnG=Google+Search

Matched tubes: A pair, quad or sextet of power tubes that draws an equal amount of current, measured in milliamps (mA). *Note: tubes are also matched for transconductance, but this article focuses on current draw.

Tubes are matched to maximize an amp's power, tone and reliability. When tubes are not matched, bad tone, low output and/or short tube life can result. For example, say you have a pair of 6L6's in a Super Reverb (normal current draw between 25mA & 35mA per tube); one tube is drawing 40mA and the other 12mA. This mismatch can cause weak output, crossover distortion (a non-musical distortion) and a loud hum. Additionally, the tube drawing 40mA will wear out more quickly than the one at 12mA. This type of mismatch is extreme, but possible.

Tube Matching: We match tubes using a Hickok 539C tester. Power output tubes are matched for plate current and transconductance (within 5% for both parameters). Small signal tubes are matched for transconductance (within 5%).

3. Why do you match power tubes?
Many amplifiers are designed to require power tubes that have similar cathode current. Even tubes of the same type made at the same time will have variations in their cathode current, and this is why testing and matching is required. Please note that not every amp actually requires it - but it never hurts to have matched tubes. See this answer for more info about whether you need matched power tubes.

4. How are power tubes matched?
Power tubes are paired up based on their current draw, or "plate current". Measuring plate current draw under operating conditions is generally considered to be the most accurate method for rating a power tube, and it is the method we use.

5. How accurate is your matching?
We match tubes to be within 5% of measured plate current (that is, the tubes won't differ from each other by more than 5%, or 1 milliamp in 20). Despite what many people may say, this is about as accurate as power tubes can be matched. Tubes will always test differently from day to day because of fluctuations in the power supply and "drift" in the tube over time as it ages. When you consider that most electrical components in a modern amplifier are built with a tolerance of 10%, this is more than accurate enough. By contrast, common practice in the tube industry for the last fifty years has been to match power tubes to within 25%.

6. What does the Perfect Pair number mean on my matched power tubes from thetubestore.com?
The Perfect Pair number is the actual "plate current" (see question 4) that we measured, using our digital matcher with a regulated power supply. You can use this number when ordering so that you won't have to re-bias your amp (more about bias later).

7. Which of your power tubes have the Perfect Pair matching number?
We provide Perfect Pair matching on the most common audio power tubes: EL34 types, 6L6 types, 6V6 types, 6550 types, KT88 types, and EL84 types.

What is Bias?

Now you want to install the new "matched" tubes you've purchased. Not so fast! In amps that have a fixed bias (e.g., most black and silver face Fenders, Marshall 50 watts or higher, Mesa/ Boogies, etc.), make sure to adjust the bias accordingly. If the bias is not adjusted properly, a few things can happen:

a.. It works fine: You were lucky enough to purchase tubes close to the existing ones (possible but very unlikely).

b.. Crossover distortion, bad tone and low output: The tubes are over biased, low current draw, and run very "cold".

c.. Short tube life: The tubes are under biased, draw too much current, run very hot (indicated by tube plates that glow bright red). This can damage the tubes and ultimately the amp itself.
Tubes can be biased within a certain range. Within this range the response of an amp can be adjusted. For example, say you have a pair of 6L6's in a Super Reverb, the safe bias range would be between 25mA and 35mA. At the high end, 35mA, the amp will distort more quickly and respond better than at 25mA, the low end, which will create a cleaner, more sterile tone.

If you're interested in learning how to bias tube amps, there are several good books available (e.g., Tube Talk for Guitarist and Tech, Inside Tube

Amps). Of course, a professional repair shop can also ensure the bias is adjusted appropriately.

[Non-text portions of this message have been removed]

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.10/383 - Release Date: 7/7/06

8180. Re: 6146 selection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-07 23:59:20 UTC
From: Ellen R
Topic: 8176 Message: 8180

Maybe the military gets a general cert paper (just basically stating they're matched), but I've never received any papers listing their electrical properties, nor for matched sets I bought for my Fender and Marshall guitar amps I used to play through. Besides, it would add to the cost of the tubes.

73,
Ellen - AF9J
QA Engineer (yes, do QA engineering work - really :))

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Often wondered, when you receive an ordered set of "matched tubes" from a
> vendor, does it include a written certification that the tubes are
> matched and what parameters were matched (i.e. transconductance,
> Mu-Factor, interelectrode capacitances, etc.) or do you just receive an
> invoice that says "matched tubes" at $XX?
>
> Pete, wa2cwa
>

8181. Re: [TS-520_820_530_830] Matched Tubes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-08 01:27:32 UTC
From: Peter A Markavage
Topic: 8177 Message: 8181

Actually I know how to match tubes, but that wasn't the question. As it relates to 6146's, and not audio tubes, or audiophool type web sites who seem to be in a world of their own (see my other post on oxygen free wire, $200 AC cords, etc.), when you buy a "matched" set of 6146's, do you really know how the vendor matches them other than picking two from the same manufactured lot. Obviously, you pay more for a "matched" set. Are you really getting what you paid for? And, as was already posted, audio amplifiers output tubes are generally run in push-pull and not parallel, so the push-pull ideas don't work here.

Ellen - AF9J said in a previous post -"It's just that a matched set is easier to neutralize. In some cases, if the tubes are too mismatched, they will not neutralize out properly, because the neutralizing capacitor will not have enough range to do so."

Tubes manufactured by a specific manufacturer generally conform to a strict set of manufacturer and electrical parameters. Transconductance and Mu-Factor ratings for any manufactured lot doesn't vary by more 2 to 3%. Interelectrode capacitances, between the various elements, is even more a constant with variation of value generally less than 1%. 6146's you buy today, or those you bought 20 years ago, where not matched by the manufacturer and then sold to the vendor as a "matched" set. The supposed "matching" is done at the vendor. As was indicated in the text below, this audio tube seller does his audio tube matching on a 55 year old tube tester.

In the case of 6146's which are run in parallel, and assuming the tubes you buy are new to start with, and buying like codes from the same manufacturer (pair of 6146B's, pair of 6146W's, or a pair or industrial type 6146's) should not require the extra expense of matching nor should there be an issue of neutralization. However, tubes under long stress of use and age can sometimes bring on internal element sag or distortion causing its interelectrode capacitances to change. If you use of these, along with a new tube with the same code, the issue of neutralization can become a problem, since now, the tubes are no longer identical in their electrical and physical characteristics. So, if one tube develops a problem, it's best, if you're a purest, to change both of them. Also, as both tubes age, gain drops off along with the element sag and distortion, which could also hinder continued proper neutralization. Likewise some would also say, it's best not to mix manufacturers, even if the tubes have the same code, since manufacturing processes and internal tube structures might be different even if their tube specifications are identical. I have never seen this to be the case with the 6146 family.

Now with the sweep-tube family of tubes, that's a different story. TS-511 and TS-900 used those.

Pete, wa2cwa

On Fri, 7 Jul 2006 14:46:10 -0400 "N3DOK" <n3dok@...> writes:
> Hi, The information listed below is from Web Sites found under.
> Google search for: How do you match tubes. Some of the information
> list is from audio and instrument amps .
> Bob N3DOK
>
http://www.google.com/search?hl=en&q=+How+do+you+match+tubes&btnG=Google+
Search
> Matched tubes: A pair, quad or sextet of power tubes that draws an
> equal amount of current, measured in milliamps (mA). *Note: tubes
> are also matched for transconductance, but this article focuses on
> current draw.
>
> Tubes are matched to maximize an amp's power, tone and reliability.
> When tubes are not matched, bad tone, low output and/or short tube
> life can result. For example, say you have a pair of 6L6's in a
> Super Reverb (normal current draw between 25mA & 35mA per tube); one
> tube is drawing 40mA and the other 12mA. This mismatch can cause
> weak output, crossover distortion (a non-musical distortion) and a
> loud hum. Additionally, the tube drawing 40mA will wear out more
> quickly than the one at 12mA. This type of mismatch is extreme, but
> possible.
>
> Tube Matching: We match tubes using a Hickok 539C tester. Power
> output tubes are matched for plate current and transconductance
> (within 5% for both parameters). Small signal tubes are matched for
> transconductance (within 5%).
>
> 3. Why do you match power tubes?
> Many amplifiers are designed to require power tubes that have
> similar cathode current. Even tubes of the same type made at the
> same time will have variations in their cathode current, and this is
> why testing and matching is required. Please note that not every amp
> actually requires it - but it never hurts to have matched tubes. See
> this answer for more info about whether you need matched power
> tubes.
>
> 4. How are power tubes matched?
> Power tubes are paired up based on their current draw, or "plate
> current". Measuring plate current draw under operating conditions is
> generally considered to be the most accurate method for rating a
> power tube, and it is the method we use.
>
> 5. How accurate is your matching?
> We match tubes to be within 5% of measured plate current (that is,
> the tubes won't differ from each other by more than 5%, or 1
> milliamp in 20). Despite what many people may say, this is about as
> accurate as power tubes can be matched. Tubes will always test
> differently from day to day because of fluctuations in the power

> supply and "drift" in the tube over time as it ages. When you
> consider that most electrical components in a modern amplifier are
> built with a tolerance of 10%, this is more than accurate enough. By
> contrast, common practice in the tube industry for the last fifty
> years has been to match power tubes to within 25%.
>
> 6. What does the Perfect Pair number mean on my matched power tubes
> from thetubestore.com?
> The Perfect Pair number is the actual "plate current" (see question
> 4) that we measured, using our digital matcher with a regulated
> power supply. You can use this number when ordering so that you
> won't have to re-bias your amp (more about bias later).
>
> 7. Which of your power tubes have the Perfect Pair matching number?
> We provide Perfect Pair matching on the most common audio power
> tubes: EL34 types, 6L6 types, 6V6 types, 6550 types, KT88 types, and
> EL84 types.

8182. Re: VFO Calibration problem any source for the SEND switch paddles?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-08 02:24:44 UTC
From: james27613
Topic: 8161 Message: 8182

hi Sergio,

here is the part number for the paddle (knob) only,
not the switch

K29-0370-00
kenwoodparts.com
pacparts.com
Knob Black (fits paddle switch)

here is the part number for the
send/rec switch
S44-2016-05

I have added this info the the database section
under replacement parts

73 james ke4drn

8183. Re: [TS-520_820_530_830] Re: 6146 selection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-08 02:55:45 UTC
From: Charles Mortimer
Topic: 8176 Message: 8183

you receive a set of tubes if you are lucky you might get an invoice //that says they are matched and if you ask you will pay for the privilege
with no certificate assume they are not a matched set if they are a matched set from factory there will be a serial number and a signature of the person who tested them there again you will pay heavily for the privilege buy a set from over the counter asking for a matched set in the old days the retailer would turn around and pick 2 of the shelf of a couple of dozen packets and place them on the counter and he would give you some lame excuse that batch were matched
no certificate with all the parameters they are definitely not matched (((aircraft industry every nut and bolt is certificate and logged in a computer)))
and signed out by the engineer
Charles
----- Original Message -----
From: "Peter A Markavage" <pmarkavage@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, July 08, 2006 1:22 AM
Subject: Re: [TS-520_820_530_830] Re: 6146 selection

> Often wondered, when you receive an ordered set of "matched tubes" from a
> vendor, does it include a written certification that the tubes are
> matched and what parameters were matched (i.e. transconductance,
> Mu-Factor, interelectrode capacitances, etc.) or do you just receive an
> invoice that says "matched tubes" at $XX?
>
> Pete, wa2cwa
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

8184. Re: [TS-520_820_530_830] Re: 6146 selection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-08 11:53:19 UTC
From: n9wb
Topic: 8176 Message: 8184

The matched pair that RF parts offers is one of the last production runs by GE. These are labeled Phillips 6146W. They have heavier construction than some of the other brands. These are actually 6146 B's. If I were replacing tubes in my rig I would pay the extra $20.00 and order these. But my TS-820 still has the original S-2001s and gets 110 to 120 watts CW on 40 meters and over 95 on 28.700.

The tubes in these rigs are not operated in push-pull so crossover distortion is not an issue. However, if they are badly mismatched, one tube will do most of the work and the bias on one of the tubes will not create a very linear condition.

However, the above being said, if I had two 6146 tubes that were good, I would try then and if I was getting 90 watts or better on 28.5 and 100 watts or better on 7.250, I probably would use them.

Conclusion:

Matched tubes are not as important in parallel circuits as they are in push-pull circuits. But the closer that they are matched, the better quality signal you will have along with tube life. But the difference may not be that much.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

8185. TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-09 14:10:34 UTC
From: Bill Scurlock
Topic: 20 Message: 8185

Good Morning. I have decided to sell my TS-530S. If you are interested, and live in the lower 48 states, please contact me direct at k5gcw@... for photos and information. Please do not respond on this reflector. Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

8186. Question about the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-09 17:50:51 UTC
From: N3DOK
Topic: 8186 Message: 8186

Hi,
I have a TS-830S. Upon opening up the radio, I have a few questions. This group has been very helpful to me in learning more about the TS series of Kenwood radios. Thanks to all for your input.

In the RF final section there is a Final Choke # L33-0635-05. Reference number L32. At the bottom connection of the choke is light blue capacitor. The other end of the capacitor goes to ground. The top of it is cracked. A number KC103P is printed on it. I have looked over the TS-830S parts list and diagram. Can any one tell me a replacement for this. Or is there a better type to use.
I believe the value is 10,000 pF with +/- 100% tolerance.

Upon looking at the 12BY7A, there is a piece of metal that goes from the base of the tube up along side the tube. Should this metal be put under the tube shield on the 12BY7A? Thus grounding the shield.

Thank You, Bob Ferrey Jr. N3DOK

[Non-text portions of this message have been removed]

8187. TS520SE & TS530S Needing a Home

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-09 18:10:19 UTC
From: Graham
Topic: 8187 Message: 8187

Greetings.

Probably only of interest to UK Members, but I have a 520SE and a 530S looking for a new home.

The 520 is NOT the prettiest example on earth - but a worker, and develops 100W on all bands.
The 530 is quite clean, but is down on output on 15 & 10 [spare bottles included]

Located in Lancashire, I would prefer collection/meet.

Anyway if anyone wants to discuss these, please contact me offlist.

Thanks and 73

Graham M5AAV

8188. Re: [TS-520_820_530_830] Question about the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-09 18:32:43 UTC
From: Bill Leahy
Topic: 8186 Message: 8188

Hi Bob,

You can remove the shield entirely from the driver and it will run a lot cooler, if you want, with no deleterious effects.

On the filter cap, that is a decoupling cap of 0.01uF value, disc ceramic, 2KV rating. You could get away with 1Kv but that is pushing it.

73,

Bill K0ZL

On 7/9/06, N3DOK <n3dok@...> wrote:
>
> Hi,
> I have a TS-830S. Upon opening up the radio, I have a few questions. This
> group has been very helpful to me in learning more about the TS series of
> Kenwood radios. Thanks to all for your input.
>
> In the RF final section there is a Final Choke # L33-0635-05. Reference
> number L32. At the bottom connection of the choke is light blue capacitor.
> The other end of the capacitor goes to ground. The top of it is cracked. A
> number KC103P is printed on it. I have looked over the TS-830S parts list
> and diagram. Can any one tell me a replacement for this. Or is there a
> better type to use.
> I believe the value is 10,000 pF with +/- 100% tolerance.
>
> Upon looking at the 12BY7A, there is a piece of metal that goes from the
> base of the tube up along side the tube. Should this metal be put under the
> tube shield on the 12BY7A? Thus grounding the shield.
>
> Thank You, Bob Ferrey Jr. N3DOK
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

8189. Re: Question about the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-09 18:34:23 UTC
From: Gordon
Topic: 8186 Message: 8189

Good Morning Bob,
the Metal Strip goes under the shield and wedges between the Glass
and the Shield.
I am looking at my schematic of the TS-830s and I do NOT see a Choke
labeled as L-32 in the Final section.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi,
> I have a TS-830S. Upon opening up the radio, I have a few
questions. This group has been very helpful to me in learning more
about the TS series of Kenwood radios. Thanks to all for your input.
>
> In the RF final section there is a Final Choke # L33-0635-05.
Reference number L32. At the bottom connection of the choke is light
blue capacitor. The other end of the capacitor goes to ground. The
top of it is cracked. A number KC103P is printed on it. I have looked
over the TS-830S parts list and diagram. Can any one tell me a
replacement for this. Or is there a better type to use.
> I believe the value is 10,000 pF with +/- 100% tolerance.
>
> Upon looking at the 12BY7A, there is a piece of metal that goes from
the base of the tube up along side the tube. Should this metal be put
under the tube shield on the 12BY7A? Thus grounding the shield.
>
> Thank You, Bob Ferrey Jr. N3DOK
>
> [Non-text portions of this message have been removed]
>

8190. Re: Question about the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-09 18:57:05 UTC
From: Gordon
Topic: 8186 Message: 8190

Bob,
That capacitor is Actually C8 in on the Schematic.
.01UF @ 2KV Ceramic.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Good Morning Bob,
> the Metal Strip goes under the shield and wedges between the Glass
> and the Shield.
> I am looking at my schematic of the TS-830s and I do NOT see a Choke
> labeled as L-32 in the Final section.
>
> Gordon
>
>
> --- In TS-520_820_530_830@...m, "N3DOK" <n3dok@> wrote:
> >
> > Hi,
> > I have a TS-830S. Upon opening up the radio, I have a few
> questions. This group has been very helpful to me in learning more
> about the TS series of Kenwood radios. Thanks to all for your input.
> >
> > In the RF final section there is a Final Choke # L33-0635-05.
> Reference number L32. At the bottom connection of the choke is light
> blue capacitor. The other end of the capacitor goes to ground. The
> top of it is cracked. A number KC103P is printed on it. I have looked
> over the TS-830S parts list and diagram. Can any one tell me a
> replacement for this. Or is there a better type to use.
> > I believe the value is 10,000 pF with +/- 100% tolerance.
> >
> > Upon looking at the 12BY7A, there is a piece of metal that goes from
> the base of the tube up along side the tube. Should this metal be put
> under the tube shield on the 12BY7A? Thus grounding the shield.
> >
> > Thank You, Bob Ferrey Jr. N3DOK
> >
> > [Non-text portions of this message have been removed]
> >
>

8191. TS-820 # 2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 00:02:44 UTC
From: Gordon
Topic: 8191 Message: 8191

Well, I decided to finally put my TS-820 Repair #2 on the Air last evening on SSB. I tuned it up to 100 watts with it's brand new Finals and looked across the band. My first contact was with W1AW/4 in Tenn on 15 meters, but 15 seemed a bit above the MUF so I dropped to 20 meters and retuned. I immediately found W1AW/4 again, so I worked him, then I started tuning up the band.
I worked Serbia, Ukraine, Estonia, Bulgaria, Canada, European Russia, The Slovak Republic, Poland, Germany (2 times), England, then I swung the beam to the North west and worked Hawaii, Marshall Islands, Japan (4 times) and China. So, Looks like this little TS-820 is working pretty good. Time to sell it and buy another rig to repair and restore. Anyone Interested? contact me OFF list please.

Gordon
N6WK

8192. DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 06:20:32 UTC
From: Gerald R.Gaule
Topic: 8192 Message: 8192

This is KE7GGV...

Where can I find a copy of the Kenwood VFO-820 Manual..on line...I thank you..

THX-DE-KE7GGV-73

Ke7ggv@...

or

gaules@comcast.net

KE7GGV(tech)-Gerald R.Gaule Albany Oregon

http://www.handiham.org/
http://www.qrz.com/callsign/KE7GGV
ECHOLINK NODE # 283278
http://www.echolink.org
http://groups.yahoo.com/group/HAM-APNEACS/

8193. TS-520 dead on LSB??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 15:56:09 UTC
From: mmorris43
Topic: 8193 Message: 8193

Hello All,

I just acquired a TS-520 that is in working condition except
that the LSB receive is dead. I'm in the process of obtaining the operators
manual with the schematic. Anyone on the list seen this problem
before? My first thought is a bad mode switch, I have to think
the USB and LSB share a considerable amount of circuitry.

Thanks for your time,

Mike Morris

8194. Bringing a TS-520S back

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 12:56:35 UTC
From: Jason White
Topic: 8192 Message: 8194

I was able to survey the condition of a TS-520S I've been given in the hopes I could use it as my first HF rig. I was wondering if someone could suggest the best place to start in diagnosing this radio (Or letting me know if I'd be in over my head!)

I connected the radio to my MFJ tuner with a 50 ohm dummy load and a my 40m dipole to switch to for checking reception. The radio powered up and when I turned the RF gain and AF gain up I was treated to white noise from the speaker.. this seems to be about all that the radio can do. I tuned around each band in each mode and heard nothing but white noise. Switching between CW and SSB caused a noticeable change in the audio that sounded normal for SSB, but I couldn't find any signals. Switching to the 25kHz crystal I heard nothing as I tuned around. selecting fixed causes the receiver to go dead. Into the dummy load, the key causes the relays to flip, but there is no measured output, and no increase in current draw despite where I set the drive knob. On SSB, keying the mike had the same effect with no output despite the input audio, although the VOX appears to be working just fine (so I'm assuming the Mic is also working). I was not able to receive WWV even though I could hear it on my small portable SW radio with the whip antenna. I used the portable as a noise source and tried to see if I could pick up the noise of the oscillator in it, but there was nothing. I double checked that I should be hearing it with my Ten Tec pc radio. Switching to VFO.R had no change. The RF gain setting only made the noise louder or softer, in conjunction with the AF gain (obviously :)) The meter never moved except to swing negative when the transceiver flipped to transmit on all 4 settings.

I'm really a total novice to HF since I haven't had an HF radio since I got my General.. Since the VFO (when set to VFO, not VFO.R) seems to have absolutely no effect, I'm thinking the problem lies there somewhere, or perhaps with the mixer? Tuning around there is just steady white noise.. no TV sweep sounds, static crashes, pops, whistles, birdies, heterodynes.. nothing. There is also absolutely no output from the transmitter section, only the sound of a relay switching and the audio goes dead until it flips back to receive. The only other clue I have is that there is no difference in the amount of noise the transceiver makes between having an antenna connected and no antenna. Finally, for some reason, when I would switch from TUN to CW, or to LSB the "Fixed" LED would come on sometimes, regardless of whether fixed was selected or not. The VFO led never lights.

Anything jump out at anyone, or should I sell this thing as parts and try with something else? My main goal is just to get something usable onto the HF bands..I'm not even picky about which band or mode :) I'm a bit nervous at the prospect of fiddling with tubes without much

experience with them. I have very little equipment available to me, essentially just a multimeter and the tuner to check for RF output... so I'm wondering if I could even fix this thing without investing more in equipment than another radio would cost me. The other thing that's somewhat crippling is that I don't have a 2M rig at the moment either so I'm not able to just key up and ask a local ham for advice (my power supply went AWOL when I moved recently). Thanks for listening, and hopefully someone will instill some hope in me.. I'm saving for my wedding so buying a new rig is out of the question..(and also why I haven't replaced my power supply!).. if the Kenwood is dead I'll just have to pack everything away and try the hobby again next year..so I've got my fingers crossed!

Jason White
N1XBP
Woburn, MA

8195. Re: [TS-520_820_530_830] Bringing a TS-520S back

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 20:03:17 UTC
From: n9wb
Topic: 8192 Message: 8195

Jason:

Before we decide if your 520 is reasonably repairable, we need to find out some more things.

Do you have an operators manual? If not you will need one. If you do not, we can tell you where to download one.

On the back of this rig there some plugs and switches, check for the following.

SG must be ON
Rec. ant switch must be in OFF
Xverter switch must be in OFF

Ext. VFO plug, must have dummy plug installed. This is absolutely necessary. If you have no dummy plug, use a piece of a standard paperclip to connect pins 8 and 9 together. These are the last two pins CCW looking at the plug from the rear of the radio.

On the front, Function switch must be in either the VFO (straight up) or 25 kHz position. There will be no operation in the other positions.
Turn RF Gain to maximum.
Turn RF ATT off.
Set band switch to 40 meter band.
You may not hear signals on the dummy load. Try connecting the 40 meter dipole directly to the rig and listen for signals. Also try inserting just the tip of the 40 meter antenna into the antenna connector (SO-239) and observe for receive. Do not attempt to transmit this way.

Set band switch to 40 meters.
Now, connect the rig to the dummy load. Place mode switch in tune. Be sure that the carrier control behind the mike gain is fully up (Clockwise).
Place the meter switch in ALC position. Key the radio and turn the drive control while observing the meter for ALC indication. If it does not show any indication try the same thing on CW. Be sure that nothing is plugged in the CW key jack on the rear of the radio.

If nothing is accomplished with the above, unplug the rig and dissemble the top and bottom covers. Observe closely inside for anything obviously burnt, disconnected, or abnormal looking. Let us know what you see.

Also give us some history of this rig or where did it come from. e-bay? What kind of cosmetic condition is it in ? What test equipment do you have ? Do at least have a simple VOM ? (volt ohm meter)

These rigs are among the easiest to work on. It is quite likely that with the help of some of us that you can fix it and learn in the process.

Vy 73, Walt N9WB

----- Original Message -----
From: Jason White
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 10, 2006 7:56 AM
Subject: [TS-520_820_530_830] Bringing a TS-520S back

I was able to survey the condition of a TS-520S I've been given in the hopes I could use it as my first HF rig. I was wondering if someone could suggest the best place to start in diagnosing this radio (Or letting me know if I'd be in over my head!)

I connected the radio to my MFJ tuner with a 50 ohm dummy load and a my 40m dipole to switch to for checking reception. The radio powered up and when I turned the RF gain and AF gain up I was treated to white noise from the speaker.. this seems to be about all that the radio can do. I tuned around each band in each mode and heard nothing but white noise. Switching between CW and SSB caused a noticeable change in the audio that sounded normal for SSB, but I couldn't find any signals. Switching to the 25kHz crystal I heard nothing as I tuned around. selecting fixed causes the receiver to go dead. Into the dummy load, the key causes the relays to flip, but there is no measured output, and no increase in current draw despite where I set the drive knob. On SSB, keying the mike had the same effect with no output despite the input audio, although the VOX appears to be working just fine (so I'm assuming the Mic is also working). I was not able to receive WWV even though I could hear it on my small portable SW radio with the whip antenna. I used the portable as a noise source and tried to see if I could pick up the noise of the oscillator in it, but there was nothing. I double checked that I should be hearing it with my Ten Tec pc radio. Switching to VFO.R had no change. The RF gain setting only made the noise louder or softer, in conjunction with the AF gain (obviously :)) The meter never moved except to swing negative when the transceiver flipped to transmit on all 4 settings.

I'm really a total novice to HF since I haven't had an HF radio since I got my General.. Since the VFO (when set to VFO, not VFO.R) seems to have absolutely no effect, I'm thinking the problem lies there somewhere, or perhaps with the mixer? Tuning around there is just steady white noise.. no TV sweep sounds, static crashes, pops, whistles, birdies, heterodynes.. nothing. There is also absolutely no output from the transmitter section, only the sound of a relay switching and the audio goes dead until it flips back to receive. The only other clue I have is that there is no difference in the amount of noise the transceiver makes between having an antenna connected and no antenna. Finally, for some reason, when I would switch from TUN to CW, or to LSB the "Fixed" LED would come on sometimes, regardless of whether fixed was selected or not. The VFO led never lights.

Anything jump out at anyone, or should I sell this thing as parts and try with something else? My main goal is just to get something usable onto the HF bands..I'm not even picky about which band or mode :) I'm a bit nervous at the prospect of fiddling with tubes without much

experience with them. I have very little equipment available to me, essentially just a multimeter and the tuner to check for RF output... so I'm wondering if I could even fix this thing without investing more in equipment than another radio would cost me. The other thing that's somewhat crippling is that I don't have a 2M rig at the moment either so I'm not able to just key up and ask a local ham for advice (my power supply went AWOL when I moved recently). Thanks for listening, and hopefully someone will instill some hope in me.. I'm saving for my wedding so buying a new rig is out of the question..(and also why I haven't replaced my power supply!).. if the Kenwood is dead I'll just have to pack everything away and try the hobby again next year..so I've got my fingers crossed!

Jason White
N1XBP
Woburn, MA

[Non-text portions of this message have been removed]

8196. Re: [TS-520_820_530_830] DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 17:30:50 UTC
From: N3DOK
Topic: 8192 Message: 8196

Hi, There is a VFO 820 on this site.
Bob N3DOK

http://www.n6wk.com/kenwood/

----- Original Message -----
From: Gerald R.Gaule
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 10, 2006 2:20 AM
Subject: [TS-520_820_530_830] DE KE7GGV

This is KE7GGV...

Where can I find a copy of the Kenwood VFO-820 Manual..on line...I
thank you..

THX-DE-KE7GGV-73

Ke7ggv@...

or

gaules@...

KE7GGV(tech)-Gerald R.Gaule Albany Oregon

http://www.handiham.org/
http://www.qrz.com/callsign/KE7GGV
ECHOLINK NODE # 283278
http://www.echolink.org
http://groups.yahoo.com/group/HAM-APNEACS/

[Non-text portions of this message have been removed]

8197. Re: [TS-520_820_530_830] Bringing a TS-520S back

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 20:09:08 UTC
From: Jason White
Topic: 8192 Message: 8197

n9wb wrote:
> Jason:
>
> Before we decide if your 520 is reasonably repairable, we need to find out some more things.
>
> Do you have an operators manual? If not you will need one. If you do not, we can tell you where to download one.
>
>
Fortunately, I've got a copy of both the owner's manual and the service manual, but the troubleshooting flowchart in the service manual isn't very explicit. for my situation, it suggests bad transitors.. but it could be because of two things you mentioned:
> On the back of this rig there some plugs and switches, check for the following.
>
> SG must be ON
> Rec. ant switch must be in OFF
> Xverter switch must be in OFF
>
>
I'm fairly certain SG was off. I will follow all your steps and report back what I find when I get home from work

> Ext. VFO plug, must have dummy plug installed.
I think the plug is there.. I used to have a TS-700A (also given to me in a pinch) which had a plug like that, so I know what to look for, but I have to admit I didn't double check, so I'll post what I find when I check all the other steps..

(some parts snipped for brevity)
> Also give us some history of this rig or where did it come from. e-bay? What kind of cosmetic condition is it in ? What test equipment do you have ? Do at least have a simple VOM ? (volt ohm meter)
>
The radio was kept in a garage for about 10 years. When I got my General about a year ago, my father in Florida put out an APB among his friends and the rig was brought out, tuned up, aligned, and passed down to me via a chain of about 4 people here in New England. About the same time I had to move quickly because of a work opportunity, and I ferreted the rig away for a bit until I could get settled and put up an antenna.. I tried to keep it well protected, but a well intentioned but uninformed older sister thought she was doing me a favor, and the radio ended up in a damp basement. To add insult to that injury, she "thinks" it "might" have been knocked around a bit. (ouch!) She thought it was an old stereo. Recently I have managed to get myself in a nice stable spot

where I could put up an antenna, so I retrieved the radio from "storage", set it up, and hesitated for a long time to power it up fearing that I might blow a capacitor or something due to the sub-optimal storage.. Eventually I couldn't take waiting for a variac anymore (and also because the people giving me advice were split 50/50 whether it was wise to use one in the first place), so I just plugged it in and... nothing happened. So, I tracked down a manual, fiddled and twiddled a bit, followed what I could, and I ended up in my present state of white noise, but not much else.. However, this could be because of some of the things you mentioned for me to check, so I'm holding out hope that it's just one of those things.

Physically, the radio looks old, and used, but nothing is missing or broken that can be seen or felt. The worst that could be said is that the handle has a loose thread as far as appearance. When it first came to me it had a light layer of "smokers grime" on the case that I carefully cleaned, but I was told the contacts had been cleaned before I took possession of it. It was quite dusty from it's recent stay in that basement. I opened the case to make sure nothing seemed loose or broken, but other than that I haven't done anything in there. No burnt areas that I noticed.

As for equipment, I have a fairly decent VOM, and that's about it. I've also got someone who has offered to let me use a frequency counter if it will be of assistance in tuning the rig once it's working, but I need to get to that part first.

> These rigs are among the easiest to work on. It is quite likely that with the help of some of us that you can fix it and learn in the process.
>
> Vy 73, Walt N9WB
>

Well that's encouraging, and I'm always up for learning! Thanks for the diagnostic steps, I'll check everything out and post a report tonight and hopefully the radio's condition will be more apparent. I suppose the best thing I have going for me is that I know it was working around a year ago... It's just bothersome because I'm normally quite retentive about preserving my equipment.

73,
Jason
N1XBP

8198. More information on ailing TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 23:10:27 UTC
From: kitsune878
Topic: 8198 Message: 8198

Well, here are the results of checking the various things you mentioned Walt.

The SG was set to off, and the dummy plug was long gone. I jumpered the plug socket and switched on the SG, and powered up the rig.

This time I got a VFO light, and it appears the VFO is functioning, but still little to no sensitivity. I couldn't hear anything I could hear on my portable radio. With the switch set to WWV I could just make out a broadcast station in there somewhere, but the audio was so terrible that I couldn't figure out what it was or what frequency. In fact, the radio only seems to receive anything when it's on WWV... but never WWV.

Set to TUN on 40 meters into a dummy load, I was just able to see the needle budge, but not really move. The meter read something less than a half of a watt output when I tweaked the drive for maximum output. This time, however, with the meter set to HV it deflected completely.

Also, I can hear the 25 Khz tone every 25Khz now when the function knob is set appropriately.

I looked inside the case and I can't find anything that looks visually wrong, or out of place.

I hope that gives a better picture of what is going on.. Thanks for lending an ear!

73 Jason N1XBP

8199. FS: Collector Quality TS520 Station

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 23:44:29 UTC
From: buckygeer
Topic: 8199 Message: 8199

Just do not use so have decided to sell my TS520 Station. Radio is absolutely mint (as is the box) and works perfectly. Includes an excellent condition VFO-520, SP-520 and MC-50 desk mic. prefer pick-up near Memphis TN. but will ship conus. $500 shipped or $450 pick-up. Thanks.....WB5LXZ

8200. TS530SP Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-10 02:32:11 UTC
From: WK9L
Topic: 8200 Message: 8200

I have a question about a TS-530SP I bought one yesterday from a estate. It looks great and operates wonderful, But it has a International radio inc. 2.1 that is wired in on the af board, It makes the receive a little narrow and some say the transmit audio is a little narrow? clean and clear but narrow. What is the transmit band with of the 530? and does anyone know how to undo this little mod.
Next question what is the differance between the 530S and the 530SP?
Mine is a 40 million serial anyone know if it is early or late?
I have wanted a 530 for years and finally found a really nice one.
Thanks for any help.

8201. RE: [TS-520_820_530_830] TS530SP Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-11 07:04:00 UTC
From: Richard Harris
Topic: 8200 Message: 8201

The standard filter as fitted to the TS-530S and SP (YK-88S) is 2.4kHz wide -6dB point and 4.4kHz at -60dB. I believe that the INRAD filters have steeper sides than the Kenwood filters.

The main difference between the TS-530S and TS-530SP is that the 'SP has an audio notch filter. To fit this additional facility, the RF and AF gains are on concentric potentiometers - the notch frequency control potentiometer on the 'SP is where the RF gain was on the 'S model . The notch filter on/off button on the 'SP was the calibrator switch on the 'S and so the 'SP uses the round calibrator button near the display.

I am fortunate in having both the 530S and 530SP and both are fine rigs. I hope that you have as much enjoyment from your 530 as I have had from mine.

73s

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of WK9L
Sent: 10 July 2006 03:32
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS530SP Filter

I have a question about a TS-530SP I bought one yesterday from a
estate. It looks great and operates wonderful, But it has a
International radio inc. 2.1 that is wired in on the af board, It
makes the receive a little narrow and some say the transmit audio is a
little narrow? clean and clear but narrow. What is the transmit band
with of the 530? and does anyone know how to undo this little mod.
Next question what is the differance between the 530S and the 530SP?
Mine is a 40 million serial anyone know if it is early or late?
I have wanted a 530 for years and finally found a really nice one.
Thanks for any help.

[Non-text portions of this message have been removed]

8202. RE: [TS-520_820_530_830] TS530SP Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-11 15:40:23 UTC
From: Perry Cummins
Topic: 8200 Message: 8202

Thanks richard
I am having alot of fun so far. I do want to go back to the orginal filter alone though, The inrad does help under a crowded band though but it is a bit narrow usually.
Thanks
WK9L Perry

Richard Harris <rjharris@...> wrote:
The standard filter as fitted to the TS-530S and SP (YK-88S) is 2.4kHz wide -6dB point and 4.4kHz at -60dB. I believe that the INRAD filters have steeper sides than the Kenwood filters.

The main difference between the TS-530S and TS-530SP is that the 'SP has an audio notch filter. To fit this additional facility, the RF and AF gains are on concentric potentiometers - the notch frequency control potentiometer on the 'SP is where the RF gain was on the 'S model . The notch filter on/off button on the 'SP was the calibrator switch on the 'S and so the 'SP uses the round calibrator button near the display.

I am fortunate in having both the 530S and 530SP and both are fine rigs. I hope that you have as much enjoyment from your 530 as I have had from mine.

73s

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of WK9L
Sent: 10 July 2006 03:32
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS530SP Filter

I have a question about a TS-530SP I bought one yesterday from a
estate. It looks great and operates wonderful, But it has a
International radio inc. 2.1 that is wired in on the af board, It
makes the receive a little narrow and some say the transmit audio is a
little narrow? clean and clear but narrow. What is the transmit band
with of the 530? and does anyone know how to undo this little mod.
Next question what is the differance between the 530S and the 530SP?
Mine is a 40 million serial anyone know if it is early or late?
I have wanted a 530 for years and finally found a really nice one.
Thanks for any help.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Music Unlimited - Access over 1 million songs.Try it free.

[Non-text portions of this message have been removed]

8203. Re: [TS-520_820_530_830] Bringing a TS-520S back

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-11 19:10:21 UTC
From: n9wb
Topic: 8192 Message: 8203

----- Original Message -----
From: Jason White
Bringing a TS-520S back

I suppose the
best thing I have going for me is that I know it was working around a
year ago... It's just bothersome because I'm normally quite retentive
about preserving my equipment.

Jason:
Then I'm betting that you get it going.....Walt N9WB

[Non-text portions of this message have been removed]

8204. Re: [TS-520_820_530_830] TS530SP Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-11 19:38:58 UTC
From: n9wb
Topic: 8200 Message: 8204

Perry:

Inrad filters are great, but you have observed what I have. A narrow filter degrades SSB too much. Narrow filters are not a good way to eliminate interference because it makes the receive audio sound like you have cotton in your ears. The trick is to have a wide flat top and then cut off rapidly at the skirts.

You probably have the model 94. If you had the model 88, I think that you would be very pleased. The 88 is 2.8 kHz bandwidth between 6 dB points and bandwidth of 4.375 kHz between 60 dB points. The top between the 3 dB points is very flat will less rippling. So what you get is wider usable bandwidth and a sharper cutoff beyond that point for good rejection. I have one for my TS-820 and it was an excellent investment. The receive audio is much more pleasing to me.

Vy 73, Walt N9WB

----- Original Message -----
From: Perry Cummins
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 11, 2006 10:40 AM
Subject: RE: [TS-520_820_530_830] TS530SP Filter

Thanks richard
I am having alot of fun so far. I do want to go back to the orginal filter alone though, The inrad does help under a crowded band though but it is a bit narrow usually.
Thanks
WK9L Perry

Richard Harris <rjharris@...> wrote:
The standard filter as fitted to the TS-530S and SP (YK-88S) is 2.4kHz wide -6dB point and 4.4kHz at -60dB. I believe that the INRAD filters have steeper sides than the Kenwood filters.

The main difference between the TS-530S and TS-530SP is that the 'SP has an audio notch filter. To fit this additional facility, the RF and AF gains are on concentric potentiometers - the notch frequency control potentiometer on the 'SP is where the RF gain was on the 'S model . The notch filter on/off button on the 'SP was the calibrator switch on the 'S and so the 'SP uses the round calibrator button near the display.

I am fortunate in having both the 530S and 530SP and both are fine rigs. I hope that you have as much enjoyment from your 530 as I have had from mine.

73s

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On

Behalf Of WK9L
Sent: 10 July 2006 03:32
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS530SP Filter

I have a question about a TS-530SP I bought one yesterday from a estate. It looks great and operates wonderful, But it has a International radio inc. 2.1 that is wired in on the af board, It makes the receive a little narrow and some say the transmit audio is a little narrow? clean and clear but narrow. What is the transmit band with of the 530? and does anyone know how to undo this little mod. Next question what is the differance between the 530S and the 530SP? Mine is a 40 million serial anyone know if it is early or late? I have wanted a 530 for years and finally found a really nice one. Thanks for any help.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Music Unlimited - Access over 1 million songs.Try it free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8205. Re: [TS-520_820_530_830] TS530SP Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-11 22:08:55 UTC
From: Perry Cummins
Topic: 8200 Message: 8205

Hello Walt
I have the 88H whitch says it it is 2.1 but, If I use the I.F. shift and shift it over about a 1/4 of the way it does sound OK, I have discovered this after a few days of playing with the radio. So far I love this radio, I have wanted to play with one for ever, It also had not been opened up for 17 and 12 meters, and I have done that and put it to use on 17 meters. I have had a couple of 830's but I just like the looks of the 530 and so far am very happy with it, the receiver I think is as good as 830's I have had. Thanks guys for the replys.
Perry WK9L
n9wb <n9wb@...> wrote:
Perry:

Inrad filters are great, but you have observed what I have. A narrow filter degrades SSB too much. Narrow filters are not a good way to eliminate interference because it makes the receive audio sound like you have cotton in your ears. The trick is to have a wide flat top and then cut off rapidly at the skirts.

You probably have the model 94. If you had the model 88, I think that you would be very pleased. The 88 is 2.8 kHz bandwidth between 6 dB points and bandwidth of 4.375 kHz between 60 dB points. The top between the 3 dB points is very flat will less rippling. So what you get is wider usable bandwidth and a sharper cutoff beyond that point for good rejection. I have one for my TS-820 and it was an excellent investment. The receive audio is much more pleasing to me.

Vy 73, Walt N9WB

----- Original Message -----
From: Perry Cummins
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 11, 2006 10:40 AM
Subject: RE: [TS-520_820_530_830] TS530SP Filter

Thanks richard
I am having alot of fun so far. I do want to go back to the orginal filter alone though, The inrad does help under a crowded band though but it is a bit narrow usually.
Thanks
WK9L Perry

Richard Harris wrote:
The standard filter as fitted to the TS-530S and SP (YK-88S) is 2.4kHz wide -6dB point and 4.4kHz at -60dB. I believe that the INRAD filters have steeper sides than the Kenwood filters.

The main difference between the TS-530S and TS-530SP is that the 'SP has an audio notch filter. To fit this additional facility, the RF and AF gains are on concentric potentiometers - the notch frequency control potentiometer on the 'SP is where the RF gain was on the 'S model . The notch filter on/off button on the 'SP was the calibrator switch

on the 'S and so the 'SP uses the round calibrator button near the display.

I am fortunate in having both the 530S and 530SP and both are fine rigs. I hope that you have as much enjoyment from your 530 as I have had from mine.

73s

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of WK9L
Sent: 10 July 2006 03:32
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS530SP Filter

I have a question about a TS-530SP I bought one yesterday from a
estate. It looks great and operates wonderful, But it has a
International radio inc. 2.1 that is wired in on the af board, It
makes the receive a little narrow and some say the transmit audio is a
little narrow? clean and clear but narrow. What is the transmit band
with of the 530? and does anyone know how to undo this little mod.
Next question what is the differance between the 530S and the 530SP?
Mine is a 40 million serial anyone know if it is early or late?
I have wanted a 530 for years and finally found a really nice one.
Thanks for any help.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Music Unlimited - Access over 1 million songs.Try it free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Want to be your own boss? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

8206. Kenwood TS-530SP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-11 22:21:47 UTC
From: N3DOK
Topic: 8206 Message: 8206

http://www.universal-radio.com/catalog/hamhf/ts530sp.html

The Kenwood TS-530SP is similar to the TS-530S. It is designed for SSB and CW modes in the 160 through 10 meter ham bands, and includes the 30, 17 and 12 meter WARC bands. Power output is 220W PEP SSB and 180W DC CW. The finals are a pair of 6146B or S2001A tubes. One key enhancement over the TS-530S is a Notch filter. (This transceiver does not have general coverage receive).

Requires 120 VAC 50/60 Hz 295 W. 13.3 x 5.3 x 13.37 inches 28.2 lbs (333x133x333mm 12.8 kg).

Features
a.. 160-10 meters
b.. WARC Bands
c.. VOX
d.. NB
e.. 25 kHz Marker
f.. Notch Filter
a.. RIT/XIT
b.. Speech Processor
c.. IF Shift
d.. RF Attenuator
e.. 120 VAC Operation
f..

Options
Order # Item Description List Price Your Price Order
AT-230 External manual antenna tuner 160-10M. INFO Discontinued
AT-250 External automatic antenna tuner 160-10M. INFO Discontinued
BS-8 Pan adapter for SM-220. Discontinued
KB-1 Deluxe VFO spinner knob. INFO Discontinued
MC-30S Hand mic 500 ohm 4 pin. Discontinued
MC-35 Hand mic 50K ohm 4 pin. Discontinued
MC-50 Desk mic 500/50K ohm 4 pin. Discontinued
MC-60[N4] Desk mic 500/50K ohm 4 pin. Discontinued
#0368 MC-60A Deluxe desk mic with preamp (8 pin). Requires MJ-84. $174.95 $149.95
MJ-84 8 pin to 4 pin mic plug adapter. Discontinued
PC-1A Phone patch. Discontinued
SM-220 Station monitor scope. INFO Discontinued
SP-230 Matching base speaker with filtration. INFO Discontinued
VFO-230 External remote digital VFO. INFO Discontinued
VFO-240 External remote analog VFO. INFO Discontinued
YK-88C CW Filter 500 Hz Discontinued
YK-88CN CW Filter 270 Hz Discontinued
YK-88SN SSB Filter 1.8 kHz Discontinued

[Non-text portions of this message have been removed]

8207. My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 02:45:02 UTC
From: Gordon
Topic: 8207 Message: 8207

Hi Group,
My newest project is a TS-830S that was a Dead player when I received it. No receive and No transmit, but it did have "White Noise Audio". I was able to trace the lack of signal to a bad Q5 on the RF board, which after changing, allowed the RF Amp to work. However, The signals are VERY weak. I continued my diagnostics and found a Burnt ressitor on the rectifier board for the 210A circuit, caused by a pinched wire under the RF board. Ok, Fixed that. Now the rig Transmits and receives, but signals are VERY weak. I did an alignment of the Ant and the Mix coils today. What I found is, The Mix Coils seem to do NOTHING at all. The ANT coils do show some sound change when I adjust them using the calibrator as a source.
The only band that shows ANY S meter movement at all when doing the Alignment is 15 meters. I am looking for Ideas???? I looked at the schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would effect Everything in the MIX Coils... Ideas anyone ?? I have NOT removed the coil yet to Ohm it.

Gordon

8208. Re: [TS-520_820_530_830] My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 03:05:08 UTC
From: Pierre Wells
Topic: 8207 Message: 8208

The first thing to do to the Kenwoods is clean the relays ...mostly the antenna relay enclosed in the little metal box near the rf cage. More often than not this alone will bring back normal reception levels. Use business card paper cut up in strips and soaked in contact cleaner and pass the strip many times along the contacts. After pass a dry strip to burnish (a bit) the contacts. I repeat this operation two or three times. I brought a perfectly good but deaf TS 820 back to life this way. Never use abrasive paper or (fine) files...all you will succeed in doing is take away the very fine silver or gold coating on the relay contacts and it will fail completely in a few weeks.
73
Peter VE2FAR

Gordon <n6wk@...> wrote: Hi Group,
My newest project is a TS-830S that was a Dead player when I
received it. No receive and No transmit, but it did have "White Noise
Audio". I was able to trace the lack of signal to a bad Q5 on the RF
board, which after changing, allowed the RF Amp to work. However, The
signals are VERY weak. I continued my diagnostics and found a Burnt
ressitor on the rectifier board for the 210A circuit, caused by a
pinched wire under the RF board. Ok, Fixed that. Now the rig Transmits
and receives, but signals are VERY weak. I did an alignment of the Ant
and the Mix coils today. What I found is, The Mix Coils seem to do
NOTHING at all. The ANT coils do show some sound change when I adjust
them using the calibrator as a source.
The only band that shows ANY S meter movement at all when doing the
Alignment is 15 meters. I am looking for Ideas???? I looked at the
schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
removed the coil yet to Ohm it.

Gordon

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8209. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 05:17:39 UTC
From: Gordon
Topic: 8207 Message: 8209

Thanks Peter,
I will try that tomorrow and let you know if it helps.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Pierre Wells
<lool5552002@...> wrote:
>
> The first thing to do to the Kenwoods is clean the relays ...mostly
the antenna relay enclosed in the little metal box near the rf cage.
More often than not this alone will bring back normal reception
levels. Use business card paper cut up in strips and soaked in contact
cleaner and pass the strip many times along the contacts. After pass a
dry strip to burnish (a bit) the contacts. I repeat this operation
two or three times. I brought a perfectly good but deaf TS 820 back to
life this way. Never use abrasive paper or (fine) files...all you will
succeed in doing is take away the very fine silver or gold coating on
the relay contacts and it will fail completely in a few weeks.
> 73
> Peter VE2FAR
>
> Gordon <n6wk@...> wrote: Hi Group,
> My newest project is a TS-830S that was a Dead player when I
> received it. No receive and No transmit, but it did have "White Noise
> Audio". I was able to trace the lack of signal to a bad Q5 on the RF
> board, which after changing, allowed the RF Amp to work. However, The
> signals are VERY weak. I continued my diagnostics and found a Burnt
> ressitor on the rectifier board for the 210A circuit, caused by a
> pinched wire under the RF board. Ok, Fixed that. Now the rig Transmits
> and receives, but signals are VERY weak. I did an alignment of the Ant
> and the Mix coils today. What I found is, The Mix Coils seem to do
> NOTHING at all. The ANT coils do show some sound change when I adjust
> them using the calibrator as a source.
> The only band that shows ANY S meter movement at all when doing the
> Alignment is 15 meters. I am looking for Ideas???? I looked at the
> schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> removed the coil yet to Ohm it.
>
> Gordon
>
>
>
>

>
>
> ---------------------------------
> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>

8210. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 06:38:51 UTC
From: Gordon
Topic: 8207 Message: 8210

Hi Peter,
I cleaned the relay contacts, But still, Very Low Receive. The Relay
ohms GOOD !!

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks Peter,
> I will try that tomorrow and let you know if it helps.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Pierre Wells
> <lool5552002@> wrote:
> >
> > The first thing to do to the Kenwoods is clean the relays ...mostly
> the antenna relay enclosed in the little metal box near the rf cage.
> More often than not this alone will bring back normal reception
> levels. Use business card paper cut up in strips and soaked in contact
> cleaner and pass the strip many times along the contacts. After pass a
> dry strip to burnish (a bit) the contacts. I repeat this operation
> two or three times. I brought a perfectly good but deaf TS 820 back to
> life this way. Never use abrasive paper or (fine) files...all you will
> succeed in doing is take away the very fine silver or gold coating on
> the relay contacts and it will fail completely in a few weeks.
> > 73
> > Peter VE2FAR
> >
> > Gordon <n6wk@> wrote: Hi Group,
> > My newest project is a TS-830S that was a Dead player when I
> > received it. No receive and No transmit, but it did have "White Noise
> > Audio". I was able to trace the lack of signal to a bad Q5 on the RF
> > board, which after changing, allowed the RF Amp to work. However, The
> > signals are VERY weak. I continued my diagnostics and found a Burnt
> > ressitor on the rectifier board for the 210A circuit, caused by a
> > pinched wire under the RF board. Ok, Fixed that. Now the rig
Transmits
> > and receives, but signals are VERY weak. I did an alignment of
the Ant
> > and the Mix coils today. What I found is, The Mix Coils seem to do
> > NOTHING at all. The ANT coils do show some sound change when I adjust
> > them using the calibrator as a source.
> > The only band that shows ANY S meter movement at all when doing the

> > Alignment is 15 meters. I am looking for Ideas???? I looked at the
> > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > removed the coil yet to Ohm it.
> >
> > Gordon
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Do you Yahoo!?
> > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> >
> > [Non-text portions of this message have been removed]
> >
>

8211. Re: [TS-520_820_530_830] Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 12:11:28 UTC
From: Bill Leahy
Topic: 8207 Message: 8211

L41 is open.

They are no longer available.

Anyone up to the challenge of making a replacement for these?

bill

On 7/12/06, Gordon <n6wk@...> wrote:
>
> Hi Peter,
> I cleaned the relay contacts, But still, Very Low Receive. The Relay
> ohms GOOD !!
>
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "Gordon" <n6wk@...> wrote:
> >
> > Thanks Peter,
> > I will try that tomorrow and let you know if it helps.
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> Pierre Wells
> > <lool5552002@> wrote:
> > >
> > > The first thing to do to the Kenwoods is clean the relays ...mostly
> > the antenna relay enclosed in the little metal box near the rf cage.
> > More often than not this alone will bring back normal reception
> > levels. Use business card paper cut up in strips and soaked in contact
> > cleaner and pass the strip many times along the contacts. After pass a
> > dry strip to burnish (a bit) the contacts. I repeat this operation
> > two or three times. I brought a perfectly good but deaf TS 820 back to
> > life this way. Never use abrasive paper or (fine) files...all you will
> > succeed in doing is take away the very fine silver or gold coating on
> > the relay contacts and it will fail completely in a few weeks.
> > > 73
> > > Peter VE2FAR
> > >
> > > Gordon <n6wk@> wrote: Hi Group,
> > > My newest project is a TS-830S that was a Dead player when I
> > > received it. No receive and No transmit, but it did have "White Noise

> > > Audio". I was able to trace the lack of signal to a bad Q5 on the RF
> > > board, which after changing, allowed the RF Amp to work. However, The
> > > signals are VERY weak. I continued my diagnostics and found a Burnt
> > > ressitor on the rectifier board for the 210A circuit, caused by a
> > > pinched wire under the RF board. Ok, Fixed that. Now the rig
> Transmits
> > > and receives, but signals are VERY weak. I did an alignment of
> the Ant
> > > and the Mix coils today. What I found is, The Mix Coils seem to do
> > > NOTHING at all. The ANT coils do show some sound change when I adjust
> > > them using the calibrator as a source.
> > > The only band that shows ANY S meter movement at all when doing the
> > > Alignment is 15 meters. I am looking for Ideas???? I looked at the
> > > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > > removed the coil yet to Ohm it.
> > >
> > > Gordon
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Do you Yahoo!?
> > > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>

[Non-text portions of this message have been removed]

8212. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 20:41:23 UTC
From: Gordon
Topic: 8207 Message: 8212

Thanks Bill.,
I figured as much. Anyone have an L41 that they are willing to sell?
Are these Coils Repairable ? Can they be rewound ? Can they be
replaced with something different ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...>
wrote:
>
> L41 is open.
>
> They are no longer available.
>
> Anyone up to the challenge of making a replacement for these?
>
> bill
>
>
> On 7/12/06, Gordon <n6wk@...> wrote:
> >
> > Hi Peter,
> > I cleaned the relay contacts, But still, Very Low Receive. The Relay
> > ohms GOOD !!
> >
> > Gordon
> >
> >
> > --- In
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > "Gordon" <n6wk@> wrote:
> > >
> > > Thanks Peter,
> > > I will try that tomorrow and let you know if it helps.
> > >
> > > 73,
> > > Gordon
> > >
> > > --- In
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > Pierre Wells
> > > <lool5552002@> wrote:
> > > >
> > > > The first thing to do to the Kenwoods is clean the relays
...mostly

> > > the antenna relay enclosed in the little metal box near the rf cage.
> > > More often than not this alone will bring back normal reception
> > > levels. Use business card paper cut up in strips and soaked in
contact
> > > cleaner and pass the strip many times along the contacts. After
pass a
> > > dry strip to burnish (a bit) the contacts. I repeat this operation
> > > two or three times. I brought a perfectly good but deaf TS 820
back to
> > > life this way. Never use abrasive paper or (fine) files...all
you will
> > > succeed in doing is take away the very fine silver or gold
coating on
> > > the relay contacts and it will fail completely in a few weeks.
> > > > 73
> > > > Peter VE2FAR
> > > >
> > > > Gordon <n6wk@> wrote: Hi Group,
> > > > My newest project is a TS-830S that was a Dead player when I
> > > > received it. No receive and No transmit, but it did have
"White Noise
> > > > Audio". I was able to trace the lack of signal to a bad Q5 on
the RF
> > > > board, which after changing, allowed the RF Amp to work.
However, The
> > > > signals are VERY weak. I continued my diagnostics and found a
Burnt
> > > > ressitor on the rectifier board for the 210A circuit, caused by a
> > > > pinched wire under the RF board. Ok, Fixed that. Now the rig
> > Transmits
> > > > and receives, but signals are VERY weak. I did an alignment of
> > the Ant
> > > > and the Mix coils today. What I found is, The Mix Coils seem to do
> > > > NOTHING at all. The ANT coils do show some sound change when I
adjust
> > > > them using the calibrator as a source.
> > > > The only band that shows ANY S meter movement at all when
doing the
> > > > Alignment is 15 meters. I am looking for Ideas???? I looked at the
> > > > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > > > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > > > removed the coil yet to Ohm it.
> > > >
> > > > Gordon
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >

> > > > ---------------------------------
> > > > Do you Yahoo!?
> > > > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8214. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-12 21:27:58 UTC
From: Gordon
Topic: 8207 Message: 8214

Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
out. All 4 wire terminals have continuity with each other and it
smells Burnt.
Boy, That's some small wire to try and rewind..hi hi..
I'm hoping someone has one they will sell me.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks Bill.,
> I figured as much. Anyone have an L41 that they are willing to sell?
> Are these Coils Repairable ? Can they be rewound ? Can they be
> replaced with something different ?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@>
> wrote:
> >
> > L41 is open.
> >
> > They are no longer available.
> >
> > Anyone up to the challenge of making a replacement for these?
> >
> > bill
> >
> >
> > On 7/12/06, Gordon <n6wk@> wrote:
> > >
> > > Hi Peter,
> > > I cleaned the relay contacts, But still, Very Low Receive. The Relay
> > > ohms GOOD !!
> > >
> > > Gordon
> > >
> > >
> > > --- In
>
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > > "Gordon" <n6wk@> wrote:
> > > >
> > > > Thanks Peter,
> > > > I will try that tomorrow and let you know if it helps.

> > > >
> > > > 73,
> > > > Gordon
> > > >
> > > > --- In
>
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > > Pierre Wells
> > > > <lool5552002@> wrote:
> > > > >
> > > > > The first thing to do to the Kenwoods is clean the relays
> ...mostly
> > > > the antenna relay enclosed in the little metal box near the rf
cage.
> > > > More often than not this alone will bring back normal reception
> > > > levels. Use business card paper cut up in strips and soaked in
> contact
> > > > cleaner and pass the strip many times along the contacts. After
> pass a
> > > > dry strip to burnish (a bit) the contacts. I repeat this
operation
> > > > two or three times. I brought a perfectly good but deaf TS 820
> back to
> > > > life this way. Never use abrasive paper or (fine) files...all
> you will
> > > > succeed in doing is take away the very fine silver or gold
> coating on
> > > > the relay contacts and it will fail completely in a few weeks.
> > > > > 73
> > > > > Peter VE2FAR
> > > > >
> > > > > Gordon <n6wk@> wrote: Hi Group,
> > > > > My newest project is a TS-830S that was a Dead player when I
> > > > > received it. No receive and No transmit, but it did have
> "White Noise
> > > > > Audio". I was able to trace the lack of signal to a bad Q5 on
> the RF
> > > > > board, which after changing, allowed the RF Amp to work.
> However, The
> > > > > signals are VERY weak. I continued my diagnostics and found a
> Burnt
> > > > > ressitor on the rectifier board for the 210A circuit, caused
by a
> > > > > pinched wire under the RF board. Ok, Fixed that. Now the rig
> > > Transmits
> > > > > and receives, but signals are VERY weak. I did an alignment of
> > > the Ant
> > > > > and the Mix coils today. What I found is, The Mix Coils seem
to do
> > > > > NOTHING at all. The ANT coils do show some sound change when I

> adjust
> > > > > them using the calibrator as a source.
> > > > > The only band that shows ANY S meter movement at all when
> doing the
> > > > > Alignment is 15 meters. I am looking for Ideas???? I looked
at the
> > > > > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > > > > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > > > > removed the coil yet to Ohm it.
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > ---------------------------------
> > > > > > Do you Yahoo!?
> > > > > > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> > > > > >
> > > > > > [Non-text portions of this message have been removed]
> > > > > >
> > > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> >
>

8215. Collector 520 Station Sold

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 01:44:37 UTC
From: buckygeer
Topic: 8215 Message: 8215

Thanks for the response.

8216. Re: [TS-520_820_530_830] Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 01:55:24 UTC
From: David Franklin
Topic: 8207 Message: 8216

Gordon,

I had a similar problem with my TS-820. L8 on the coil pack was burned shorted. It had the same symptoms, all four leads were shorted. It is in the RX antenna path therefore it caused the sensitivity to be very low.

I was able to unwind the coil very carefully counting the turns and rewind using wire from a coil on a stripped Hallicrafters S-40 chassis.

Might be worth a try if you cannot find a replacement.

Good Luck,
Dave
ki4jsn

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, July 12, 2006 5:27 PM
Subject: [TS-520_820_530_830] Re: My Newest Project.

Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted out. All 4 wire terminals have continuity with each other and it smells Burnt.
Boy, That's some small wire to try and rewind..hi hi..
I'm hoping someone has one they will sell me.

Gordon

8217. Re: [TS-520_820_530_830] Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 08:04:11 UTC
From: Walt Breining
Topic: 8207 Message: 8217

Gordon:

I understand that failure of L 41 is very common, although it is interesting that L1, L2, and L5 don't also get wiped. You may want to check the connections where the coil was to see if there is any voltage there that should not be. We are assuming that a surge such as lightning came in from the antenna.

I have not been inside an 830 for years. Is this a slug tuned coil, Is it covered by a can? From the diagram, it has a low impedance input and a higher impedance secondary and is an RF transformer.

I wonder if it would be possible to use a transformer that feeds the first mixer in some kind of AM radio receiver? I see that it shows a 1.5 m below it and 1.5 MHz will fall in the AM band.

Just thinking, which usually gets me into much trouble.

Vie 73, Walt N9WB

----- Original Message -----L
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 12, 2006 4:27 PM
Subject: [TS-520_820_530_830] Re: My Newest Project.

Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
out. All 4 wire terminals have continuity with each other and it
smells Burnt.
Boy, That's some small wire to try and rewind..hi hi..
I'm hoping someone has one they will sell me.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks Bill.,
> I figured as much. Anyone have an L41 that they are willing to sell?
> Are these Coils Repairable ? Can they be rewound ? Can they be
> replaced with something different ?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@>
> wrote:
> >
> > L41 is open.
> >

> > They are no longer available.
> >
> > Anyone up to the challenge of making a replacement for these?
> >
> > bill
> >
> >
> > On 7/12/06, Gordon <n6wk@> wrote:
> > >
> > > Hi Peter,
> > > I cleaned the relay contacts, But still, Very Low Receive. The Relay
> > > ohms GOOD !!
> > >
> > > Gordon
> > >
> > >
> > > --- In
> >
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > > "Gordon" <n6wk@> wrote:
> > > >
> > > > Thanks Peter,
> > > > I will try that tomorrow and let you know if it helps.
> > > >
> > > > 73,
> > > > Gordon
> > > >
> > > > --- In
> >
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > > Pierre Wells
> > > > <lool5552002@> wrote:
> > > > >
> > > > > The first thing to do to the Kenwoods is clean the relays
> ...mostly
> > > > the antenna relay enclosed in the little metal box near the rf
cage.
> > > > More often than not this alone will bring back normal reception
> > > > levels. Use business card paper cut up in strips and soaked in
> contact
> > > > cleaner and pass the strip many times along the contacts. After
> pass a
> > > > dry strip to burnish (a bit) the contacts. I repeat this
operation
> > > > two or three times. I brought a perfectly good but deaf TS 820
> back to
> > > > life this way. Never use abrasive paper or (fine) files...all
> you will
> > > > succeed in doing is take away the very fine silver or gold
> coating on

> > > > the relay contacts and it will fail completely in a few weeks.
> > > > > 73
> > > > > Peter VE2FAR
> > > > >
> > > > > Gordon <n6wk@> wrote: Hi Group,
> > > > > My newest project is a TS-830S that was a Dead player when I
> > > > > received it. No receive and No transmit, but it did have
> "White Noise
> > > > > Audio". I was able to trace the lack of signal to a bad Q5 on
> the RF
> > > > > board, which after changing, allowed the RF Amp to work.
> However, The
> > > > > signals are VERY weak. I continued my diagnostics and found a
> Burnt
> > > > > ressitor on the rectifier board for the 210A circuit, caused
by a
> > > > > pinched wire under the RF board. Ok, Fixed that. Now the rig
> > > Transmits
> > > > > and receives, but signals are VERY weak. I did an alignment of
> > > the Ant
> > > > > and the Mix coils today. What I found is, The Mix Coils seem
to do
> > > > > NOTHING at all. The ANT coils do show some sound change when I
> adjust
> > > > > them using the calibrator as a source.
> > > > > The only band that shows ANY S meter movement at all when
> doing the
> > > > > Alignment is 15 meters. I am looking for Ideas???? I looked
at the
> > > > > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > > > > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > > > > removed the coil yet to Ohm it.
> > > > >
> > > > > Gordon
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > ---------------------------------
> > > > > Do you Yahoo!?
> > > > > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > >
> > >
> >

> >
> >
> > [Non-text portions of this message have been removed]
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.9.10/386 - Release Date: 7/12/06

[Non-text portions of this message have been removed]

8218. TS-130 S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 15:05:35 UTC
From: Frank
Topic: 8218 Message: 8218

Hello to all,

After restoring two 830, I now have purchased a ts-130s. The problem here is that there is no rx and no display on 12m. All the other bands are ok. The warc modification is done. Any idea where to start looking ? Another problem is that there is a lot of "free play" on the bandswitch.

All suggestions are welcome
Thanks
73
Frank

8219. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 18:15:30 UTC
From: Gordon
Topic: 8207 Message: 8219

Hi Walt,
I also wondered about L1 and L2. I didn't worry about L5 as it is the 3.5 M coil and isn't part of the Antenna Input. I also was suspicious of High Voltages, But so far, everything appears normal. Perhaps the Lightning Idea is the root cause.
Yes It is a slug tuned Coil covered by a Can. I also thought of trying to use one from an old AM radio if I could not find the original.I unwound the coil last night and found the the Insulation coating on the wires was gone and it was shorted , I carfully rewound it and put it back into the rig, then I actually was getting good response when doing the alignment, however, I inadvertanly used a metal tip tool to adjust L41 and BROKE the Slug, then broke the coil while trying to get the broken slug out. (Talk about going from bad to worse)
I had a fellow contact me who has the Coil and the connectors I needed. I purchased them and he is shipping them today.
I searched the Net and found that Burghardt actually has that Exact Part number,(L34-2004-05) but they just list it as input transformer. I tried to call them to ask if it was a slug tuned transformer/coil but the line was busy for over an hour when I tried.
So what Did I learn, "NEVER USE A METAL TIPPED TOOL" when Adjusting Slugs ! Luckily for me, someone came forward with the parts I need.
73,
Gordon

)--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Gordon:
>
> I understand that failure of L 41 is very common, although it is interesting that L1, L2, and L5 don't also get wiped. You may want to check the connections where the coil was to see if there is any voltage there that should not be. We are assuming that a surge such as lightning came in from the antenna.
>
> I have not been inside an 830 for years. Is this a slug tuned coil, Is it covered by a can? From the diagram, it has a low impedance input and a higher impedance secondary and is an RF transformer.
>
> I wonder if it would be possible to use a transformer that feeds the first mixer in some kind of AM radio receiver? I see that it shows a 1.5 m below it and 1.5 MHz will fall in the AM band.
>
> Just thinking, which usually gets me into much trouble.

>
> Vie 73, Walt N9WB
>
>
> ----- Original Message -----L
> From: Gordon
> To: TS-520_820_530_830@...m
> Sent: Wednesday, July 12, 2006 4:27 PM
> Subject: [TS-520_820_530_830] Re: My Newest Project.
>
>
> Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
> out. All 4 wire terminals have continuity with each other and it
> smells Burnt.
> Boy, That's some small wire to try and rewind..hi hi..
> I'm hoping someone has one they will sell me.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks Bill.,
> > I figured as much. Anyone have an L41 that they are willing to sell?
> > Are these Coils Repairable ? Can they be rewound ? Can they be
> > replaced with something different ?
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@>
> > wrote:
> > >
> > > L41 is open.
> > >
> > > They are no longer available.
> > >
> > > Anyone up to the challenge of making a replacement for these?
> > >
> > > bill
> > >
> > >
> > > On 7/12/06, Gordon <n6wk@> wrote:
> > > >
> > > > Hi Peter,
> > > > I cleaned the relay contacts, But still, Very Low Receive.
The Relay
> > > > ohms GOOD !!
> > > >
> > > > Gordon
> > > >
> > > >

> > > > --- In
> >
>
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > > > "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Thanks Peter,
> > > > > I will try that tomorrow and let you know if it helps.
> > > > >
> > > > > 73,
> > > > > Gordon
> > > > >
> > > > > --- In
> >
>
TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> > > > Pierre Wells
> > > > > <lool5552002@> wrote:
> > > > >
> > > > > The first thing to do to the Kenwoods is clean the relays
> > ...mostly
> > > > > the antenna relay enclosed in the little metal box near the rf
> cage.
> > > > > More often than not this alone will bring back normal
reception
> > > > > levels. Use business card paper cut up in strips and soaked in
> > contact
> > > > > cleaner and pass the strip many times along the contacts.
After
> > pass a
> > > > > dry strip to burnish (a bit) the contacts. I repeat this
> operation
> > > > > two or three times. I brought a perfectly good but deaf TS 820
> > back to
> > > > > life this way. Never use abrasive paper or (fine) files...all
> > you will
> > > > > succeed in doing is take away the very fine silver or gold
> > coating on
> > > > > the relay contacts and it will fail completely in a few weeks.
> > > > > > 73
> > > > > > Peter VE2FAR
> > > > >
> > > > > Gordon <n6wk@> wrote: Hi Group,
> > > > > My newest project is a TS-830S that was a Dead player when I
> > > > > received it. No receive and No transmit, but it did have
> > "White Noise
> > > > > Audio". I was able to trace the lack of signal to a bad
Q5 on
> > the RF
> > > > > board, which after changing, allowed the RF Amp to work.

> > However, The
> > > > > > signals are VERY weak. I continued my diagnostics and
found a
> > Burnt
> > > > > > ressitor on the rectifier board for the 210A circuit, caused
> by a
> > > > > > pinched wire under the RF board. Ok, Fixed that. Now the rig
> > > > Transmits
> > > > > > and receives, but signals are VERY weak. I did an
alignment of
> > > > the Ant
> > > > > > and the Mix coils today. What I found is, The Mix Coils seem
> to do
> > > > > > NOTHING at all. The ANT coils do show some sound change
when I
> > adjust
> > > > > > them using the calibrator as a source.
> > > > > > The only band that shows ANY S meter movement at all when
> > doing the
> > > > > > Alignment is 15 meters. I am looking for Ideas???? I looked
> at the
> > > > > > schematic and it appears if L41 (1.5 MHZ Coil) is Open,
it would
> > > > > > effect Everything in the MIX Coils... Ideas anyone ?? I
have NOT
> > > > > > removed the coil yet to Ohm it.
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > ---------------------------------
> > > > > > Do you Yahoo!?
> > > > > > Next-gen email? Have it all with the all-new Yahoo! Mail
Beta.
> > > > > >
> > > > > > [Non-text portions of this message have been removed]
> > > > > >
> > > > >
> > > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >

>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.9.10/386 - Release Date:
7/12/06
>
>
> [Non-text portions of this message have been removed]
>

8220. Re: TS-130 S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 18:26:16 UTC
From: Gordon
Topic: 8218 Message: 8220

Frank,
The FIRST thing I would do would be to Locate the cause of the excessive play in the band switch. I then would clean the contacts on the bandswitch with de-oxit. Also, I used to have a TS-130S and there were some issues with the board screws not being tight enough and therefore causing bad grounds. I will try to find some of the articles I used to have for the 130.
For now, Take a good look at that band switch

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Frank" <on4kz@...> wrote:
>
> Hello to all,
>
> After restoring two 830, I now have purchased a ts-130s. The problem
> here is that there is no rx and no display on 12m. All the other bands
> are ok. The warc modification is done. Any idea where to start looking ?
> Another problem is that there is a lot of "free play" on the bandswitch.
>
> All suggestions are welcome
> Thanks
> 73
> Frank
>

8221. Ebay TS520S item 9740908208

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 18:51:42 UTC
From: stevehurstg8lik2003
Topic: 8221 Message: 8221

Bought this as was described as VGC and from someone with over 200 positive feedbacks (no negatives). However it was obvious the rig had been dropped on its back at some time before transit, top RH corner of the cover plate was crushed inwards and the rear chassis had a deformation where it had been bent after presumably landing on something hard on the 12VDC heatsink.
Certainly would decribe it as 'fair' not very good in view of marks, failing RHS leather carry handle. Also apparent that 28MHZ bands had been changed to CB,well I can live without that for £125 plus shipping of £23.And don't want to predudice my 100% feedback status hi!
Interesting fault-the stock microphone (not suppled) would not engage transmit though by selecting 'SEND' all OK. Internal examination showed a broken earth wire to the microphone socket from the chassis-cured with a dab of solder.
Anyway about the 4th contact was 3X2 (Republic of Guinea, West Africa) so seems a better buy now :) In any case you have to take the rough...with the smooth
Moral-can't always expect great things even from Ebayers with great scores....let the buyer beware.
Best 73's to all and its a great forum, have learnt a lot!

Cheers, Steve G8LIK

8222. help with possible receive fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 19:13:27 UTC
From: nigel4416
Topic: 8222 Message: 8222

Dear All
I have just bought a TS-820 at a rally. It was sold as "receiver working" but transmitter "not tried". I installed it into my shack and left it on receive with the "heater" on for 7 hours. When I tried the rig the transmitter works like a dream with 5/8 and 5/9 reports with a good audio and a healthy 100w out.
The problem I have with it exists on receive. When the rig is switched on from cold and the antenna connected to a dummy load I would expect the meter to read just above the zero mark. But instead it reads a quarter scale. As the unit warms up (10 minutes or so) the meter slowly moves downwards towards zero finishing up at about 1/8 scale (during this time the receiver sensitivity and audio noise level raises slightly). In addition if the RF GAIN control is turned fully anticlockwise so that the meter swings to full scale deflection and then quickly turned fully clockwise the meter drops straight away to zero but then creeps up to 1/8 scale (within a few seconds) with a reduction in receive sensitivity and noise level. I am not sure if this is a fault or if it is suppose to do this, can anyone please let me know? (the ALC switch when switched between slow, fast and off has no effect on the fault).If it is a fault can anyone please point me in the right direction to fault finding it.
Regards and 73
Nigel M1EQA

8223. Re: help with possible receive fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 20:06:03 UTC
From: stevehurstg8lik2003
Topic: 8222 Message: 8223

Nigel, my first ebay TS520SE exhibited somewhat similar symptoms-the S meter was reading around a third scale on all bands with no input. All it seems to have been is the RX signal level metering. Without searching for the handbook-on the very left rig under the top cover is a board with a couple of pots you may need to adjust. One is 'meter zero' and the other is RX signal strength meter sensitivity. Quite why mine were out I don't know but if yours is the same its dead easy to adjust.
Apologies I can't give you the pot numbers but these are in the handbooks.

73's

Steve G8LIK

8224. Re: [TS-520_820_530_830] Ebay TS520S item 9740908208

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 19:46:52 UTC
From: Bill Scurlock
Topic: 8221 Message: 8224

Yes, that's correct Steve. Anything you buy on eBay, you better be prepared to fix it - even if it is coming from another ham. Often they aren't even aware that something is wrong because they don't use all the features, bands, etc. Keep having fun with the 520.

73, Bill, K5GCW
----- Original Message -----
From: stevehurstg8lik2003
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, July 13, 2006 1:51 PM
Subject: [TS-520_820_530_830] Ebay TS520S item 9740908208

Bought this as was described as VGC and from someone with over 200 positive feedbacks (no negatives). However it was obvious the rig had been dropped on its back at some time before transit, top RH corner of the cover plate was crushed inwards and the rear chassis had a deformation where it had been bent after presumably landing on something hard on the 12VDC heatsink.
Certainly would decribe it as 'fair' not very good in view of marks, failing RHS leather carry handle. Also apparent that 28MHZ bands had been changed to CB,well I can live without that for £125 plus shipping of £23.And don't want to predudice my 100% feedback status hi!
Interesting fault-the stock microphone (not suppled) would not engage transmit though by selecting 'SEND' all OK. Internal examination showed a broken earth wire to the microphone socket from the chassis-cured with a dab of solder.
Anyway about the 4th contact was 3X2 (Republic of Guinea, West Africa) so seems a better buy now :) In any case you have to take the rough...with the smooth
Moral-can't always expect great things even from Ebayers with great scores....let the buyer beware.
Best 73's to all and its a great forum, have learnt a lot!

Cheers, Steve G8LIK

[Non-text portions of this message have been removed]

8225. TS 820S Restoration/ low receive help needed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 22:01:55 UTC
From: m_m_maxau
Topic: 8225 Message: 8225

G'day all

I have a TS820S that I am restoring.

I have had great help with parts from a great fellow here in Australia, which has been wonderful.

I have two problems that I can see:

1) The receive is low, close by signals are heard but it seems that the receiver is about 40 db down, any ideas where to look or what may be the problem?

2) The Speech processor does not work, when you pull the processor on the power output drops to almost zero. This sounds like a fairly easy fix but I just need an idea of where to look.

I really appreciate the help guys.

And to those who helped with the 520, thanks, it is now working 100% correctly. Thanks again guys !!!!

We are so lucky to have a great bunch of minds on this group to ask advice from.

73

Anthony
VK2FVIC
Sydney Australia

8226. Re: Ebay TS520S item 9740908208

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 22:06:31 UTC
From: m_m_maxau
Topic: 8221 Message: 8226

G'day Steve

I recently got a TS 820S here from a VK ham website.

The radio arrived with substantial damage and obviously had been dropped in Transit, even though the packaging was intact.

The moral to the story is that with the weight of these old radios (nearly 40 punds), they suffer substantial damage to the chassis/ external controls if they are dropped, even though they usually still function ok. So maybe it was dropped after being packed but the packaging simply does not exhibit overt signs of any damage?

Just a thought mate.

Anyway, enjoy the radio !!

73's from Sydney

Anthony

VK2FVIC

-- In TS-520_820_530_830@yahoogroups.com, "stevehurstg8lik2003" <stevehurstg8lik2003@...> wrote:
>
> Bought this as was described as VGC and from someone with over 200
> positive feedbacks (no negatives). However it was obvious the rig
> had been dropped on its back at some time before transit, top RH
> corner of the cover plate was crushed inwards and the rear chassis
> had a deformation where it had been bent after presumably landing
on
> something hard on the 12VDC heatsink.
> Certainly would decribe it as 'fair' not very good in view of
> marks, failing RHS leather carry handle. Also apparent that 28MHZ
> bands had been changed to CB,well I can live without that for £125
> plus shipping of £23.And don't want to predudice my 100% feedback
> status hi!
> Interesting fault-the stock microphone (not suppled) would not
> engage transmit though by selecting 'SEND' all OK. Internal
> examination showed a broken earth wire to the microphone socket
from
> the chassis-cured with a dab of solder.
> Anyway about the 4th contact was 3X2 (Republic of Guinea, West
> Africa) so seems a better buy now :) In any case you have to take
> the rough...with the smooth
> Moral-can't always expect great things even from Ebayers with

great
> scores....let the buyer beware.
> Best 73's to all and its a great forum, have learnt a lot!
>
>
> Cheers, Steve G8LIK
>

8227. Re: TS 820S Restoration/ low receive help needed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-13 23:33:03 UTC
From: Gordon
Topic: 8225 Message: 8227

Anthony,
For the receive problem, be sure that L8 on the coil board is not Shorted or open. Also, Be sure to check the connectors where the wires hook to the Coil board. Both 820's I have restored have had many BAD connections. Seems to be a common problem. Some of the connectors actually had bad terminals inside the connector , that were actually broken.
I'm not sure on the speech processor. Walt, N9WB is pretty good on those though.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau" <agoodridge@...> wrote:
>
> G'day all
>
> I have a TS820S that I am restoring.
>
> I have had great help with parts from a great fellow here in
> Australia, which has been wonderful.
>
> I have two problems that I can see:
>
> 1) The receive is low, close by signals are heard but it seems
> that the receiver is about 40 db down, any ideas where to look or
> what may be the problem?
>
> 2) The Speech processor does not work, when you pull the processor
> on the power output drops to almost zero. This sounds like a fairly
> easy fix but I just need an idea of where to look.
>
> I really appreciate the help guys.
>
> And to those who helped with the 520, thanks, it is now working 100%
> correctly. Thanks again guys !!!!
>
> We are so lucky to have a great bunch of minds on this group to ask
> advice from.
>
> 73
>
> Anthony
> VK2FVIC

> Sydney Australia
>

8228. Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-14 00:10:44 UTC
From: vk3bfa
Topic: 8228 Message: 8228

This one drove me mad for a few days....

Symptoms. Lousy audio quality, very harsh. CRO showed very short high amplitude spikes on signal.

Remedy: - tighten bolts holding down audio out transistors - had gone high resitance due age. Bolt heads are soldered to PCB, relying on presssure of nuts to make conatct with metal can.

Usual fault finding methodology didnt work in this case, ie disconnect input, noise dissapears. QED - noise SHOULD be external to amp. (Wrong in this case - red herring) Progressively disconnect signal chain, noise level reduces but still there.

Finally, took output of detector and fed to external audio amp - all ok. This isolates fault to audio board, and then was found ......

73 de VK3BFA.

8229. Re: [TS-520_820_530_830] Re: TS 820S Restoration/ low receive help needed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-14 02:17:42 UTC
From: agoodridge
Topic: 8225 Message: 8229

G'day Gordon

Thank you for the tips,

I appreciate the input, it is otherwise a really lovely old radio.

I will keep you posted.

73
Anthony
VK2FVIC
---- Gordon <n6wk@...> wrote:
> Anthony,
> For the receive problem, be sure that L8 on the coil board is not
> Shorted or open. Also, Be sure to check the connectors where the wires
> hook to the Coil board. Both 820's I have restored have had many BAD
> connections. Seems to be a common problem. Some of the connectors
> actually had bad terminals inside the connector , that were actually
> broken.
> I'm not sure on the speech processor. Walt, N9WB is pretty good on
> those though.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
> <agoodridge@...> wrote:
> >
> > G'day all
> >
> > I have a TS820S that I am restoring.
> >
> > I have had great help with parts from a great fellow here in
> > Australia, which has been wonderful.
> >
> > I have two problems that I can see:
> >
> > 1) The receive is low, close by signals are heard but it seems
> > that the receiver is about 40 db down, any ideas where to look or
> > what may be the problem?
> >
> > 2) The Speech processor does not work, when you pull the processor
> > on the power output drops to almost zero. This sounds like a fairly
> > easy fix but I just need an idea of where to look.
> >

> > I really appreciate the help guys.
> >
> > And to those who helped with the 520, thanks, it is now working 100%
> > correctly. Thanks again guys !!!!
> >
> > We are so lucky to have a great bunch of minds on this group to ask
> > advice from.
> >
> > 73
> >
> > Anthony
> > VK2FVIC
> > Sydney Australia
> >
>
>
>
>
>

8230. Re: [TS-520_820_530_830] help with possible receive fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-14 10:28:02 UTC
From: Walt Breining
Topic: 8222 Message: 8230

I have run into this with TS-820s that were in a slightly damp environment. If you wait for a while and turn it on often, the problem will go away. I have run into this with 3 820s and have never been able to resolve the problem other than moving them to a very dry environment. The 820 I currently use did this for 3 years in a less than perfect environment. I moved it to our county emergency management office. After about 2 weeks it quit doing this and has not done it again in 3 years.

If anybody figures this one out (Hay Bill K0ZL!) I am anxious to know.

Vy 73, Walt N9WB

----- Original Message -----
From: nigel4416
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, July 13, 2006 2:13 PM
Subject: [TS-520_820_530_830] help with possible receive fault

Dear All
I have just bought a TS-820 at a rally. It was sold as "receiver working" but transmitter "not tried". I installed it into my shack and left it on receive with the "heater" on for 7 hours. When I tried the rig the transmitter works like a dream with 5/8 and 5/9 reports with a good audio and a healthy 100w out.
The problem I have with it exists on receive. When the rig is switched on from cold and the antenna connected to a dummy load I would expect the meter to read just above the zero mark. But instead it reads a quarter scale. As the unit warms up (10 minutes or so) the meter slowly moves downwards towards zero finishing up at about 1/8 scale (during this time the receiver sensitivity and audio noise level raises slightly). In addition if the RF GAIN control is turned fully anticlockwise so that the meter swings to full scale deflection and then quickly turned fully clockwise the meter drops straight away to zero but then creeps up to 1/8 scale (within a few seconds) with a reduction in receive sensitivity and noise level. I am not sure if this is a fault or if it is suppose to do this, can anyone please let me know? (the ALC switch when switched between slow, fast and off has no effect on the fault).If it is a fault can anyone please point me in the right direction to fault finding it.
Regards and 73
Nigel M1EQA

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date: 7/13/06

[Non-text portions of this message have been removed]

8231. TS 820s DG! cover

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-14 13:25:55 UTC
From: w1ioo
Topic: 8231 Message: 8231

I have finished restoring a ts-820s and find it is missing the internal cover to the DG-1 cards. If anyone has one for sale please e-mail me off list.
W1ioo@...
TNX Wally

8233. using a transverter with a ts-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-14 13:21:24 UTC
From: dalepavlicek
Topic: 8233 Message: 8233

Looked thru old posts found a lot of questions ,but no answers. I would like to keep the kenwood all kenwood, first choice would be the TV-502 OR OTHER KENWOOD 2 METER TRANSVERTER? If that is not possible ,how about a tentec 2 meter transverter with the 830?
I don't want to reinvent the wheel,so If anyone has been able to use these or any other 2 meter transverter with the 830 ,please let me know what and how you did.
thanks to all for reading and any help on this.
thanks
dale wt4t

8234. Re: [TS-520_820_530_830] Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-14 22:40:00 UTC
From: agoodridge
Topic: 8228 Message: 8234

G'day mate

Sounds like a strange problem,

Have a listen to this one:

TS820S.

First issue: receive is fine on LSB and FSK, until you transmit, then the signal drops by about 40 db. Turn the radio power off, and the display comes on 100 plus kc higher than what you were transmitting on and the radio is still deaf, flick the band switch and the receive jumps into life and the frequency display is correct !!!

As soon as you key up, it goes deaf again and you have to repeat the process.

Second issue. On every other mode than LSB and FSK, the vfo does not change the display frequency and on 10 meters display is 290000 mhz, same on 21 mhz (290000), on the other bands same thing 7 mhz show 90000, as does three megs and.

Very, very strange don't you think

And I am trying to fix this thing, I only just bought it as a restore/parts job !

&3's
Anthony

----- Original Message -----
From: vk3bfa
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, July 14, 2006 10:10 AM
Subject: [TS-520_820_530_830] Interesting ts520 audio fault

This one drove me mad for a few days....

Symptoms. Lousy audio quality, very harsh. CRO showed very short high amplitude spikes on signal.

Remedy: - tighten bolts holding down audio out transistors - had gone high resitance due age. Bolt heads are soldered to PCB, relying on presssure of nuts to make conatct with metal can.

Usual fault finding methodology didnt work in this case, ie disconnect input, noise dissapears. QED - noise SHOULD be external to amp. (Wrong in this case - red herring) Progressively disconnect signal chain, noise level reduces but still there.

Finally, took output of detector and fed to external audio amp - all ok. This isolates fault to audio board, and then was found ......

73 de VK3BFA.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date: 13/07/2006

[Non-text portions of this message have been removed]

8235. Re: Ebay TS520S item 9740908208

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 00:38:19 UTC
From: norman_y
Topic: 8221 Message: 8235

Steve,

I don't know who shipped your radio, but I would not be too quick to assume the radio was damaged before transit. Shippers just don't treat these old radios very well. Several years ago, I bought a pair of Kenwood twins (R & T 599D)at a hamfest from a reputable dealer. When I got them home, there was a minor problem with the transmit on one of the upper bands. I emailed the dealer, and he said to ship it back to him. I packed it well, and double boxed it.

I shipped it back via UPS and he emailed me a couple of days later to say the radio was fixed and being returned via UPS. It was also double boxed on return. When I got it back, the transmitter did not sit level, and on closer examination, I saw that the fan housing had been pushed part way into the back of the radio. Needless to say, nothing worked.

The good news was that the radio was insured by the dealer, and after UPS telling him that it had not been packed properly, etc., they finally paid up. I have seen that dealer several times since, and we both refer to that one as the radio from hell.

More good news was that I took the money from the refund and bought my TS 520 from a ham on QRP-L who lived a couple of hundred miles away. He did not ship it... we met halfway to close the deal. :)

73,
Norman
KA4PUV

--- In TS-520_820_530_830@yahoogroups.com, "stevehurstg8lik2003" <stevehurstg8lik2003@...> wrote:
>
> Bought this as was described as VGC and from someone with over 200
> positive feedbacks (no negatives). However it was obvious the rig
> had been dropped on its back at some time before transit, top RH
> corner of the cover plate was crushed inwards and the rear chassis
> had a deformation where it had been bent after presumably landing on
> something hard on the 12VDC heatsink.
> Certainly would decribe it as 'fair' not very good in view of
> marks, failing RHS leather carry handle. Also apparent that 28MHZ
> bands had been changed to CB,well I can live without that for £125
> plus shipping of £23.And don't want to predudice my 100% feedback
> status hi!
> Interesting fault-the stock microphone (not suppled) would not
> engage transmit though by selecting 'SEND' all OK. Internal

> examination showed a broken earth wire to the microphone socket from
> the chassis-cured with a dab of solder.
> Anyway about the 4th contact was 3X2 (Republic of Guinea, West
> Africa) so seems a better buy now :) In any case you have to take
> the rough...with the smooth
> Moral-can't always expect great things even from Ebayers with great
> scores....let the buyer beware.
> Best 73's to all and its a great forum, have learnt a lot!
>
>
> Cheers, Steve G8LIK
>

8236. Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 00:46:51 UTC
From: Gordon
Topic: 8228 Message: 8236

Anthony,
Sure sounds like you have a BAND SWITCH problem. Might even be
inside the Final cage, But I will BET it is a Bandswitch problem
Only other thing that possibly comes to mind is some bad grounding,
but that is easily fixed by backing all the Board screws off half a
turn and then retightening them.
Clean the COMPLETE bandswitch and retighten the ground/mounting Screws
and let us know how it turns out.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
<agoodridge@...> wrote:
>
> G'day mate
>
> Sounds like a strange problem,
>
> Have a listen to this one:
>
> TS820S.
>
> First issue: receive is fine on LSB and FSK, until you transmit,
then the signal drops by about 40 db. Turn the radio power off, and
the display comes on 100 plus kc higher than what you were
transmitting on and the radio is still deaf, flick the band switch and
the receive jumps into life and the frequency display is correct !!!
>
> As soon as you key up, it goes deaf again and you have to repeat the
process.
>
> Second issue. On every other mode than LSB and FSK, the vfo does not
change the display frequency and on 10 meters display is 290000 mhz,
same on 21 mhz (290000), on the other bands same thing 7 mhz show
90000, as does three megs and.
>
> Very, very strange don't you think
>
> And I am trying to fix this thing, I only just bought it as a
restore/parts job !
>
> &3's
> Anthony
>
>

> ----- Original Message -----
> From: vk3bfa
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, July 14, 2006 10:10 AM
> Subject: [TS-520_820_530_830] Interesting ts520 audio fault
>
>
> This one drove me mad for a few days....
>
> Symptoms. Lousy audio quality, very harsh. CRO showed very short high
> amplitude spikes on signal.
>
> Remedy: - tighten bolts holding down audio out transistors - had gone
> high resitance due age. Bolt heads are soldered to PCB, relying on
> presssure of nuts to make conatct with metal can.
>
> Usual fault finding methodology didnt work in this case, ie disconnect
> input, noise dissapears. QED - noise SHOULD be external to amp. (Wrong
> in this case - red herring) Progressively disconnect signal chain,
> noise level reduces but still there.
>
> Finally, took output of detector and fed to external audio amp - all
> ok. This isolates fault to audio board, and then was found ......
>
> 73 de VK3BFA.
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
13/07/2006
>
>
> [Non-text portions of this message have been removed]
>

8237. Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 00:54:15 UTC
From: Gordon
Topic: 8228 Message: 8237

Anthony,
WAIT. I just remembered a similar Problem. Turned out it was the
BAD terminals inside the Connectors that went to the RELAY board. The
terminals inside the Connector had lost their "SPRING" and were
Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
to find it..

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Anthony,
> Sure sounds like you have a BAND SWITCH problem. Might even be
> inside the Final cage, But I will BET it is a Bandswitch problem
> Only other thing that possibly comes to mind is some bad grounding,
> but that is easily fixed by backing all the Board screws off half a
> turn and then retightening them.
> Clean the COMPLETE bandswitch and retighten the ground/mounting Screws
> and let us know how it turns out.
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
> <agoodridge@> wrote:
> >
> > G'day mate
> >
> > Sounds like a strange problem,
> >
> > Have a listen to this one:
> >
> > TS820S.
> >
> > First issue: receive is fine on LSB and FSK, until you transmit,
> then the signal drops by about 40 db. Turn the radio power off, and
> the display comes on 100 plus kc higher than what you were
> transmitting on and the radio is still deaf, flick the band switch and
> the receive jumps into life and the frequency display is correct !!!
> >
> > As soon as you key up, it goes deaf again and you have to repeat the
> process.
> >
> > Second issue. On every other mode than LSB and FSK, the vfo does not
> change the display frequency and on 10 meters display is 290000 mhz,

> same on 21 mhz (290000), on the other bands same thing 7 mhz show
> 90000, as does three megs and.
> >
> > Very, very strange don't you think
> >
> > And I am trying to fix this thing, I only just bought it as a
> restore/parts job !
> >
> > &3's
> > Anthony
> >
> >
> > ----- Original Message -----
> > From: vk3bfa
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, July 14, 2006 10:10 AM
> > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> >
> >
> > This one drove me mad for a few days....
> >
> > Symptoms. Lousy audio quality, very harsh. CRO showed very short
high
> > amplitude spikes on signal.
> >
> > Remedy: - tighten bolts holding down audio out transistors - had
gone
> > high resitance due age. Bolt heads are soldered to PCB, relying on
> > presssure of nuts to make conatct with metal can.
> >
> > Usual fault finding methodology didnt work in this case, ie
disconnect
> > input, noise dissapears. QED - noise SHOULD be external to amp.
(Wrong
> > in this case - red herring) Progressively disconnect signal chain,
> > noise level reduces but still there.
> >
> > Finally, took output of detector and fed to external audio amp - all
> > ok. This isolates fault to audio board, and then was found ......
> >
> > 73 de VK3BFA.
> >
> >
> >
> >
> >
> >
> >
> >
>

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> 13/07/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

8238. Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 01:35:04 UTC
From: agoodridge
Topic: 8228 Message: 8238

G'day Gordon

Thanks mate

I will check that out.

I also think the radio may have a power supply problem as well, but I will check it all out when I get some time.

Thanks again mate.

Regards
Anthony
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 15, 2006 10:54 AM
Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Anthony,
WAIT. I just remembered a similar Problem. Turned out it was the
BAD terminals inside the Connectors that went to the RELAY board. The
terminals inside the Connector had lost their "SPRING" and were
Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
to find it..

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Anthony,
> Sure sounds like you have a BAND SWITCH problem. Might even be
> inside the Final cage, But I will BET it is a Bandswitch problem
> Only other thing that possibly comes to mind is some bad grounding,
> but that is easily fixed by backing all the Board screws off half a
> turn and then retightening them.
> Clean the COMPLETE bandswitch and retighten the ground/mounting Screws
> and let us know how it turns out.
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
> <agoodridge@> wrote:
> >
> > G'day mate
> >

> > Sounds like a strange problem,
> >
> > Have a listen to this one:
> >
> > TS820S.
> >
> > First issue: receive is fine on LSB and FSK, until you transmit,
> then the signal drops by about 40 db. Turn the radio power off, and
> the display comes on 100 plus kc higher than what you were
> transmitting on and the radio is still deaf, flick the band switch and
> the receive jumps into life and the frequency display is correct !!!
> >
> > As soon as you key up, it goes deaf again and you have to repeat the
> process.
> >
> > Second issue. On every other mode than LSB and FSK, the vfo does not
> change the display frequency and on 10 meters display is 290000 mhz,
> same on 21 mhz (290000), on the other bands same thing 7 mhz show
> 90000, as does three megs and.
> >
> > Very, very strange don't you think
> >
> > And I am trying to fix this thing, I only just bought it as a
> restore/parts job !
> >
> > &3's
> > Anthony
> >
> >
> > ----- Original Message -----
> > From: vk3bfa
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, July 14, 2006 10:10 AM
> > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> >
> >
> > This one drove me mad for a few days....
> >
> > Symptoms. Lousy audio quality, very harsh. CRO showed very short
high
> > amplitude spikes on signal.
> >
> > Remedy: - tighten bolts holding down audio out transistors - had
gone
> > high resitance due age. Bolt heads are soldered to PCB, relying on
> > presssure of nuts to make conatct with metal can.
> >
> > Usual fault finding methodology didnt work in this case, ie
disconnect
> > input, noise dissapears. QED - noise SHOULD be external to amp.

(Wrong
> > in this case - red herring) Progressively disconnect signal chain,
> > noise level reduces but still there.
> >
> > Finally, took output of detector and fed to external audio amp - all
> > ok. This isolates fault to audio board, and then was found ......
> >
> > 73 de VK3BFA.
> >
> >
> >
> >
> >
> >
> >
>

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> 13/07/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 14/07/2006

[Non-text portions of this message have been removed]

8239. Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 02:28:56 UTC
From: Charles Mortimer
Topic: 8228 Message: 8239

Anthony
Charles here
if its like Gordon says those rotten terminal connectors I have some
only 3000 miles away in the west w.a. that's if you still have my e-mail
they do loose contact what I usually do is remove the terminal connector
from the block ((TRICKY)) and re set the tension (providing I have red
Gordon fix correctly)
Charles vk6ycj

----- Original Message -----
From: "agoodridge" <agoodridge@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, July 15, 2006 9:35 AM
Subject: Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault

> G'day Gordon
>
> Thanks mate
>
> I will check that out.
>
> I also think the radio may have a power supply problem as well, but I will
> check it all out when I get some time.
>
> Thanks again mate.
>
> Regards
> Anthony
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, July 15, 2006 10:54 AM
> Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault
>
>
> Anthony,
> WAIT. I just remembered a similar Problem. Turned out it was the
> BAD terminals inside the Connectors that went to the RELAY board. The
> terminals inside the Connector had lost their "SPRING" and were
> Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
> to find it..
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:

> >
> > Anthony,
> > Sure sounds like you have a BAND SWITCH problem. Might even be
> > inside the Final cage, But I will BET it is a Bandswitch problem
> > Only other thing that possibly comes to mind is some bad grounding,
> > but that is easily fixed by backing all the Board screws off half a
> > turn and then retightening them.
> > Clean the COMPLETE bandswitch and retighten the ground/mounting Screws
> > and let us know how it turns out.
> > 73,
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
> > <agoodridge@> wrote:
> > >
> > > G'day mate
> > >
> > > Sounds like a strange problem,
> > >
> > > Have a listen to this one:
> > >
> > > TS820S.
> > >
> > > First issue: receive is fine on LSB and FSK, until you transmit,
> > then the signal drops by about 40 db. Turn the radio power off, and
> > the display comes on 100 plus kc higher than what you were
> > transmitting on and the radio is still deaf, flick the band switch and
> > the receive jumps into life and the frequency display is correct !!!
> > >
> > > As soon as you key up, it goes deaf again and you have to repeat the
> > process.
> > >
> > > Second issue. On every other mode than LSB and FSK, the vfo does not
> > change the display frequency and on 10 meters display is 290000 mhz,
> > same on 21 mhz (290000), on the other bands same thing 7 mhz show
> > 90000, as does three megs and.
> > >
> > > Very, very strange don't you think
> > >
> > > And I am trying to fix this thing, I only just bought it as a
> > restore/parts job !
> > >
> > > &3's
> > > Anthony
> > >
> > >
> > > ----- Original Message -----
> > > From: vk3bfa
> > > To: TS-520_820_530_830@yahoogroups.com

> > > Sent: Friday, July 14, 2006 10:10 AM
> > > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> > >
> > >
> > > This one drove me mad for a few days....
> > >
> > > Symptoms. Lousy audio quality, very harsh. CRO showed very short
> high
> > > amplitude spikes on signal.
> > >
> > > Remedy: - tighten bolts holding down audio out transistors - had
> gone
> > > high resitance due age. Bolt heads are soldered to PCB, relying on
> > > presssure of nuts to make conatct with metal can.
> > >
> > > Usual fault finding methodology didnt work in this case, ie
> disconnect
> > > input, noise dissapears. QED - noise SHOULD be external to amp.
> (Wrong
> > > in this case - red herring) Progressively disconnect signal chain,
> > > noise level reduces but still there.
> > >
> > > Finally, took output of detector and fed to external audio amp - all
> > > ok. This isolates fault to audio board, and then was found ......
> > >
> > > 73 de VK3BFA.
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> --
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> > 13/07/2006
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>

>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
> 14/07/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8240. Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 02:45:35 UTC
From: Gordon
Topic: 8228 Message: 8240

Hi Anthony,
May I ask why you think you may have a Power Supply problem?
I might add that "EVERY" TS-820 I have worked on, needed the Diodes
resoldered on the Rectifier Board.. May be worth a Look on your as well !
G'Day Mate !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
<agoodridge@...> wrote:
>
> G'day Gordon
>
> Thanks mate
>
> I will check that out.
>
> I also think the radio may have a power supply problem as well, but
I will check it all out when I get some time.
>
> Thanks again mate.
>
> Regards
> Anthony
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, July 15, 2006 10:54 AM
> Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault
>
>
> Anthony,
> WAIT. I just remembered a similar Problem. Turned out it was the
> BAD terminals inside the Connectors that went to the RELAY board. The
> terminals inside the Connector had lost their "SPRING" and were
> Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
> to find it..
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Anthony,
> > Sure sounds like you have a BAND SWITCH problem. Might even be

> > inside the Final cage, But I will BET it is a Bandswitch problem
> > Only other thing that possibly comes to mind is some bad grounding,
> > but that is easily fixed by backing all the Board screws off half a
> > turn and then retightening them.
> > Clean the COMPLETE bandswitch and retighten the ground/mounting
Screws
> > and let us know how it turns out.
> > 73,
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@...m, "agoodridge"
> > <agoodridge@> wrote:
> > >
> > > G'day mate
> > >
> > > Sounds like a strange problem,
> > >
> > > Have a listen to this one:
> > >
> > > TS820S.
> > >
> > > First issue: receive is fine on LSB and FSK, until you transmit,
> > then the signal drops by about 40 db. Turn the radio power off, and
> > the display comes on 100 plus kc higher than what you were
> > transmitting on and the radio is still deaf, flick the band
switch and
> > the receive jumps into life and the frequency display is correct !!!
> > >
> > > As soon as you key up, it goes deaf again and you have to
repeat the
> > process.
> > >
> > > Second issue. On every other mode than LSB and FSK, the vfo
does not
> > change the display frequency and on 10 meters display is 290000 mhz,
> > same on 21 mhz (290000), on the other bands same thing 7 mhz show
> > 90000, as does three megs and.
> > >
> > > Very, very strange don't you think
> > >
> > > And I am trying to fix this thing, I only just bought it as a
> > restore/parts job !
> > >
> > > &3's
> > > Anthony
> > >
> > >
> > > ----- Original Message -----
> > > From: vk3bfa

> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Friday, July 14, 2006 10:10 AM
> > > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> > >
> > >
> > > This one drove me mad for a few days....
> > >
> > > Symptoms. Lousy audio quality, very harsh. CRO showed very short
> high
> > > amplitude spikes on signal.
> > >
> > > Remedy: - tighten bolts holding down audio out transistors - had
> gone
> > > high resitance due age. Bolt heads are soldered to PCB, relying on
> > > presssure of nuts to make conatct with metal can.
> > >
> > > Usual fault finding methodology didnt work in this case, ie
> disconnect
> > > input, noise dissapears. QED - noise SHOULD be external to amp.
> (Wrong
> > > in this case - red herring) Progressively disconnect signal chain,
> > > noise level reduces but still there.
> > >
> > > Finally, took output of detector and fed to external audio amp
> - all
> > > ok. This isolates fault to audio board, and then was found ......
> > >
> > > 73 de VK3BFA.
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> --
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> > 13/07/2006
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>

>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
14/07/2006
>
>
> [Non-text portions of this message have been removed]
>

8241. Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 02:52:25 UTC
From: Gordon
Topic: 8228 Message: 8241

Hi Charles,
Yes you read it correctly except for the fact that sometimes, the terminals are BROKEN, thus nothing left to reset the tension on. I found about 8 broken on one rig alone. The clue was, if I wiggled the wire while the rig was on, I could get things to change on receive.. So I took the connectors apart (as you say, TRICKY) and found they came out in 2 pieces... Had to Replace the terminals.. Luckily, they are easy to come by here in the States.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer" <mortimer@...> wrote:
>
> Anthony
> Charles here
> if its like Gordon says those rotten terminal connectors I have some
> only 3000 miles away in the west w.a. that's if you still have my e-mail
> they do loose contact what I usually do is remove the terminal connector
> from the block ((TRICKY)) and re set the tension (providing I have red
> Gordon fix correctly)
> Charles vk6ycj
>
>
> ----- Original Message -----
> From: "agoodridge" <agoodridge@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, July 15, 2006 9:35 AM
> Subject: Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault
>
>
> > G'day Gordon
> >
> > Thanks mate
> >
> > I will check that out.
> >
> > I also think the radio may have a power supply problem as well, but I will
> > check it all out when I get some time.
> >

> > Thanks again mate.
> >
> > Regards
> > Anthony
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, July 15, 2006 10:54 AM
> > Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault
> >
> >
> > Anthony,
> > WAIT. I just remembered a similar Problem. Turned out it was the
> > BAD terminals inside the Connectors that went to the RELAY board. The
> > terminals inside the Connector had lost their "SPRING" and were
> > Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
> > to find it..
> >
> > Gordon
> > N6WK
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Anthony,
> > > Sure sounds like you have a BAND SWITCH problem. Might even be
> > > inside the Final cage, But I will BET it is a Bandswitch problem
> > > Only other thing that possibly comes to mind is some bad grounding,
> > > but that is easily fixed by backing all the Board screws off half a
> > > turn and then retightening them.
> > > Clean the COMPLETE bandswitch and retighten the ground/mounting
Screws
> > > and let us know how it turns out.
> > > 73,
> > > Gordon
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
> > > <agoodridge@> wrote:
> > > >
> > > > G'day mate
> > > >
> > > > Sounds like a strange problem,
> > > >
> > > > Have a listen to this one:
> > > >
> > > > TS820S.
> > > >
> > > > First issue: receive is fine on LSB and FSK, until you transmit,
> > > then the signal drops by about 40 db. Turn the radio power off, and
> > > the display comes on 100 plus kc higher than what you were
> > > transmitting on and the radio is still deaf, flick the band

switch and
> > > the receive jumps into life and the frequency display is
correct !!!
> > > >
> > > > As soon as you key up, it goes deaf again and you have to
repeat the
> > > process.
> > > >
> > > > Second issue. On every other mode than LSB and FSK, the vfo
does not
> > > change the display frequency and on 10 meters display is 290000
mhz,
> > > same on 21 mhz (290000), on the other bands same thing 7 mhz show
> > > 90000, as does three megs and.
> > > >
> > > > Very, very strange don't you think
> > > >
> > > > And I am trying to fix this thing, I only just bought it as a
> > > restore/parts job !
> > > >
> > > > &3's
> > > > Anthony
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: vk3bfa
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Friday, July 14, 2006 10:10 AM
> > > > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> > > >
> > > >
> > > > This one drove me mad for a few days....
> > > >
> > > > Symptoms. Lousy audio quality, very harsh. CRO showed very short
> > high
> > > > amplitude spikes on signal.
> > > >
> > > > Remedy: - tighten bolts holding down audio out transistors - had
> > gone
> > > > high resitance due age. Bolt heads are soldered to PCB,
relying on
> > > > presssure of nuts to make conatct with metal can.
> > > >
> > > > Usual fault finding methodology didnt work in this case, ie
> > disconnect
> > > > input, noise dissapears. QED - noise SHOULD be external to amp.
> > (Wrong
> > > > in this case - red herring) Progressively disconnect signal
chain,
> > > > noise level reduces but still there.

> > > >
> > > > Finally, took output of detector and fed to external audio
amp - all
> > > > ok. This isolates fault to audio board, and then was found ......
> > > >
> > > > 73 de VK3BFA.
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > --
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> > > 13/07/2006
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
> >
> >
> >
> >
> >
> >

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
> > 14/07/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >

> >
> >
> >
> >
> >
> >
>

8242. Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 04:10:43 UTC
From: Charles Mortimer
Topic: 8228 Message: 8242

hallo Gordon
Charles returning
you are right there difficult to get here I broke one 820 down to get
spares personally I think it is a human problem (pushing and pulling
these connectors they were only made to go together once at the factory
and all old ladies like these wonderful radios need tender loving care all
our bones get brittle ....thin brass does get brittle with age develops
stress cracks and they are minute so please gentle men treat them
gently when pulling and tugging and re connecting
Charles and rusty
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, July 15, 2006 10:52 AM
Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault

> Hi Charles,
> Yes you read it correctly except for the fact that sometimes, the
> terminals are BROKEN, thus nothing left to reset the tension on. I
> found about 8 broken on one rig alone. The clue was, if I wiggled the
> wire while the rig was on, I could get things to change on receive..
> So I took the connectors apart (as you say, TRICKY) and found they
> came out in 2 pieces... Had to Replace the terminals.. Luckily, they
> are easy to come by here in the States.
>
> Gordon
> N6WK
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Charles Mortimer"
> <mortimer@...> wrote:
>>
>> Anthony
>> Charles here
>> if its like Gordon says those rotten terminal connectors I have some
>> only 3000 miles away in the west w.a. that's if you still have my
> e-mail
>> they do loose contact what I usually do is remove the terminal
> connector
>> from the block ((TRICKY)) and re set the tension (providing I
> have red
>> Gordon fix correctly)
>> Charles vk6ycj
>>
>>

>> ----- Original Message -----
>> From: "agoodridge" <agoodridge@...>
>> To: <TS-520_820_530_830@yahoogroups.com>
>> Sent: Saturday, July 15, 2006 9:35 AM
>> Subject: Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault
>>
>>
>> > G'day Gordon
>> >
>> > Thanks mate
>> >
>> > I will check that out.
>> >
>> > I also think the radio may have a power supply problem as well,
> but I will
>> > check it all out when I get some time.
>> >
>> > Thanks again mate.
>> >
>> > Regards
>> > Anthony
>> > ----- Original Message -----
>> > From: Gordon
>> > To: TS-520_820_530_830@yahoogroups.com
>> > Sent: Saturday, July 15, 2006 10:54 AM
>> > Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault
>> >
>> >
>> > Anthony,
>> > WAIT. I just remembered a similar Problem. Turned out it was the
>> > BAD terminals inside the Connectors that went to the RELAY board. The
>> > terminals inside the Connector had lost their "SPRING" and were
>> > Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
>> > to find it..
>> >
>> > Gordon
>> > N6WK
>> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
>> > >
>> > > Anthony,
>> > > Sure sounds like you have a BAND SWITCH problem. Might even be
>> > > inside the Final cage, But I will BET it is a Bandswitch problem
>> > > Only other thing that possibly comes to mind is some bad grounding,
>> > > but that is easily fixed by backing all the Board screws off half a
>> > > turn and then retightening them.
>> > > Clean the COMPLETE bandswitch and retighten the ground/mounting
> Screws
>> > > and let us know how it turns out.
>> > > 73,
>> > > Gordon

>> > >
>> > >
>> > > --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
>> > > <agoodridge@> wrote:
>> > > >
>> > > > G'day mate
>> > > >
>> > > > Sounds like a strange problem,
>> > > >
>> > > > Have a listen to this one:
>> > > >
>> > > > TS820S.
>> > > >
>> > > > First issue: receive is fine on LSB and FSK, until you transmit,
>> > > then the signal drops by about 40 db. Turn the radio power off, and
>> > > the display comes on 100 plus kc higher than what you were
>> > > transmitting on and the radio is still deaf, flick the band
> switch and
>> > > the receive jumps into life and the frequency display is
> correct !!!
>> > > >
>> > > > As soon as you key up, it goes deaf again and you have to
> repeat the
>> > > process.
>> > > >
>> > > > Second issue. On every other mode than LSB and FSK, the vfo
> does not
>> > > change the display frequency and on 10 meters display is 290000
> mhz,
>> > > same on 21 mhz (290000), on the other bands same thing 7 mhz show
>> > > 90000, as does three megs and.
>> > > >
>> > > > Very, very strange don't you think
>> > > >
>> > > > And I am trying to fix this thing, I only just bought it as a
>> > > restore/parts job !
>> > > >
>> > > > &3's
>> > > > Anthony
>> > > >
>> > > >
>> > > > ----- Original Message -----
>> > > > From: vk3bfa
>> > > > To: TS-520_820_530_830@yahoogroups.com
>> > > > Sent: Friday, July 14, 2006 10:10 AM
>> > > > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
>> > > >
>> > > >
>> > > > This one drove me mad for a few days....
>> > > >

>> > > > Symptoms. Lousy audio quality, very harsh. CRO showed very short
>> > high
>> > > > amplitude spikes on signal.
>> > > >
>> > > > Remedy: - tighten bolts holding down audio out transistors - had
>> > gone
>> > > > high resitance due age. Bolt heads are soldered to PCB,
> relying on
>> > > > presssure of nuts to make conatct with metal can.
>> > > >
>> > > > Usual fault finding methodology didnt work in this case, ie
>> > disconnect
>> > > > input, noise dissapears. QED - noise SHOULD be external to amp.
>> > (Wrong
>> > > > in this case - red herring) Progressively disconnect signal
> chain,
>> > > > noise level reduces but still there.
>> > > >
>> > > > Finally, took output of detector and fed to external audio
> amp - all
>> > > > ok. This isolates fault to audio board, and then was found ......
>> > > >
>> > > > 73 de VK3BFA.
>> > > >
>> > > >
>> > > >
>> > > >
>> > > >
>> > > >
>> > > >
>> > >
>> > --
>> > > >
>> > > >
>> > > > No virus found in this incoming message.
>> > > > Checked by AVG Free Edition.
>> > > > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
>> > > 13/07/2006
>> > > >
>> > > >
>> > > > [Non-text portions of this message have been removed]
>> > > >
>> > >
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>> >

> --
>> >
>> >
>> > No virus found in this incoming message.
>> > Checked by AVG Free Edition.
>> > Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
>> > 14/07/2006
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8243. Re: [TS-520_820_530_830] Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 04:57:07 UTC
From: Bill Leahy
Topic: 8228 Message: 8243

Well done!

Please log in to the group and take a look at Databases/Fixes, I made
the entry there for you.

73,

Bill K0ZL

On 7/13/06, vk3bfa <woofferau@...> wrote:

> This one drove me mad for a few days....
>
> Symptoms. Lousy audio quality, very harsh. CRO showed very short high
> amplitude spikes on signal.
>
> Remedy: - tighten bolts holding down audio out transistors - had gone
> high resitance due age. Bolt heads are soldered to PCB, relying on
> presssure of nuts to make conatct with metal can.
>
> Usual fault finding methodology didnt work in this case, ie disconnect
> input, noise dissapears. QED - noise SHOULD be external to amp. (Wrong
> in this case - red herring) Progressively disconnect signal chain,
> noise level reduces but still there.
>
> Finally, took output of detector and fed to external audio amp - all
> ok. This isolates fault to audio board, and then was found ......
>
> 73 de VK3BFA.
>
>

8244. Re: [TS-520_820_530_830] using a transverter with a ts-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 05:08:46 UTC
From: Bill Leahy
Topic: 8233 Message: 8244

Your primary concern is to keep the rig from blowing the transverter!

I set up an 830 for a guy, using the SG switch; instead of turning the finals clear off, I found a voltage value that would let the rig transmit at 5-8 watts, just perfect for the TenTec transverter.

bill

On 7/14/06, dalepavlicek <yash@...> wrote:
>
> Looked thru old posts found a lot of questions ,but no answers. I
> would like to keep the kenwood all kenwood, first choice would be the
> TV-502 OR OTHER KENWOOD 2 METER TRANSVERTER? If that is not possible
> ,how about a tentec 2 meter transverter with the 830?
> I don't want to reinvent the wheel,so If anyone has been able to use
> these or any other 2 meter transverter with the 830 ,please let me
> know what and how you did.
> thanks to all for reading and any help on this.
> thanks
> dale wt4t
>
>
>

[Non-text portions of this message have been removed]

8245. Re: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 10:13:23 UTC
From: agoodridge
Topic: 8228 Message: 8245

G'day Gordon

Mate, I resoldered one of the large capacitors last night as it was arching !

The reason that I think the Power supply is a problem is that the power output is quite low, about 5 or 10 watts on ssb and when listening through another radio I can hear "warble" on the kenwood audio (frequency wobble).

Maybe it is another issue, but otherwise it is a nice clean old 820S, the digital readout is perfect (believe it or not).

Just the thing to keep me occupied !!

Thanks again mate for the help.

73

Anthony
VK2FVIC
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 15, 2006 12:45 PM
Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Hi Anthony,
May I ask why you think you may have a Power Supply problem?
I might add that "EVERY" TS-820 I have worked on, needed the Diodes
resoldered on the Rectifier Board.. May be worth a Look on your as well !
G'Day Mate !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
<agoodridge@...> wrote:
>
> G'day Gordon
>
> Thanks mate
>
> I will check that out.
>
> I also think the radio may have a power supply problem as well, but
I will check it all out when I get some time.
>
> Thanks again mate.

>
> Regards
> Anthony
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, July 15, 2006 10:54 AM
> Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault
>
>
> Anthony,
> WAIT. I just remembered a similar Problem. Turned out it was the
> BAD terminals inside the Connectors that went to the RELAY board. The
> terminals inside the Connector had lost their "SPRING" and were
> Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
> to find it..
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Anthony,
> > Sure sounds like you have a BAND SWITCH problem. Might even be
> > inside the Final cage, But I will BET it is a Bandswitch problem
> > Only other thing that possibly comes to mind is some bad grounding,
> > but that is easily fixed by backing all the Board screws off half a
> > turn and then retightening them.
> > Clean the COMPLETE bandswitch and retighten the ground/mounting
Screws
> > and let us know how it turns out.
> > 73,
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
> > <agoodridge@> wrote:
> > >
> > > G'day mate
> > >
> > > Sounds like a strange problem,
> > >
> > > Have a listen to this one:
> > >
> > > TS820S.
> > >
> > > First issue: receive is fine on LSB and FSK, until you transmit,
> > then the signal drops by about 40 db. Turn the radio power off, and
> > the display comes on 100 plus kc higher than what you were
> > transmitting on and the radio is still deaf, flick the band
switch and

> > the receive jumps into life and the frequency display is correct !!!
> > >
> > > As soon as you key up, it goes deaf again and you have to
repeat the
> > process.
> > >
> > > Second issue. On every other mode than LSB and FSK, the vfo
does not
> > change the display frequency and on 10 meters display is 290000 mhz,
> > same on 21 mhz (290000), on the other bands same thing 7 mhz show
> > 90000, as does three megs and.
> > >
> > > Very, very strange don't you think
> > >
> > > And I am trying to fix this thing, I only just bought it as a
> > restore/parts job !
> > >
> > > &3's
> > > Anthony
> > >
> > >
> > > ----- Original Message -----
> > > From: vk3bfa
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Friday, July 14, 2006 10:10 AM
> > > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> > >
> > >
> > > This one drove me mad for a few days....
> > >
> > > Symptoms. Lousy audio quality, very harsh. CRO showed very short
> high
> > > amplitude spikes on signal.
> > >
> > > Remedy: - tighten bolts holding down audio out transistors - had
> gone
> > > high resitance due age. Bolt heads are soldered to PCB, relying on
> > > presssure of nuts to make conatct with metal can.
> > >
> > > Usual fault finding methodology didnt work in this case, ie
> disconnect
> > > input, noise dissapears. QED - noise SHOULD be external to amp.
> (Wrong
> > > in this case - red herring) Progressively disconnect signal chain,
> > > noise level reduces but still there.
> > >
> > > Finally, took output of detector and fed to external audio amp
- all
> > > ok. This isolates fault to audio board, and then was found ......
> > >

> > > 73 de VK3BFA.
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> --
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> > 13/07/2006
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
14/07/2006
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 14/07/2006

[Non-text portions of this message have been removed]

8246. [TS-520_820_530_830] Re: 820s problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 12:08:31 UTC
From: Walt Breining
Topic: 8246 Message: 8246

Anthony:
After you check out everything else, carefully remove the VCO board and the PD board. Use a magnifying glass and look over the solder connections on the bottom of these boards. Be very thorough. Some solder connections may look cracked around the component leads. Be sure to check where the connection pins solder to these boards. CAREFULLY re-solder any bad looking connections.

Do not attempt this unless you are good at soldering. Use a low watt iron and good solder. Guard against solder bridges as these can cause permanent damage if the board is activated with a solder bridge.

Clean the test switch and all connection pins with De-oxit.

I recommend that you mess with these boards only after you have considered all other possibilities.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, July 14, 2006 7:54 PM
Subject: [TS-520_820_530_830] Re: Interesting ts520 audio fault

Anthony,
WAIT. I just remembered a similar Problem. Turned out it was the
BAD terminals inside the Connectors that went to the RELAY board. The
terminals inside the Connector had lost their "SPRING" and were
Broken. Don't know HOW I forgot that, as I pulled my Hair out tryinmg
to find it..

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Anthony,
> Sure sounds like you have a BAND SWITCH problem. Might even be
> inside the Final cage, But I will BET it is a Bandswitch problem
> Only other thing that possibly comes to mind is some bad grounding,
> but that is easily fixed by backing all the Board screws off half a
> turn and then retightening them.
> Clean the COMPLETE bandswitch and retighten the ground/mounting Screws
> and let us know how it turns out.
> 73,
> Gordon
>
>

> --- In TS-520_820_530_830@yahoogroups.com, "agoodridge"
> <agoodridge@> wrote:
> >
> > G'day mate
> >
> > Sounds like a strange problem,
> >
> > Have a listen to this one:
> >
> > TS820S.
> >
> > First issue: receive is fine on LSB and FSK, until you transmit,
> then the signal drops by about 40 db. Turn the radio power off, and
> the display comes on 100 plus kc higher than what you were
> transmitting on and the radio is still deaf, flick the band switch and
> the receive jumps into life and the frequency display is correct !!!
> >
> > As soon as you key up, it goes deaf again and you have to repeat the
> process.
> >
> > Second issue. On every other mode than LSB and FSK, the vfo does not
> change the display frequency and on 10 meters display is 290000 mhz,
> same on 21 mhz (290000), on the other bands same thing 7 mhz show
> 90000, as does three megs and.
> >
> > Very, very strange don't you think
> >
> > And I am trying to fix this thing, I only just bought it as a
> restore/parts job !
> >
> > &3's
> > Anthony
> >
> >
> > ----- Original Message -----
> > From: vk3bfa
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, July 14, 2006 10:10 AM
> > Subject: [TS-520_820_530_830] Interesting ts520 audio fault
> >
> >
> > This one drove me mad for a few days....
> >
> > Symptoms. Lousy audio quality, very harsh. CRO showed very short
high
> > amplitude spikes on signal.
> >
> > Remedy: - tighten bolts holding down audio out transistors - had
gone
> > high resitance due age. Bolt heads are soldered to PCB, relying on

> > presssure of nuts to make conatct with metal can.
> >
> > Usual fault finding methodology didnt work in this case, ie
disconnect
> > input, noise dissapears. QED - noise SHOULD be external to amp.
(Wrong
> > in this case - red herring) Progressively disconnect signal chain,
> > noise level reduces but still there.
> >
> > Finally, took output of detector and fed to external audio amp - all
> > ok. This isolates fault to audio board, and then was found ......
> >
> > 73 de VK3BFA.
> >
> >
> >
> >
> >
> >
> >
>

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date:
> 13/07/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.0/388 - Release Date: 7/13/06

[Non-text portions of this message have been removed]

8247. [TS-520_820_530_830] Re: 820s problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 12:13:51 UTC
From: Walt Breining
Topic: 8246 Message: 8247

Anthony:
Forgot to mention earlier, VR 4 on the AF AVR board goes bad causing the 9v supply to have problems. Look at the 9v with a volt meter and gently tap VR 4 with an insulated tool. If it acts intermittent replace it.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

8248. TS 830S readout

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 11:47:28 UTC
From: Bob
Topic: 8248 Message: 8248

I recently changed the filter caps in the old 830....now my readout seems not to be as bright....what's up with this ?
Bob

8249. Re: [TS-520_820_530_830] TS 830S readout

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 15:01:59 UTC
From: Bill Leahy
Topic: 8248 Message: 8249

Which caps? If the high voltage caps, should have nothing to do with the readout voltages. However, something else may have been disturbed in the process.

You may want to pull the rectifier unit board and check all solder joints, particularly around the low voltage PS diodes.

bill K0ZL

On 7/15/06, Bob <bob7255khz@...> wrote:
>
> I recently changed the filter caps in the old 830....now my readout
> seems not to be as bright....what's up with this ?
> Bob
>
>
>

[Non-text portions of this message have been removed]

8250. Re: [TS-520_820_530_830] using a transverter with a ts-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 11:53:18 UTC
From: yash@aol.com
Topic: 8233 Message: 8250

Bill
thanks,will check that route out.
dale

-----Original Message-----
From: k0zl.ham@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 15 Jul 2006 1:08 AM
Subject: Re: [TS-520_820_530_830] using a transverter with a ts-830

Your primary concern is to keep the rig from blowing the transverter!

I set up an 830 for a guy, using the SG switch; instead of turning the
finals clear off, I found a voltage value that would let the rig transmit at
5-8 watts, just perfect for the TenTec transverter.

bill

On 7/14/06, dalepavlicek <yash@...> wrote:
>
> Looked thru old posts found a lot of questions ,but no answers. I
> would like to keep the kenwood all kenwood, first choice would be the
> TV-502 OR OTHER KENWOOD 2 METER TRANSVERTER? If that is not possible
> ,how about a tentec 2 meter transverter with the 830?
> I don't want to reinvent the wheel,so If anyone has been able to use
> these or any other 2 meter transverter with the 830 ,please let me
> know what and how you did.
> thanks to all for reading and any help on this.
> thanks
> dale wt4t
>
>
>

[Non-text portions of this message have been removed]

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

8251. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 16:41:10 UTC
From: Gordon
Topic: 8207 Message: 8251

Thanks Dave,
That is good to know for future reference. This Time I found a guy
that had one he sold me. I'm just waiting for it to arrive. Hopefully
later today or Monday.
Thanks again for the tip.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "David Franklin"
<dfranklyn@...> wrote:
>
> Gordon,
>
> I had a similar problem with my TS-820. L8 on the coil pack was burned
> shorted. It had the same symptoms, all four leads were shorted.
It is in
> the RX antenna path therefore it caused the sensitivity to be very low.
>
> I was able to unwind the coil very carefully counting the turns and
rewind
> using wire from a coil on a stripped Hallicrafters S-40 chassis.
>
> Might be worth a try if you cannot find a replacement.
>
> Good Luck,
> Dave
> ki4jsn
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, July 12, 2006 5:27 PM
> Subject: [TS-520_820_530_830] Re: My Newest Project.
>
>
> Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
> out. All 4 wire terminals have continuity with each other and it
> smells Burnt.
> Boy, That's some small wire to try and rewind..hi hi..
> I'm hoping someone has one they will sell me.
>
> Gordon
>

8252. Re: [TS-520_820_530_830] Re: 820s problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 20:47:22 UTC
From: agoodridge
Topic: 8246 Message: 8252

G'day again Walt

Thanks mate

I will try all your pointers and hopefully get a result.

Regards
Anthony
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 15, 2006 10:13 PM
Subject: [TS-520_820_530_830] Re: 820s problem

Anthony:
Forgot to mention earlier, VR 4 on the AF AVR board goes bad causing the 9v supply to have problems. Look at the 9v with a volt meter and gently tap VR 4 with an insulated tool. If it acts intermittent replace it.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 14/07/2006

[Non-text portions of this message have been removed]

8253. Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 21:21:25 UTC
From: Gordon
Topic: 8253 Message: 8253

I was wondering, I am thinking of buying a used Scope that is NOT going to cost me an arm and a Leg.
I have been looking at some Tektronix Oscilloscopes, But held off until I could get some feedback from some of you guys. I figure a scope could aid me in repairing some of these Rigs.
So, Can I get some Opinions from some of you?

Thanks,
Gordon

8254. Need Help with Kenwood Twins

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 21:27:37 UTC
From: wc0l
Topic: 8254 Message: 8254

Hi everybody. I have a chance to buy an old set of 599D Twins that are pretty much basket cases. Will take a lot of work. The interconnecting cable is missing. I know these rigs are not worth much without the cable. Does anyone have a cable you would be willing to part with? If not, do you have any idea where I can come up with that old 16 pin connector needed on each end so that I could possibly build a cable?

Thanks very much and 73,
Mike, WC0L

8255. Re: [TS-520_820_530_830] Need Help with Kenwood Twins

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-15 23:46:25 UTC
From: Peter A Markavage
Topic: 8254 Message: 8255

They're great rigs with or without the interconnecting cable. The cable just turns them into a transceiver. Separate receiver and transmitter setups have been around since the beginning of radio. A cable supplier probably can come up with the cable or check Mouser, Allied, or Newark Electronics. I can't remember, don't have the schematic in front of me, whether there is any shielded wires in the original cable. If not, get two lengths of 8 conductor rotor cable. The same kind of cable used on the CDE/Hy-Gain rotors. I believe there are only 12 connections needed on the connectors. The connectors are available from some Company in England. Check the archives; I believe the source was given once or twice. I've had my original 599D Twins running fine on AM and SSB since the mid 70's.

Pete, wa2cwa

On Sat, 15 Jul 2006 21:27:37 -0000 "wc0l" <wc0l@...> writes:
> Hi everybody. I have a chance to buy an old set of 599D Twins that
>
> are pretty much basket cases. Will take a lot of work. The
> interconnecting cable is missing. I know these rigs are not worth
> much without the cable. Does anyone have a cable you would be
> willing
> to part with? If not, do you have any idea where I can come up with
>
> that old 16 pin connector needed on each end so that I could
> possibly
> build a cable?
>
> Thanks very much and 73,
> Mike, WC0L

8256. Re: Need Help with Kenwood Twins

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 01:57:05 UTC
From: Louis A. Bellock
Topic: 8254 Message: 8256

Hello Mike,
These rigs are worth their weight in gold and you will be pleased that you decided to resurrect them. Firstly, if you cannot find connectors or don't want to fabricate cables, I see them on eBay frequently.
Next, I purchased a set of 599D twins on eBay NEW IN THE BOXES in 2002. They cost me $1K US but they were worth every penny. Having had 520s, 820s, 120s, 530s and much other brand gear; these rigs are about the best I've ever operated with. They are absolute quality, rock-solid and a feature-packed pair.
Best 73 and good luck on your purchase.
Lou N2JPR

--- In TS-520_820_530_830@yahoogroups.com, "wc0l" <wc0l@...> wrote:
>
> Hi everybody. I have a chance to buy an old set of 599D Twins that
> are pretty much basket cases. Will take a lot of work. The
> interconnecting cable is missing. I know these rigs are not worth
> much without the cable. Does anyone have a cable you would be
willing
> to part with? If not, do you have any idea where I can come up with
> that old 16 pin connector needed on each end so that I could possibly
> build a cable?
>
> Thanks very much and 73,
> Mike, WC0L
>

8257. Re: [TS-520_820_530_830] Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 14:52:52 UTC
From: Bill Leahy
Topic: 8253 Message: 8257

Minimum 60 mhz, dual channel, non digital. Does not have to have memory function.

Make sure you get the book and the probes (x10), or can get them easily.

bill

On 7/15/06, Gordon <n6wk@...> wrote:
>
> I was wondering, I am thinking of buying a used Scope that is NOT
> going to cost me an arm and a Leg.
> I have been looking at some Tektronix Oscilloscopes, But held off
> until I could get some feedback from some of you guys. I figure a
> scope could aid me in repairing some of these Rigs.
> So, Can I get some Opinions from some of you?
>
> Thanks,
> Gordon
>
>
>

[Non-text portions of this message have been removed]

8258. Re: [TS-520_820_530_830] Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 18:05:16 UTC
From: KE5EOT
Topic: 8253 Message: 8258

For the most part, Tektronix scopes are great. Take a good look at the intensity on the crt if you buy one of the newer models. Some have a fairly short life on the crt and replacement is expensive. A quick web search will tell you which are the problem models. My experience was with a 1400 series.

Randy (KE5EOT) -.- . ... --- -

Gordon wrote:
>
>
> I was wondering, I am thinking of buying a used Scope that is NOT
> going to cost me an arm and a Leg.
> I have been looking at some Tektronix Oscilloscopes, But held off
> until I could get some feedback from some of you guys. I figure a
> scope could aid me in repairing some of these Rigs.
> So, Can I get some Opinions from some of you?
>
> Thanks,
> Gordon
>
>

8259. Re: Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 19:41:11 UTC
From: Gordon
Topic: 8253 Message: 8259

Bill,
Why 60mhz Minimum?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...>
wrote:
>
> Minimum 60 mhz, dual channel, non digital. Does not have to have memory
> function.
>
> Make sure you get the book and the probes (x10), or can get them easily.
>
> bill
>
>
> On 7/15/06, Gordon <n6wk@...> wrote:
> >
> > I was wondering, I am thinking of buying a used Scope that is NOT
> > going to cost me an arm and a Leg.
> > I have been looking at some Tektronix Oscilloscopes, But held off
> > until I could get some feedback from some of you guys. I figure a
> > scope could aid me in repairing some of these Rigs.
> > So, Can I get some Opinions from some of you?
> >
> > Thanks,
> > Gordon
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8260. Re: [TS-520_820_530_830] Re: Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 20:57:55 UTC
From: Edwin
Topic: 8253 Message: 8260

Gordon
How about a Tek 466 scope? Maybe we can work something out if you are interested.
Edwin
N1DFB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, July 16, 2006 3:41 PM
Subject: [TS-520_820_530_830] Re: Tektronix Oscilloscope

Bill,
Why 60mhz Minimum?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...>
wrote:
>
> Minimum 60 mhz, dual channel, non digital. Does not have to have memory
> function.
>
> Make sure you get the book and the probes (x10), or can get them easily.
>
> bill
>
>
> On 7/15/06, Gordon <n6wk@...> wrote:
> >
> > I was wondering, I am thinking of buying a used Scope that is NOT
> > going to cost me an arm and a Leg.
> > I have been looking at some Tektronix Oscilloscopes, But held off
> > until I could get some feedback from some of you guys. I figure a
> > scope could aid me in repairing some of these Rigs.
> > So, Can I get some Opinions from some of you?
> >
> > Thanks,
> > Gordon
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8261. Re: VFO Calibration problem any source for the SEND switch paddles?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 21:52:23 UTC
From: Sergio Potes
Topic: 8161 Message: 8261

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>James:
Thanks for your e-mail I will pass it a long to my friend.
I have a TS-520 and a TS-830 and I love these old radios. There
audio is very good and they are built like a tank.
Thank you! Sergio

> hi Sergio,
>
> here is the part number for the paddle (knob) only,
> not the switch
>
> K29-0370-00
> kenwoodparts.com
> pacparts.com
> Knob Black (fits paddle switch)
>
> here is the part number for the
> send/rec switch
> S44-2016-05
>
> I have added this info the the database section
> under replacement parts
>
> 73 james ke4drn
>

8262. Re: Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 21:55:34 UTC
From: Gordon
Topic: 8253 Message: 8262

Hi Edwin,
Yes, I am interested. Please contact me OFF-List and let me know
what you have in mind !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Edwin"
<el-stewart-1@...> wrote:
>
> Gordon
> How about a Tek 466 scope? Maybe we can work something out if you
are interested.
> Edwin
> N1DFB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, July 16, 2006 3:41 PM
> Subject: [TS-520_820_530_830] Re: Tektronix Oscilloscope
>
>
> Bill,
> Why 60mhz Minimum?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@>
> wrote:
> >
> > Minimum 60 mhz, dual channel, non digital. Does not have to have
memory
> > function.
> >
> > Make sure you get the book and the probes (x10), or can get them
easily.
> >
> > bill
> >
> >
> > On 7/15/06, Gordon <n6wk@> wrote:
> > >
> > > I was wondering, I am thinking of buying a used Scope that is NOT
> > > going to cost me an arm and a Leg.
> > > I have been looking at some Tektronix Oscilloscopes, But held off

> > > until I could get some feedback from some of you guys. I figure a
> > > scope could aid me in repairing some of these Rigs.
> > > So, Can I get some Opinions from some of you?
> > >
> > > Thanks,
> > > Gordon
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8263. Re: VFO Calibration problem any source for the SEND switch paddles?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-16 21:52:25 UTC
From: Sergio Potes
Topic: 8161 Message: 8263

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>James:
Thanks for your e-mail I will pass it a long to my friend.
I have a TS-520 and a TS-830 and I love these old radios. There
audio is very good and they are built like a tank.
Thank you! Sergio

> hi Sergio,
>
> here is the part number for the paddle (knob) only,
> not the switch
>
> K29-0370-00
> kenwoodparts.com
> pacparts.com
> Knob Black (fits paddle switch)
>
> here is the part number for the
> send/rec switch
> S44-2016-05
>
> I have added this info the the database section
> under replacement parts
>
> 73 james ke4drn
>

8264. Re: [TS-520_820_530_830] Re: Tektronix Oscilloscope

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-17 02:36:39 UTC
From: Bill Leahy
Topic: 8253 Message: 8264

Many radio IFs are 70+megs; many Local Oscillators likewise are "up there".

I have a scope that is rated to 15 megs, it does respond well up thru 30
megs; about 3x a year I need something higher.

bill

On 7/16/06, Gordon <n6wk@...> wrote:
>
> Bill,
> Why 60mhz Minimum?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "Bill Leahy" <k0zl.ham@...>
> wrote:
> >
> > Minimum 60 mhz, dual channel, non digital. Does not have to have memory
> > function.
> >
> > Make sure you get the book and the probes (x10), or can get them easily.
> >
> > bill
> >
> >
> > On 7/15/06, Gordon <n6wk@...> wrote:
> > >
> > > I was wondering, I am thinking of buying a used Scope that is NOT
> > > going to cost me an arm and a Leg.
> > > I have been looking at some Tektronix Oscilloscopes, But held off
> > > until I could get some feedback from some of you guys. I figure a
> > > scope could aid me in repairing some of these Rigs.
> > > So, Can I get some Opinions from some of you?
> > >
> > > Thanks,
> > > Gordon
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

>

[Non-text portions of this message have been removed]

8265. Re: [TS-520_820_530_830] Need Help with Kenwood Twins

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-17 06:13:44 UTC
From: N3DOK
Topic: 8254 Message: 8265

Hi Mike, On this web site. http://www.rigpix.com/index.shtml
Go to the page on the Kenwood http://www.rigpix.com/kenwood/kenwoodselect.htm
You will find the wiring diagram for the 16 pin connector that goes between a R-599D and a T-599D. If you can find the plug, you may be able to wire your own cable. The last thing wound be to change the connectors on both radios to another type setup. I'm sure there will be some other ideas. Or you may find a real cable!

Good Luck,
Bob N3DOK

http://www.rigpix.com/kenwood/r599d.htm
----- Original Message -----
From: wc0l
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 15, 2006 5:27 PM
Subject: [TS-520_820_530_830] Need Help with Kenwood Twins

Hi everybody. I have a chance to buy an old set of 599D Twins that
are pretty much basket cases. Will take a lot of work. The
interconnecting cable is missing. I know these rigs are not worth
much without the cable. Does anyone have a cable you would be willing
to part with? If not, do you have any idea where I can come up with
that old 16 pin connector needed on each end so that I could possibly
build a cable?

Thanks very much and 73,
Mike, WC0L

[Non-text portions of this message have been removed]

8266. National Electronics 6293 tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-17 06:36:37 UTC
From: stevehurstg8lik2003
Topic: 8266 Message: 8266

Hi,
I searched the archives and found some theoretical discussion on using these pulse rated,electrically ruggedised tubes from the 6146 family. I recently purchased some from eBay as potential spares for my finals. What I should be interested to know-has anyone actually tested 6293s in a Kenwood hybrid and if so any issues such as neutralising?

73's to all

Steve G8LIK

8267. Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 01:53:47 UTC
From: Gordon
Topic: 8207 Message: 8267

Well, I received the 1.5 Mhz Ant Coil (L41) that I had discovered
was bad. I replaced the Coil and now the Rig works GREAT ! I also
replaced a bad wire loom that the connectors were deteriorated. I
completed the Alignment and adjusted the S meter to scale.
I neutralized the Finals and I am going to put it on the air Tonight
(If I get time).
Sure is a good feeling when you take a dead player and turn it into a
Fine piece of gear.
Now I need to look for another New Project .. This TS-830S Looks
Pretty good and seems to work Very well.
I'm starting to have TOO many Radios on hand though !
Time to sell/Swap a couple...

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Group,
> My newest project is a TS-830S that was a Dead player when I
> received it. No receive and No transmit, but it did have "White Noise
> Audio". I was able to trace the lack of signal to a bad Q5 on the RF
> board, which after changing, allowed the RF Amp to work. However, The
> signals are VERY weak. I continued my diagnostics and found a Burnt
> resitor on the rectifier board for the 210A circuit, caused by a
> pinched wire under the RF board. Ok, Fixed that. Now the rig Transmits
> and receives, but signals are VERY weak. I did an alignment of the Ant
> and the Mix coils today. What I found is, The Mix Coils seem to do
> NOTHING at all. The ANT coils do show some sound change when I adjust
> them using the calibrator as a source.
> The only band that shows ANY S meter movement at all when doing the
> Alignment is 15 meters. I am looking for Ideas???? I looked at the
> schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> removed the coil yet to Ohm it.
>
> Gordon
>

8268. vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 01:55:42 UTC
From: dalepavlicek
Topic: 8268 Message: 8268

Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
The readout is also not 100%.All the switching functions between the
ts830 and the vfo seem to work ok. I don't have a good enought bench
to be able to service the vfo230,any body have any suggestions where I
can send the vfo for service?
Also I have read that there is a mod for the vfo230 to drop its
tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
place where I can find out more about this mod. Can it be done also to
the pto on the ts-830 itself
I sure would be greatful for any help on this.
thanks
dale wt4t

8269. Re: TV-506 connecting cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 03:21:35 UTC
From: james27613
Topic: 7951 Message: 8269

hi alex,

the cable pinouts for the TV-506 6M transverter
are in the manual for the TV-502 2M transverter
(strange that kenwood did not include both in each manaul)

cable pinouts for the TV-502 2M transverter
are in the manual for the TS-520 radios.

here is a link for the manual that I uploaded to N6WK

http://www.n6wk.com/kenwood/tv-502.PDF

73 james ke4drn

8270. Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 04:03:13 UTC
From: Gordon
Topic: 8268 Message: 8270

Dale,
The Small (Idler Gear) is probably frozen on its shaft due to the
grease drying up. When that happens, the PTO appears to be "Locked Up"
I have carefully removed the gear, cleaned it up and relubed the
assembly. when you get done, it works like a fine Swiss Watch !
This is NOT a difficult repair.
Gordon

-- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@...> wrote:
>
> Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
> The readout is also not 100%.All the switching functions between the
> ts830 and the vfo seem to work ok. I don't have a good enought bench
> to be able to service the vfo230,any body have any suggestions where I
> can send the vfo for service?
> Also I have read that there is a mod for the vfo230 to drop its
> tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> place where I can find out more about this mod. Can it be done also to
> the pto on the ts-830 itself
> I sure would be greatful for any help on this.
> thanks
> dale wt4t
>

8271. Re: TS-130 S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 11:51:13 UTC
From: Frank
Topic: 8218 Message: 8271

Gordon,

Thanks for the feedback. In the meantime I have cleaned all contacts
with contactcleaner and washingspray. No effect. I manipulated the
contacts on the swichboard with a toothpick to see if there was a
false contact, but no effect at all.
I have also tightend all boardscrews. No effect.
Pulled out all the connecters, cleaned them, but no effect !
The cause of excessive play on the bandswitch is a "loose" planetary
drive. But I cannot reach it to tighten it up. I should remove the
frontplate, but I don't know how. I have no technical manual...
Still No rx and no display on 24 mc yet !

73
Frank

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Frank,
> The FIRST thing I would do would be to Locate the cause of the
> excessive play in the band switch. I then would clean the contacts on
> the bandswitch with de-oxit. Also, I used to have a TS-130S and there
> were some issues with the board screws not being tight enough and
> therefore causing bad grounds. I will try to find some of the articles
> I used to have for the 130.
> For now, Take a good look at that band switch
>
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Frank" <on4kz@> wrote:
> >
> > Hello to all,
> >
> > After restoring two 830, I now have purchased a ts-130s. The problem
> > here is that there is no rx and no display on 12m. All the other bands
> > are ok. The warc modification is done. Any idea where to start
looking ?
> > Another problem is that there is a lot of "free play" on the
bandswitch.
> >
> > All suggestions are welcome
> > Thanks
> > 73
> > Frank

> >
>

8272. Re: [TS-520_820_530_830] Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 13:42:04 UTC
From: yash@aol.com
Topic: 8268 Message: 8272

Gordon
sounds good to me ,will pull the cabinet and take a look would be great if the problem was a simple fix. Have you ever heard od the mod to slow the turn ratio of the vfo down?
thanks
dale

-----Original Message-----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 18 Jul 2006 12:03 AM
Subject: [TS-520_820_530_830] Re: vfo230 problem and question

Dale,
The Small (Idler Gear) is probably frozen on its shaft due to the
grease drying up. When that happens, the PTO appears to be "Locked Up"
I have carefully removed the gear, cleaned it up and relubed the
assembly. when you get done, it works like a fine Swiss Watch !
This is NOT a difficult repair.
Gordon

-- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@...> wrote:
>
> Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
> The readout is also not 100%.All the switching functions between the
> ts830 and the vfo seem to work ok. I don't have a good enought bench
> to be able to service the vfo230,any body have any suggestions where I
> can send the vfo for service?
> Also I have read that there is a mod for the vfo230 to drop its
> tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> place where I can find out more about this mod. Can it be done also to
> the pto on the ts-830 itself
> I sure would be greatful for any help on this.
> thanks
> dale wt4t
>

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

[Non-text portions of this message have been removed]

8275. Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 17:18:37 UTC
From: Gordon
Topic: 8268 Message: 8275

Hi Dale,
yes, I found the Mod on the Web.
It is about half way down the page:
http://www.radiomods.co.nz/kenwood/kenwoodts830.html

Ok, On the VFO.. I'll get it right yet.
It appears that the 230 does NOT have gears, so It would mean that
the Encoder shaft is frozen.
It could very well be that something is stuck in one of the slots in
the encoder wheel, or it could be that the shaft is just stuck in it's
bushing. I looked at the pictures just now, and it should be easy to
determine what is wrong and fix.
Sorry about the confusion, I was picturing the VFO inside the 830 when
I started talking about gears !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Gordon
> sounds good to me ,will pull the cabinet and take a look would be
great if the problem was a simple fix. Have you ever heard od the mod
to slow the turn ratio of the vfo down?
> thanks
> dale
>
> -----Original Message-----
> From: n6wk@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 12:03 AM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Dale,
> The Small (Idler Gear) is probably frozen on its shaft due to the
> grease drying up. When that happens, the PTO appears to be "Locked Up"
> I have carefully removed the gear, cleaned it up and relubed the
> assembly. when you get done, it works like a fine Swiss Watch !
> This is NOT a difficult repair.
> Gordon
>
> -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@> wrote:
> >
> > Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
> > The readout is also not 100%.All the switching functions between the
> > ts830 and the vfo seem to work ok. I don't have a good enought bench

> > to be able to service the vfo230,any body have any suggestions
where I
> > can send the vfo for service?
> > Also I have read that there is a mod for the vfo230 to drop its
> > tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> > place where I can find out more about this mod. Can it be done
also to
> > the pto on the ts-830 itself
> > I sure would be greatful for any help on this.
> > thanks
> > dale wt4t
> >
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

8276. Re: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 18:48:06 UTC
From: Walt Breining
Topic: 8207 Message: 8276

Take some time to get to know the 830s. You will probably really like it. It has a good processor, something I can't say about a lot of rigs and the receiver is outstanding.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 17, 2006 8:53 PM
Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

Well, I received the 1.5 Mhz Ant Coil (L41) that I had discovered
was bad. I replaced the Coil and now the Rig works GREAT ! I also
replaced a bad wire loom that the connectors were deteriorated. I
completed the Alignment and adjusted the S meter to scale.
I neutralized the Finals and I am going to put it on the air Tonight
(If I get time).
Sure is a good feeling when you take a dead player and turn it into a
Fine piece of gear.
Now I need to look for another New Project .. This TS-830S Looks
Pretty good and seems to work Very well.
I'm starting to have TOO many Radios on hand though !
Time to sell/Swap a couple...

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Group,
> My newest project is a TS-830S that was a Dead player when I
> received it. No receive and No transmit, but it did have "White Noise
> Audio". I was able to trace the lack of signal to a bad Q5 on the RF
> board, which after changing, allowed the RF Amp to work. However, The
> signals are VERY weak. I continued my diagnostics and found a Burnt
> resitor on the rectifier board for the 210A circuit, caused by a
> pinched wire under the RF board. Ok, Fixed that. Now the rig Transmits
> and receives, but signals are VERY weak. I did an alignment of the Ant
> and the Mix coils today. What I found is, The Mix Coils seem to do
> NOTHING at all. The ANT coils do show some sound change when I adjust
> them using the calibrator as a source.
> The only band that shows ANY S meter movement at all when doing the
> Alignment is 15 meters. I am looking for Ideas???? I looked at the
> schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> removed the coil yet to Ohm it.

>
> Gordon
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/391 - Release Date: 7/18/06

[Non-text portions of this message have been removed]

8277. Re: [TS-520_820_530_830] Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 17:20:15 UTC
From: Stephen Goldberg
Topic: 8268 Message: 8277

Don't know if it will work with your VFO, but Ronsonol lighter fuel has been used for years to free gummed up camera adjustments. It softens the hardened lubricant and then evaporates.

Steve W4IMF

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 18, 2006 1:00 PM
Subject: [TS-520_820_530_830] Re: vfo230 problem and question

Hi Dale,
yes, I found the Mod on the Web.
It is about half way down the page:
http://www.radiomods.co.nz/kenwood/kenwoodts830.html

Looks like a fairly simple Mod.
Oh yea, When you remove the dials on the VFo, pay close attention to their alignment.

On the VFO Gears, I just realized that It might have a different gear assembly then I thought. Pull the cover and take a look. If there are gears (I'm fairly sure it does) might just try spraying them with some De-Oxit and let them Soak, then try working the PTO back and forth until it comes free. Once free, you can add a drop of sewing machine Oil to them.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Gordon
> sounds good to me ,will pull the cabinet and take a look would be great if the problem was a simple fix. Have you ever heard od the mod to slow the turn ratio of the vfo down?
> thanks
> dale
>
> -----Original Message-----
> From: n6wk@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 12:03 AM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Dale,

> The Small (Idler Gear) is probably frozen on its shaft due to the
> grease drying up. When that happens, the PTO appears to be "Locked Up"
> I have carefully removed the gear, cleaned it up and relubed the
> assembly. when you get done, it works like a fine Swiss Watch !
> This is NOT a difficult repair.
> Gordon
>
> -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@> wrote:
> >
> > Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
> > The readout is also not 100%.All the switching functions between the
> > ts830 and the vfo seem to work ok. I don't have a good enought bench
> > to be able to service the vfo230,any body have any suggestions
where I
> > can send the vfo for service?
> > Also I have read that there is a mod for the vfo230 to drop its
> > tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> > place where I can find out more about this mod. Can it be done
also to
> > the pto on the ts-830 itself
> > I sure would be greatful for any help on this.
> > thanks
> > dale wt4t
> >
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 7/14/06

[Non-text portions of this message have been removed]

8278. Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 18:00:18 UTC
From: Gordon
Topic: 8207 Message: 8278

Hi Walt,
Yes, I had and used an 830 for Over a year. In fact I had just sold it a few months ago. I agree, They are Great Rigs. I also agree that the Receivers are Fantastic in these 830's. I'll play with it for a bit, and then Sell it, I use the Sale Money to buy others to repair as I am enjoying repairing these old Rigs. It's a fun Hobby.
I had never realized how much fun and satisfying it is.
I'm having a Great Time doing it.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Take some time to get to know the 830s. You will probably really like it. It has a good processor, something I can't say about a lot of rigs and the receiver is outstanding.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, July 17, 2006 8:53 PM
> Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE
>
>
> Well, I received the 1.5 Mhz Ant Coil (L41) that I had discovered
> was bad. I replaced the Coil and now the Rig works GREAT ! I also
> replaced a bad wire loom that the connectors were deteriorated. I
> completed the Alignment and adjusted the S meter to scale.
> I neutralized the Finals and I am going to put it on the air Tonight
> (If I get time).
> Sure is a good feeling when you take a dead player and turn it into a
> Fine piece of gear.
> Now I need to look for another New Project .. This TS-830S Looks
> Pretty good and seems to work Very well.
> I'm starting to have TOO many Radios on hand though !
> Time to sell/Swap a couple...
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >

> > Hi Group,
> > My newest project is a TS-830S that was a Dead player when I
> > received it. No receive and No transmit, but it did have "White
Noise
> > Audio". I was able to trace the lack of signal to a bad Q5 on the RF
> > board, which after changing, allowed the RF Amp to work.
However, The
> > signals are VERY weak. I continued my diagnostics and found a Burnt
> > resitor on the rectifier board for the 210A circuit, caused by a
> > pinched wire under the RF board. Ok, Fixed that. Now the rig
Transmits
> > and receives, but signals are VERY weak. I did an alignment of
the Ant
> > and the Mix coils today. What I found is, The Mix Coils seem to do
> > NOTHING at all. The ANT coils do show some sound change when I
adjust
> > them using the calibrator as a source.
> > The only band that shows ANY S meter movement at all when doing the
> > Alignment is 15 meters. I am looking for Ideas???? I looked at the
> > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > removed the coil yet to Ohm it.
> >
> > Gordon
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.1/391 - Release Date:
7/18/06
>
>
> [Non-text portions of this message have been removed]
>

8279. Re: [TS-520_820_530_830] Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 21:38:14 UTC
From: yash@aol.com
Topic: 8268 Message: 8279

Steve
will give the fluid a try. Giong to get into it tonight.
thanks dale

-----Original Message-----
From: w2imf@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 18 Jul 2006 1:20 PM
Subject: Re: [TS-520_820_530_830] Re: vfo230 problem and question

Don't know if it will work with your VFO, but Ronsonol lighter fuel has been used for years to free gummed up camera adjustments. It softens the hardened lubricant and then evaporates.

Steve W4IMF

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 18, 2006 1:00 PM
Subject: [TS-520_820_530_830] Re: vfo230 problem and question

Hi Dale,
yes, I found the Mod on the Web.
It is about half way down the page:
http://www.radiomods.co.nz/kenwood/kenwoodts830.html

Looks like a fairly simple Mod.
Oh yea, When you remove the dials on the VFo, pay close attention to their alignment.

On the VFO Gears, I just realized that It might have a different gear assembly then I thought. Pull the cover and take a look. If there are gears (I'm fairly sure it does) might just try spraying them with some De-Oxit and let them Soak, then try working the PTO back and forth until it comes free. Once free, you can add a drop of sewing machine Oil to them.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Gordon
> sounds good to me ,will pull the cabinet and take a look would be great if the problem was a simple fix. Have you ever heard od the mod to slow the turn ratio of the vfo down?
> thanks

> dale
>
> -----Original Message-----
> From: n6wk@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 12:03 AM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Dale,
> The Small (Idler Gear) is probably frozen on its shaft due to the
> grease drying up. When that happens, the PTO appears to be "Locked Up"
> I have carefully removed the gear, cleaned it up and relubed the
> assembly. when you get done, it works like a fine Swiss Watch !
> This is NOT a difficult repair.
> Gordon
>
> -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@> wrote:
> >
> > Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
> > The readout is also not 100%.All the switching functions between the
> > ts830 and the vfo seem to work ok. I don't have a good enought bench
> > to be able to service the vfo230,any body have any suggestions
where I
> > can send the vfo for service?
> > Also I have read that there is a mod for the vfo230 to drop its
> > tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> > place where I can find out more about this mod. Can it be done
also to
> > the pto on the ts-830 itself
> > I sure would be greatful for any help on this.
> > thanks
> > dale wt4t
> >
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 7/14/06

[Non-text portions of this message have been removed]

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

[Non-text portions of this message have been removed]

8280. Re: [TS-520_820_530_830] Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 21:41:37 UTC
From: yash@aol.com
Topic: 8268 Message: 8280

Gordon
Just pulled the case on the 230 ,so here goes will let you know what I find.thanks agin for the info.
dale wt4t

-----Original Message-----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 18 Jul 2006 1:18 PM
Subject: [TS-520_820_530_830] Re: vfo230 problem and question

Hi Dale,
yes, I found the Mod on the Web.
It is about half way down the page:
http://www.radiomods.co.nz/kenwood/kenwoodts830.html

Ok, On the VFO.. I'll get it right yet.
It appears that the 230 does NOT have gears, so It would mean that the Encoder shaft is frozen.
It could very well be that something is stuck in one of the slots in the encoder wheel, or it could be that the shaft is just stuck in it's bushing. I looked at the pictures just now, and it should be easy to determine what is wrong and fix.
Sorry about the confusion, I was picturing the VFO inside the 830 when I started talking about gears !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Gordon
> sounds good to me ,will pull the cabinet and take a look would be great if the problem was a simple fix. Have you ever heard od the mod to slow the turn ratio of the vfo down?
> thanks
> dale
>
> -----Original Message-----
> From: n6wk@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 12:03 AM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Dale,
> The Small (Idler Gear) is probably frozen on its shaft due to the

> grease drying up. When that happens, the PTO appears to be "Locked Up"
> I have carefully removed the gear, cleaned it up and relubed the
> assembly. when you get done, it works like a fine Swiss Watch !
> This is NOT a difficult repair.
> Gordon
>
> -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@> wrote:
> >
> > Picked up a vfo-230 ,the unit is locked up as though the pto is shot.
> > The readout is also not 100%.All the switching functions between the
> > ts830 and the vfo seem to work ok. I don't have a good enought bench
> > to be able to service the vfo230,any body have any suggestions
where I
> > can send the vfo for service?
> > Also I have read that there is a mod for the vfo230 to drop its
> > tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> > place where I can find out more about this mod. Can it be done
also to
> > the pto on the ts-830 itself
> > I sure would be greatful for any help on this.
> > thanks
> > dale wt4t
> >
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

8281. Re: vfo230 problem and question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-18 23:41:19 UTC
From: Gordon
Topic: 8268 Message: 8281

Dale,
Let us know what you find in there. Please !!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Steve
> will give the fluid a try. Giong to get into it tonight.
> thanks dale
>
> -----Original Message-----
> From: w2imf@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 1:20 PM
> Subject: Re: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Don't know if it will work with your VFO, but Ronsonol lighter
fuel has been used for years to free gummed up camera adjustments. It
softens the hardened lubricant and then evaporates.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, July 18, 2006 1:00 PM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Hi Dale,
> yes, I found the Mod on the Web.
> It is about half way down the page:
> http://www.radiomods.co.nz/kenwood/kenwoodts830.html
>
> Looks like a fairly simple Mod.
> Oh yea, When you remove the dials on the VFo, pay close attention to
> their alignment.
>
> On the VFO Gears, I just realized that It might have a different gear
> assembly then I thought. Pull the cover and take a look. If there are
> gears (I'm fairly sure it does) might just try spraying them with
> some De-Oxit and let them Soak, then try working the PTO back and
> forth until it comes free. Once free, you can add a drop of sewing
> machine Oil to them.

> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, yash@ wrote:
> >
> > Gordon
> > sounds good to me ,will pull the cabinet and take a look would be
> great if the problem was a simple fix. Have you ever heard od the mod
> to slow the turn ratio of the vfo down?
> > thanks
> > dale
> >
> > -----Original Message-----
> > From: n6wk@
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tue, 18 Jul 2006 12:03 AM
> > Subject: [TS-520_820_530_830] Re: vfo230 problem and question
> >
> > Dale,
> > The Small (Idler Gear) is probably frozen on its shaft due to the
> > grease drying up. When that happens, the PTO appears to be
"Locked Up"
> > I have carefully removed the gear, cleaned it up and relubed the
> > assembly. when you get done, it works like a fine Swiss Watch !
> > This is NOT a difficult repair.
> > Gordon
> >
> > -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@>
wrote:
> > >
> > > Picked up a vfo-230 ,the unit is locked up as though the pto is
shot.
> > > The readout is also not 100%.All the switching functions
between the
> > > ts830 and the vfo seem to work ok. I don't have a good enought
bench
> > > to be able to service the vfo230,any body have any suggestions
> where I
> > > can send the vfo for service?
> > > Also I have read that there is a mod for the vfo230 to drop its
> > > tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> > > place where I can find out more about this mod. Can it be done
> also to
> > > the pto on the ts-830 itself
> > > I sure would be greatful for any help on this.
> > > thanks
> > > dale wt4t
> > >
> >
> >

> > _____
> > Check out AOL.com today. Breaking news, video search, pictures,
> email and IM. All on demand. Always Free.
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> ----------
>
> Certified Virus Free.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 7/14/06
>
> [Non-text portions of this message have been removed]
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

8282. Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 03:42:37 UTC
From: Gordon
Topic: 8207 Message: 8282

I just Noticed,
My Latest TS-830S project is actually a TS-830S GOLD version. It
sure does work good. I have been having qso's tonite and it is FUN to
use. Has the Optional CW filter in her also.
So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
Anyone have any suggestions ?? I LOVE repairing them, But I need to
sell them to Purchase more to Fix !! I really don't want to use Ebay
to sell my toys....
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Walt,
> Yes, I had and used an 830 for Over a year. In fact I had just sold
> it a few months ago. I agree, They are Great Rigs. I also agree that
> the Receivers are Fantastic in these 830's. I'll play with it for a
> bit, and then Sell it, I use the Sale Money to buy others to repair
> as I am enjoying repairing these old Rigs. It's a fun Hobby.
> I had never realized how much fun and satisfying it is.
> I'm having a Great Time doing it.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > Take some time to get to know the 830s. You will probably really
> like it. It has a good processor, something I can't say about a lot of
> rigs and the receiver is outstanding.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, July 17, 2006 8:53 PM
> > Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE
> >
> >
> > Well, I received the 1.5 Mhz Ant Coil (L41) that I had discovered
> > was bad. I replaced the Coil and now the Rig works GREAT ! I also
> > replaced a bad wire loom that the connectors were deteriorated. I
> > completed the Alignment and adjusted the S meter to scale.

> > I neutralized the Finals and I am going to put it on the air Tonight
> > (If I get time).
> > Sure is a good feeling when you take a dead player and turn it
into a
> > Fine piece of gear.
> > Now I need to look for another New Project .. This TS-830S Looks
> > Pretty good and seems to work Very well.
> > I'm starting to have TOO many Radios on hand though !
> > Time to sell/Swap a couple...
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Group,
> > > My newest project is a TS-830S that was a Dead player when I
> > > received it. No receive and No transmit, but it did have "White
> Noise
> > > Audio". I was able to trace the lack of signal to a bad Q5 on
the RF
> > > board, which after changing, allowed the RF Amp to work.
> However, The
> > > signals are VERY weak. I continued my diagnostics and found a
Burnt
> > > resitor on the rectifier board for the 210A circuit, caused by a
> > > pinched wire under the RF board. Ok, Fixed that. Now the rig
> Transmits
> > > and receives, but signals are VERY weak. I did an alignment of
> the Ant
> > > and the Mix coils today. What I found is, The Mix Coils seem to do
> > > NOTHING at all. The ANT coils do show some sound change when I
> adjust
> > > them using the calibrator as a source.
> > > The only band that shows ANY S meter movement at all when
doing the
> > > Alignment is 15 meters. I am looking for Ideas???? I looked at the
> > > schematic and it appears if L41 (1.5 MHZ Coil) is Open, it would
> > > effect Everything in the MIX Coils... Ideas anyone ?? I have NOT
> > > removed the coil yet to Ohm it.
> > >
> > > Gordon
> > >
> >
> >
> >
> >
> >
> >
> >

>

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.1/391 - Release Date:
> 7/18/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

8283. Re: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 09:14:50 UTC
From: Walt Breining
Topic: 8207 Message: 8283

So you have a Gold version? These are quite rare. The tank coils of these units were made of a special metal called accelloraium. It caused longer wavelength signals to travel more rapidly that the speed of light which allowed them to propagate more like shorter wavelength signals. These were only marketed for a 60 day period because the WARC committee quickly banned their use because of concerns of time distortion issues. However, you can secretly use one of these on 80 meters for DX. It will be particularly effective on 80 DX because accelloraium resonated signals will propagate like most 20 meter signals.

Just keep a low profile when doing this.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 18, 2006 10:42 PM
Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

I just Noticed,
My Latest TS-830S project is actually a TS-830S GOLD version. It
sure does work good. I have been having qso's tonite and it is FUN to
use. Has the Optional CW filter in her also.
So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
Anyone have any suggestions ?? I LOVE repairing them, But I need to
sell them to Purchase more to Fix !! I really don't want to use Ebay
to sell my toys....
73,
Gordon
N6WK

[Non-text portions of this message have been removed]

8284. Re: [TS-520_820_530_830] Re: TV-506 connecting cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 09:14:21 UTC
From: alexsen
Topic: 7951 Message: 8284

Thanks James, I'm in the process of making the cable now.

73
aLEx
LU9BAW

----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 18, 2006 1:21 PM
Subject: [TS-520_820_530_830] Re: TV-506 connecting cable

hi alex,

the cable pinouts for the TV-506 6M transverter
are in the manual for the TV-502 2M transverter
(strange that kenwood did not include both in each manaul)

cable pinouts for the TV-502 2M transverter
are in the manual for the TS-520 radios.

here is a link for the manual that I uploaded to N6WK

http://www.n6wk.com/kenwood/tv-502.PDF

73 james ke4drn

[Non-text portions of this message have been removed]

8285. new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 13:57:23 UTC
From: scott
Topic: 11 Message: 8285

Hello to the group, joined today. My last hybrid rig was 5 years ago (Yaesu FT-101ZD). Ive missed it since I sold it. I've been looking for a good deal on a Kenwood TS520-S. I finally found one locally and got a great deal. It puts out about 120 watts on 40Meters and about 95 watts on 10 meters, I think I remember this is about right with 6146b's?? Very stable VFO it seems, better than the Yaesu. Anyway that's the deal with me briefly, cheers, scott.

8286. 530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 16:09:47 UTC
From: fraysier2001
Topic: 8286 Message: 8286

Hi,
I am needing the plastic face plate and retaining nut for a 530sp.
Does anyone have these parts or can refer me to a place to purchase them?

Thanks,
Larry - N4HIT

8287. Re: [TS-520_820_530_830] Re: vfo230 problem and question... problem solved...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 14:18:49 UTC
From: yash@aol.com
Topic: 8268 Message: 8287

Hi Steve and Gordon
Pulled the 230 apart ,checked the pto,the shutter wheel and the sensors all seemed fine. pulled the main board and checked for bad solder joints ,found nothing,cleaned all the contacts and plugs with deoxit and even added star washers under the grounding screws...put it all back together and guess what ... STILL DIDN'T WORK... all the same problems as before. I received a e mail from Don, wb0ain, said to try a reset on the vfo???
I reread the manual and found the paragraph suggesting a reset.must have read the manual and the service manual a bunch of tomes and never picked it up. ....anyway the reset is done this way... turn the rig on with the vfo cabled to the 830,THEN PULL THE LINE CORD PLUG OUT ,the 230's, 120vac line cord, wait about 1-2 minutes and then plug it back in. results.. vf0 230 now works as new!!
One of the neatest things is the 230 has a lower tuning rate than the vfo on the 830 itself.much easier tune on ssb and fantastic on cw with tight filters. Iam going to check out lowering the tuning rate per the mod that we found and see how that works out.
Thankyou all for all the help and suggestions on this project,Its really nice to know we have somewhere to get help on the old kenwoods.
thanks
dale wt4t

-----Original Message-----
From: n6wk@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 18 Jul 2006 7:41 PM
Subject: [TS-520_820_530_830] Re: vfo230 problem and question

Dale,
Let us know what you find in there. Please !!

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Steve
> will give the fluid a try. Giong to get into it tonight.
> thanks dale
>
> -----Original Message-----
> From: w2imf@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 1:20 PM
> Subject: Re: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Don't know if it will work with your VFO, but Ronsonol lighter
fuel has been used for years to free gummed up camera adjustments. It

softens the hardened lubricant and then evaporates.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, July 18, 2006 1:00 PM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Hi Dale,
> yes, I found the Mod on the Web.
> It is about half way down the page:
> http://www.radiomods.co.nz/kenwood/kenwoodts830.html
>
> Looks like a fairly simple Mod.
> Oh yea, When you remove the dials on the VFo, pay close attention to
> their alignment.
>
> On the VFO Gears, I just realized that It might have a different gear
> assembly then I thought. Pull the cover and take a look. If there are
> gears (I'm fairly sure it does) might just try spraying them with
> some De-Oxit and let them Soak, then try working the PTO back and
> forth until it comes free. Once free, you can add a drop of sewing
> machine Oil to them.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, yash@ wrote:
> >
> > Gordon
> > sounds good to me ,will pull the cabinet and take a look would be
> great if the problem was a simple fix. Have you ever heard od the mod
> to slow the turn ratio of the vfo down?
> > thanks
> > dale
> >
> > -----Original Message-----
> > From: n6wk@
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tue, 18 Jul 2006 12:03 AM
> > Subject: [TS-520_820_530_830] Re: vfo230 problem and question
> >
> > Dale,
> > The Small (Idler Gear) is probably frozen on its shaft due to the
> > grease drying up. When that happens, the PTO appears to be
"Locked Up"
> > I have carefully removed the gear, cleaned it up and relubed the
> > assembly. when you get done, it works like a fine Swiss Watch !
> > This is NOT a difficult repair.

> > Gordon
> >
> > -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@>
wrote:
> > >
> > > Picked up a vfo-230 ,the unit is locked up as though the pto is
shot.
> > > The readout is also not 100%.All the switching functions
between the
> > > ts830 and the vfo seem to work ok. I don't have a good enought
bench
> > > to be able to service the vfo230,any body have any suggestions
> where I
> > > can send the vfo for service?
> > > Also I have read that there is a mod for the vfo230 to drop its
> > > tunning rate from 2o+ to 6.6 per revolution. anybody steer me to a
> > > place where I can find out more about this mod. Can it be done
> also to
> > > the pto on the ts-830 itself
> > > I sure would be greatful for any help on this.
> > > thanks
> > > dale wt4t
> > >
> >
> >
> > _____
> > Check out AOL.com today. Breaking news, video search, pictures,
> email and IM. All on demand. Always Free.
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> ----------
>
> Certified Virus Free.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date: 7/14/06
>
> [Non-text portions of this message have been removed]
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

[Non-text portions of this message have been removed]

8288. Re: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 18:13:16 UTC
From: Peter A Markavage
Topic: 8207 Message: 8288

Man, I gots to get one of those to sit side-by-side with my Silver
version.

Pete, wa2cwa

On Wed, 19 Jul 2006 04:14:50 -0500 "Walt Breining" <n9wb@...>
writes:
> So you have a Gold version? These are quite rare. The tank coils of
> these units were made of a special metal called accelloraium. It
> caused longer wavelength signals to travel more rapidly that the
> speed of light which allowed them to propagate more like shorter
> wavelength signals. These were only marketed for a 60 day period
> because the WARC committee quickly banned their use because of
> concerns of time distortion issues. However, you can secretly use
> one of these on 80 meters for DX. It will be particularly effective
> on 80 DX because accelloraium resonated signals will propagate like
> most 20 meter signals.
>
> Just keep a low profile when doing this.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, July 18, 2006 10:42 PM
> Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE
>
>
> I just Noticed,
> My Latest TS-830S project is actually a TS-830S GOLD version. It
> sure does work good. I have been having qso's tonite and it is FUN
> to
> use. Has the Optional CW filter in her also.
> So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
> Anyone have any suggestions ?? I LOVE repairing them, But I need to
> sell them to Purchase more to Fix !! I really don't want to use
> Ebay
> to sell my toys....
> 73,
> Gordon
> N6WK

8289. Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 18:48:36 UTC
From: Gordon
Topic: 8207 Message: 8289

And here I thought The reception was due to the great Receiver in the
TS-830 and the great Transmit signal along with my 7 Element Beam...

Wow, Had I only known.
Walt, Have you ever considered becoming a Snake Oil salesman ?
hi hi..
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> So you have a Gold version? These are quite rare. The tank coils of
these units were made of a special metal called accelloraium. It
caused longer wavelength signals to travel more rapidly that the speed
of light which allowed them to propagate more like shorter wavelength
signals. These were only marketed for a 60 day period because the WARC
committee quickly banned their use because of concerns of time
distortion issues. However, you can secretly use one of these on 80
meters for DX. It will be particularly effective on 80 DX because
accelloraium resonated signals will propagate like most 20 meter signals.
>
> Just keep a low profile when doing this.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, July 18, 2006 10:42 PM
> Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE
>
>
> I just Noticed,
> My Latest TS-830S project is actually a TS-830S GOLD version. It
> sure does work good. I have been having qso's tonite and it is FUN to
> use. Has the Optional CW filter in her also.
> So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
> Anyone have any suggestions ?? I LOVE repairing them, But I need to
> sell them to Purchase more to Fix !! I really don't want to use Ebay
> to sell my toys....
> 73,
> Gordon
> N6WK
>

>
>
> [Non-text portions of this message have been removed]
>

8290. Re: vfo230 problem and question... problem solved...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 18:53:49 UTC
From: Gordon
Topic: 8268 Message: 8290

Thanks for the Info Dale,
I was NOT aware of the reset possibility on that VFO.
Learned something new today...Cool !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Hi Steve and Gordon
> Pulled the 230 apart ,checked the pto,the shutter wheel and the sensors all seemed fine. pulled the main board and checked for bad solder joints ,found nothing,cleaned all the contacts and plugs with deoxit and even added star washers under the grounding screws...put it all back together and guess what ... STILL DIDN'T WORK... all the same problems as before. I received a e mail from Don, wb0ain, said to try a reset on the vfo???
> I reread the manual and found the paragraph suggesting a reset.must have read the manual and the service manual a bunch of tomes and never picked it up. ....anyway the reset is done this way... turn the rig on with the vfo cabled to the 830,THEN PULL THE LINE CORD PLUG OUT ,the 230's, 120vac line cord, wait about 1-2 minutes and then plug it back in. results.. vf0 230 now works as new!!
> One of the neatest things is the 230 has a lower tuning rate than the vfo on the 830 itself.much easier tune on ssb and fantastic on cw with tight filters. Iam going to check out lowering the tuning rate per the mod that we found and see how that works out.
> Thankyou all for all the help and suggestions on this project,Its really nice to know we have somewhere to get help on the old kenwoods.
> thanks
> dale wt4t
>
> -----Original Message-----
> From: n6wk@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 7:41 PM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Dale,
> Let us know what you find in there. Please !!
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, yash@ wrote:

> >
> > Steve
> > will give the fluid a try. Giong to get into it tonight.
> > thanks dale
> >
> > -----Original Message-----
> > From: w2imf@
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tue, 18 Jul 2006 1:20 PM
> > Subject: Re: [TS-520_820_530_830] Re: vfo230 problem and question
> >
> > Don't know if it will work with your VFO, but Ronsonol lighter
> fuel has been used for years to free gummed up camera adjustments. It
> softens the hardened lubricant and then evaporates.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, July 18, 2006 1:00 PM
> > Subject: [TS-520_820_530_830] Re: vfo230 problem and question
> >
> > Hi Dale,
> > yes, I found the Mod on the Web.
> > It is about half way down the page:
> > http://www.radiomods.co.nz/kenwood/kenwoodts830.html
> >
> > Looks like a fairly simple Mod.
> > Oh yea, When you remove the dials on the VFo, pay close attention to
> > their alignment.
> >
> > On the VFO Gears, I just realized that It might have a different gear
> > assembly then I thought. Pull the cover and take a look. If there are
> > gears (I'm fairly sure it does) might just try spraying them with
> > some De-Oxit and let them Soak, then try working the PTO back and
> > forth until it comes free. Once free, you can add a drop of sewing
> > machine Oil to them.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, yash@ wrote:
> > >
> > > Gordon
> > > sounds good to me ,will pull the cabinet and take a look would be
> > great if the problem was a simple fix. Have you ever heard od the mod
> > to slow the turn ratio of the vfo down?
> > > thanks
> > > dale
> > >

> > > -----Original Message-----
> > > From: n6wk@
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tue, 18 Jul 2006 12:03 AM
> > > Subject: [TS-520_820_530_830] Re: vfo230 problem and question
> > >
> > > Dale,
> > > The Small (Idler Gear) is probably frozen on its shaft due to the
> > > grease drying up. When that happens, the PTO appears to be
> "Locked Up"
> > > I have carefully removed the gear, cleaned it up and relubed the
> > > assembly. when you get done, it works like a fine Swiss Watch !
> > > This is NOT a difficult repair.
> > > Gordon
> > >
> > > -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@>
> wrote:
> > > >
> > > > Picked up a vfo-230 ,the unit is locked up as though the pto is
> shot.
> > > > The readout is also not 100%.All the switching functions
> between the
> > > > ts830 and the vfo seem to work ok. I don't have a good enought
> bench
> > > > to be able to service the vfo230,any body have any suggestions
> > where I
> > > > can send the vfo for service?
> > > > Also I have read that there is a mod for the vfo230 to drop its
> > > > tunning rate from 2o+ to 6.6 per revolution. anybody steer me
to a
> > > > place where I can find out more about this mod. Can it be done
> > also to
> > > > the pto on the ts-830 itself
> > > > I sure would be greatful for any help on this.
> > > > thanks
> > > > dale wt4t
> > > >
> > >
> > >
> > > _____
> > > Check out AOL.com today. Breaking news, video search, pictures,
> > email and IM. All on demand. Always Free.
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> > ----------
> >
> Certified Virus Free.

> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
7/14/06
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > _____
> > Check out AOL.com today. Breaking news, video search, pictures,
> email and IM. All on demand. Always Free.
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

8291. Re: vfo230 problem and question... problem solved...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 21:08:28 UTC
From: Gordon
Topic: 8268 Message: 8291

Dale, I wouold LOVE to get a Copy of the SERVICE manual for the VFO.
Do you have any way of doing a Copy of it?

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Hi Steve and Gordon
> Pulled the 230 apart ,checked the pto,the shutter wheel and the sensors all seemed fine. pulled the main board and checked for bad solder joints ,found nothing,cleaned all the contacts and plugs with deoxit and even added star washers under the grounding screws...put it all back together and guess what ... STILL DIDN'T WORK... all the same problems as before. I received a e mail from Don, wb0ain, said to try a reset on the vfo???
> I reread the manual and found the paragraph suggesting a reset.must have read the manual and the service manual a bunch of tomes and never picked it up. ....anyway the reset is done this way... turn the rig on with the vfo cabled to the 830,THEN PULL THE LINE CORD PLUG OUT ,the 230's, 120vac line cord, wait about 1-2 minutes and then plug it back in. results.. vf0 230 now works as new!!
> One of the neatest things is the 230 has a lower tuning rate than the vfo on the 830 itself.much easier tune on ssb and fantastic on cw with tight filters. Iam going to check out lowering the tuning rate per the mod that we found and see how that works out.
> Thankyou all for all the help and suggestions on this project,Its really nice to know we have somewhere to get help on the old kenwoods.
> thanks
> dale wt4t
>
> -----Original Message-----
> From: n6wk@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 18 Jul 2006 7:41 PM
> Subject: [TS-520_820_530_830] Re: vfo230 problem and question
>
> Dale,
> Let us know what you find in there. Please !!
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, yash@ wrote:
> >

> > Steve
> > will give the fluid a try. Giong to get into it tonight.
> > thanks dale
> >
> > -----Original Message-----
> > From: w2imf@
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tue, 18 Jul 2006 1:20 PM
> > Subject: Re: [TS-520_820_530_830] Re: vfo230 problem and question
> >
> > Don't know if it will work with your VFO, but Ronsonol lighter
> fuel has been used for years to free gummed up camera adjustments. It
> softens the hardened lubricant and then evaporates.
> >
> > Steve W4IMF
> >
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, July 18, 2006 1:00 PM
> > Subject: [TS-520_820_530_830] Re: vfo230 problem and question
> >
> > Hi Dale,
> > yes, I found the Mod on the Web.
> > It is about half way down the page:
> > http://www.radiomods.co.nz/kenwood/kenwoodts830.html
> >
> > Looks like a fairly simple Mod.
> > Oh yea, When you remove the dials on the VFo, pay close attention to
> > their alignment.
> >
> > On the VFO Gears, I just realized that It might have a different gear
> > assembly then I thought. Pull the cover and take a look. If there are
> > gears (I'm fairly sure it does) might just try spraying them with
> > some De-Oxit and let them Soak, then try working the PTO back and
> > forth until it comes free. Once free, you can add a drop of sewing
> > machine Oil to them.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, yash@ wrote:
> > >
> > > Gordon
> > > sounds good to me ,will pull the cabinet and take a look would be
> > great if the problem was a simple fix. Have you ever heard od the mod
> > to slow the turn ratio of the vfo down?
> > > thanks
> > > dale
> > >
> > > -----Original Message-----

> > > From: n6wk@
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tue, 18 Jul 2006 12:03 AM
> > > Subject: [TS-520_820_530_830] Re: vfo230 problem and question
> > >
> > > Dale,
> > > The Small (Idler Gear) is probably frozen on its shaft due to the
> > > grease drying up. When that happens, the PTO appears to be
> "Locked Up"
> > > I have carefully removed the gear, cleaned it up and relubed the
> > > assembly. when you get done, it works like a fine Swiss Watch !
> > > This is NOT a difficult repair.
> > > Gordon
> > >
> > > -- In TS-520_820_530_830@yahoogroups.com, "dalepavlicek" <yash@>
> wrote:
> > > >
> > > > Picked up a vfo-230 ,the unit is locked up as though the pto is
> shot.
> > > > The readout is also not 100%.All the switching functions
> between the
> > > > ts830 and the vfo seem to work ok. I don't have a good enought
> bench
> > > > to be able to service the vfo230,any body have any suggestions
> > where I
> > > > can send the vfo for service?
> > > > Also I have read that there is a mod for the vfo230 to drop its
> > > > tunning rate from 2o+ to 6.6 per revolution. anybody steer me
to a
> > > > place where I can find out more about this mod. Can it be done
> > also to
> > > > the pto on the ts-830 itself
> > > > I sure would be greatful for any help on this.
> > > > thanks
> > > > dale wt4t
> > > >
> > >
> > >
> > > _____
> > > Check out AOL.com today. Breaking news, video search, pictures,
> > email and IM. All on demand. Always Free.
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> > ----------
> >
> > Certified Virus Free.
> > Checked by AVG Free Edition.

> > Version: 7.1.394 / Virus Database: 268.10.1/389 - Release Date:
7/14/06
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > _____
> > Check out AOL.com today. Breaking news, video search, pictures,
> email and IM. All on demand. Always Free.
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> _____
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

8292. Re: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 12:47:25 UTC
From: Bill Scurlock
Topic: 8207 Message: 8292

Good Morning Walt.

You could always start another career as a science fiction writer - you're good.

73, Bill, K5GCW
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 19, 2006 4:14 AM
Subject: Re: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

So you have a Gold version? These are quite rare. The tank coils of these units were made of a special metal called accelloraium. It caused longer wavelength signals to travel more rapidly that the speed of light which allowed them to propagate more like shorter wavelength signals. These were only marketed for a 60 day period because the WARC committee quickly banned their use because of concerns of time distortion issues. However, you can secretly use one of these on 80 meters for DX. It will be particularly effective on 80 DX because accelloraium resonated signals will propagate like most 20 meter signals.

Just keep a low profile when doing this.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 18, 2006 10:42 PM
Subject: [TS-520_820_530_830] Re: My Newest Project..... UPDATE

I just Noticed,
My Latest TS-830S project is actually a TS-830S GOLD version. It
sure does work good. I have been having qso's tonite and it is FUN to
use. Has the Optional CW filter in her also.
So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
Anyone have any suggestions ?? I LOVE repairing them, But I need to
sell them to Purchase more to Fix !! I really don't want to use Ebay
to sell my toys....
73,
Gordon
N6WK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8293. accelerionium

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 21:58:15 UTC
From: Tim
Topic: 8293 Message: 8293

Found it in the Periodic Fable of the Elements. It is in the same group as storyionium and fabricationonium. All are MAN made.

8294. Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 13:26:00 UTC
From: w9dz
Topic: 8207 Message: 8294

Gordon,

I have positive experiences buying and selling on QTH dot COM. That is where I bought my 830S. Ads are free but I always send Scot a small donation whenever I sell something there. I sometimes use eBay but usually try QTH first.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:

> So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
> Anyone have any suggestions ?? I LOVE repairing them, But I need to
> sell them to Purchase more to Fix !! I really don't want to use Ebay
> to sell my toys....
> 73,
> Gordon
> N6WK
>

8295. acceleronium

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 21:53:55 UTC
From: Tim Harrington
Topic: 8295 Message: 8295

I found it on the Periodic Table of the Elements. Same group as storyonium and fabricationonium.

Apperently all three are MAN made,

73 73
Tim
kd2oe

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

8296. Re: [TS-520_820_530_830] acceleronium

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-19 23:31:18 UTC
From: Stephen Goldberg
Topic: 8295 Message: 8296

All in the group of unobtainium.

Steve W4IMF

----- Original Message -----
From: Tim Harrington
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 19, 2006 5:53 PM
Subject: [TS-520_820_530_830] acceleronium

I found it on the Periodic Table of the Elements. Same group as storyonium
and fabricationonium.

Apperently all three are MAN made,

73 73
Tim
kd2oe

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/391 - Release Date: 7/18/06

8297. Re: new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 01:41:35 UTC
From: Ellen R
Topic: 11 Message: 8297

Welcome to the group Scott, :)

Kenwood hybrids sure are cool. I first used them back in the mid 8u0s in college (the Univ. of WI hamclub had an 830S, and I briefly had a 520S). Nowadays, my Hybrid is a TS-820 (the first year production model of the TS-820S). I love the SSB audio, and the fact that receiver is so quiet.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hello to the group, joined today. My last hybrid rig was 5 years
> ago (Yaesu FT-101ZD). Ive missed it since I sold it. I've been
> looking for a good deal on a Kenwood TS520-S. I finally found one
> locally and got a great deal. It puts out about 120 watts on
> 40Meters and about 95 watts on 10 meters, I think I remember this is
> about right with 6146b's?? Very stable VFO it seems, better than the
> Yaesu. Anyway that's the deal with me briefly, cheers, scott.
>

8298. Re: [TS-520_820_530_830] new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 09:47:39 UTC
From: Walt Breining
Topic: 11 Message: 8298

Looks like you have a properly working 520. You'll like it.
Vy 73, Walt N9WB

----- Original Message -----
From: scott
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 19, 2006 8:57 AM
Subject: [TS-520_820_530_830] new member

Hello to the group, joined today. My last hybrid rig was 5 years
ago (Yaesu FT-101ZD). Ive missed it since I sold it. I've been
looking for a good deal on a Kenwood TS520-S. I finally found one
locally and got a great deal. It puts out about 120 watts on
40Meters and about 95 watts on 10 meters, I think I remember this is
about right with 6146b's?? Very stable VFO it seems, better than the
Yaesu. Anyway that's the deal with me briefly, cheers, scott.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.1/391 - Release Date: 7/18/06

[Non-text portions of this message have been removed]

8299. re:new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 12:47:28 UTC
From: scott
Topic: 11 Message: 8299

Thanks for the nice welcome. I'm having a lot of fun with the rig even with the poor band conditions on 40 meters this summer. Have received very good audio and signal reports, and I agree Ellen, that the receive has a very low noise floor, unlike my modern Icom rig which is hard to listen to under noisy conditions. Is there a list of serial numbers and production dates. I was trying to find out the year it was built. I've searched here and the web, with no success. Also, my rig is missing the side door control cover, does anyone have an idea where I can get one? I guess that enough questions and general rambling for now. 73's, scott.

8300. Re: My Newest Project..... UPDATE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 16:53:34 UTC
From: Ruben
Topic: 8207 Message: 8300

```
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> And here I thought The reception was due to the great Receiver in
the
> TS-830 and the great Transmit signal along with my 7 Element
Beam...
>
> Wow, Had I only known.
> Walt, Have you ever considered becoming a Snake Oil salesman ?
> hi hi..
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@>
> wrote:
> >
> > So you have a Gold version? These are quite rare. The tank coils
of
> these units were made of a special metal called accelloraium. It
> caused longer wavelength signals to travel more rapidly that the
speed
> of light which allowed them to propagate more like shorter
wavelength
> signals. These were only marketed for a 60 day period because the
WARC
> committee quickly banned their use because of concerns of time
> distortion issues. However, you can secretly use one of these on
80
> meters for DX. It will be particularly effective on 80 DX because
> accelloraium resonated signals will propagate like most 20 meter
signals.
> >
> > Just keep a low profile when doing this.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, July 18, 2006 10:42 PM
> > Subject: [TS-520_820_530_830] Re: My Newest Project.........
UPDATE
> >
> >
```

> > I just Noticed,
> > My Latest TS-830S project is actually a TS-830S GOLD version. It
> > sure does work good. I have been having qso's tonite and it is
FUN to
> > use. Has the Optional CW filter in her also.
> > So, what is the best way to sell these rigs? Here? Eham ? Ebay ?
> > Anyone have any suggestions ?? I LOVE repairing them, But I need
to
> > sell them to Purchase more to Fix !! I really don't want to use
Ebay
> > to sell my toys....
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
No wait it's the dylythium crystals in the final board that make it
a Gold Version ..... For a more detailed explanation try
www.k4eaa.com he has a good explanation on the differences on his
site....de ka2hhb

8301. FIRST POST! Can I Adjust the compression level with a pot on my TS-530S ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 14:04:20 UTC
From: wayfound2000
Topic: 8301 Message: 8301

This is my first post The 530 is a superb radio. I have now got an astatic teardrop mic but would like to have just a tad of compression on with it. The amount of compression seems to be fixed. Is there a pot or something to adjust the amount...
all the best folks - Kenwood audio Wins! Many thanks Pete

8302. TS-830 L41

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 17:25:11 UTC
From: Larry Shorthill
Topic: 8302 Message: 8302

I've got a real nice, clean (9 out of 10) TS-830 that I've been going over off and on for a year or more. One or more prior owners didn't seem to have a clue about the finals and how to bias them. The cathode resistors were OK, but one of the resistors in the screen circuit was an order of magnitude off -- they must have read the resistor color code wrong. Anyway, the Tx side seems to be working great now, but I can't hear a thing other than the calibrator. I've cleaned the relay contacts a couple of times, just to make sure, and I've fixed the bandswitch and timed it, etc. The only thing that seems to me to be a common thread here that is left is L41, the 1.5 Megahertz antenna coil.

One of the members recently mentioned that Burghardt had this listed and I went and placed an order last week (after verifying on their site that they had current inventory) only to get a message on Monday that they didn't have any in stock and it is (obviously) discontinued from Kenwood. SO now I'm looking for one of these from a list member with a parts rig. Please contact me off list if you happen to have this part available. Not sure I need it 100%, but if I don't I'll make it available back here.

73
Larry, KC7ULI

8303. Re: [TS-520_820_530_830] TS-830 L41

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 20:47:23 UTC
From: Kay Groß
Topic: 8302 Message: 8303

Hello Larry,

do you not have the possibility to use a second transceiver
or a rf generator to check the if stages?

73 Kay DL5OAQ

www.pbase.com/dl5oaq

----- Original Message -----
From: Larry Shorthill
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, July 20, 2006 7:25 PM
Subject: [TS-520_820_530_830] TS-830 L41

I've got a real nice, clean (9 out of 10) TS-830 that I've been going over off and on for a year or more. One or more prior owners didn't seem to have a clue about the finals and how to bias them. The cathode resistors were OK, but one of the resistors in the screen circuit was an order of magnitude off -- they must have read the resistor color code wrong. Anyway, the Tx side seems to be working great now, but I can't hear a thing other than the calibrator. I've cleaned the relay contacts a couple of times, just to make sure, and I've fixed the bandswitch and timed it, etc. The only thing that seems to me to be a common thread here that is left is L41, the 1.5 Megahertz antenna coil.

One of the members recently mentioned that Burghardt had this listed and I went and placed an order last week (after verifying on their site that they had current inventory) only to get a message on Monday that they didn't have any in stock and it is (obviously) discontinued from Kenwood. SO now I'm looking for one of these from a list member with a parts rig. Please contact me off list if you happen to have this part available. Not sure I need it 100%, but if I don't I'll make it available back here.

73
Larry, KC7ULI

[Non-text portions of this message have been removed]

8304. 2.8mhz filters - any experiences?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 22:36:57 UTC
From: wayfound2000
Topic: 8304 Message: 8304

I understand that some have fitted the 2.8mhz filter to the TS-530S?
Any experiences as to set up etc and results?
have kenwood will travel! All the best Pete

8305. Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-20 22:13:39 UTC
From: tad
Topic: 7799 Message: 8305

Well he may be good but if you go to his web site and read the
notice, I'd be a bit cautious.

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Jody,
> I just had my TS-830S completely gone through by Tim at TD
> communications. His prices were embarressing low and I had the
radio
> back within a week. Worked BETTER then New.
> Contact him at http://tdcommunications.net or via mail at
> TDcommservice at aol.com
> his number is 717-431-4089.
> You will really like Tim and his Serrvice.
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
> <jody.mills@> wrote:
> >
> > I was originally going to send my non-working 520s to Byron
> > Campbell, wa4geg, as I had once spoken to him about this radio
and
> > was going to send it in. But, things got busy and I never got
> > around to sending it in.
> >
> > Today I decided, dang it I'm going to get this done! So I went
to
> > his webpage to get his email address, only to find that he now
only
> > lists Yaesu equipment as equipment he accepts for repair. I've
> > emailed him to ask if he will, in fact, accept my ts-520s or if
he
> > has completely narrowed his focus to Yaesu products.
> >
> > While I wait for a reply, I thought I would ask you folks if you
> > know of any reputable repair facilities that will work on an old
> > Kenwood boat anchor. Repairing it myself is not an option, as I
am
> > just barely scratching the surface of amateur radio and
currently
> > know nothing of electronics. In time, of course, I intend to
remedy
> > that, but for right now my main concern is getting a budget-

> > conscious hf setup for my home up and running for when I pass
the
> > General later this year.
> >
> > Thanks!
> >
>

8306. TS 830S warc bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 01:21:38 UTC
From: George Copeland
Topic: 8306 Message: 8306

I just got a screamin' deal on a TS 830s. This radio looks like brand new, has been sitting in the box on a shelf for 10 or more years. Got the matching tuner in same condition too. I had to wiggle all the connectors to get everything working right. I have only tuned up into a dummy load so far, everything looks good... Except the warc bands. It has never been opened up. I am a little leary about this mod as the instructions in the manual are not quite as clear as I would like,and my sight is not quite what it used to be. If someone can give me this in a bit more detail I would appreciate it.
Thanx & 73
George W7ZVD

8307. Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 01:58:13 UTC
From: james27613
Topic: 7799 Message: 8307

hi jody,

what problem(s) are you having with your ts-520s ?

Not sure of your repair skills (I am no expert either !)
but with the help of the group you may get the radio
back on the air.

73 james ke4drn

8308. Re: TS 830S warc bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 12:28:50 UTC
From: Ellen R
Topic: 8306 Message: 8308

Hi George,

I did the WARC band mod to W9YT's (the Univ. of WI ham club) TS830S back in 1987. There are 2 ways to do it:

1. Clip the individual blocking diodes for each WARC band (recommended at the time, because we still didn't have 17m priveleges back in '87). Clipping a blocking diode for a specific WARC band, activates that WARC band.

2. There is one jumper wire that you can cut, that will activate ALL of the WARC bands at the same time.

I did it the second way. It was quick and easy, and frankly, at the time, I didn't feel like digging into the radio to find the diodes. The jumper wire is located on one of the boards, at the top of the radio. Be careful when you do it. where the jumper is located, is pretty crowded with other wires, cables, and components. Your manual should detail both of the mods mentioned above.

as a result of doing the above mod, I had a lot of fun operating on the 12m band in the spring and summer of 1987.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "George Copeland" <w7zvd@...> wrote:
>
> I just got a screamin' deal on a TS 830s. This radio looks like brand
> new, has been sitting in the box on a shelf for 10 or more years. Got
> the matching tuner in same condition too. I had to wiggle all the
> connectors to get everything working right. I have only tuned up into
> a dummy load so far, everything looks good... Except the warc bands.
> It has never been opened up. I am a little leary about this mod as
> the instructions in the manual are not quite as clear as I would
> like,and my sight is not quite what it used to be. If someone can
> give me this in a bit more detail I would appreciate it.
> Thanx & 73
> George W7ZVD
>

8309. Thanks for the info Walt

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 14:22:03 UTC
From: scott
Topic: 8309 Message: 8309

N9WB, Thanks for the mic information, scott.

8310. Re: TS-830 L41

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 16:48:41 UTC
From: Larry Shorthill
Topic: 8302 Message: 8310

Kay,

Yes, I have access to lots of stuff that would help me debug this. It's not been a high priority to get it running and I have been working a little at a time on it. I still have connectors to deoxit although I've gone over all the various switches and relays. I'm just anticipating that it's L41 and want to try to get one, or at least locate one in case that's the problem. I will have to do a full up alignment on this to see if that is the problem first, I guess, so my request might be somewhat premature.

Thanks for the response back and..

73
Larry, KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, Kay Groß <kaygross@...>
wrote:
>
> Hello Larry,
>
> do you not have the possibility to use a second transceiver
> or a rf generator to check the if stages?
>
> 73 Kay DL5OAQ
>
> www.pbase.com/dl5oaq
>
> ----- Original Message -----
> From: Larry Shorthill
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, July 20, 2006 7:25 PM
> Subject: [TS-520_820_530_830] TS-830 L41
>
>
> I've got a real nice, clean (9 out of 10) TS-830 that I've been
going
> over off and on for a year or more. One or more prior owners
didn't
> seem to have a clue about the finals and how to bias them. The
> cathode resistors were OK, but one of the resistors in the screen
> circuit was an order of magnitude off -- they must have read the
> resistor color code wrong. Anyway, the Tx side seems to be
working
> great now, but I can't hear a thing other than the calibrator.
I've

> cleaned the relay contacts a couple of times, just to make sure,
and
> I've fixed the bandswitch and timed it, etc. The only thing that
> seems to me to be a common thread here that is left is L41, the
1.5
> Megahertz antenna coil.
>
> One of the members recently mentioned that Burghardt had this
listed
> and I went and placed an order last week (after verifying on
their
> site that they had current inventory) only to get a message on
Monday
> that they didn't have any in stock and it is (obviously)
discontinued
> from Kenwood. SO now I'm looking for one of these from a list
member
> with a parts rig. Please contact me off list if you happen to
have
> this part available. Not sure I need it 100%, but if I don't I'll
> make it available back here.
>
> 73
> Larry, KC7ULI
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8311. Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 18:23:05 UTC
From: Gordon
Topic: 7799 Message: 8311

All I can tell you is, He did right by me, Fixed my radio Quickly and
correctly the first time at a very fair price.
Sounds to, me after reading his page, that he is Tired of being burnt
by some of his customers.
I think I'll contact him and see if I can buy some equipment from him
that someone didn't pay for. :-)

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "tad" <devoman1999@...> wrote:
>
> Well he may be good but if you go to his web site and read the
> notice, I'd be a bit cautious.
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Jody,
> > I just had my TS-830S completely gone through by Tim at TD
> > communications. His prices were embarressing low and I had the
> radio
> > back within a week. Worked BETTER then New.
> > Contact him at http://tdcommunications.net or via mail at
> > TDcommservice at aol.com
> > his number is 717-431-4089.
> > You will really like Tim and his Serrvice.
> > 73,
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
> > <jody.mills@> wrote:
> > >
> > > I was originally going to send my non-working 520s to Byron
> > > Campbell, wa4geg, as I had once spoken to him about this radio
> and
> > > was going to send it in. But, things got busy and I never got
> > > around to sending it in.
> > >
> > > Today I decided, dang it I'm going to get this done! So I went
> to
> > > his webpage to get his email address, only to find that he now

> only
> > > lists Yaesu equipment as equipment he accepts for repair. I've
> > > emailed him to ask if he will, in fact, accept my ts-520s or if
> he
> > > has completely narrowed his focus to Yaesu products.
> > >
> > > While I wait for a reply, I thought I would ask you folks if you
> > > know of any reputable repair facilities that will work on an old
> > > Kenwood boat anchor. Repairing it myself is not an option, as I
> am
> > > just barely scratching the surface of amateur radio and
> currently
> > > know nothing of electronics. In time, of course, I intend to
> remedy
> > > that, but for right now my main concern is getting a budget-
> > > conscious hf setup for my home up and running for when I pass
> the
> > > General later this year.
> > >
> > > Thanks!
> > >
> >
>

8312. Re: TS 830S warc bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 19:25:41 UTC
From: George W7ZVD
Topic: 8306 Message: 8312

According to the manual there are 2 wires to cut. If you got it with 1 I would like to know which one. According to the manual one of them is the center of a shielded wire, and that one makes me a little nervous.
73 de Geo

[Non-text portions of this message have been removed]

8313. Re: [TS-520_820_530_830] Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 20:32:52 UTC
From: Art
Topic: 7799 Message: 8313

Try K4EAA. Check his web site out. Very interesting.

73
Art
WB4MNK

Gordon wrote:
>
> All I can tell you is, He did right by me, Fixed my radio Quickly and
> correctly the first time at a very fair price.
> Sounds to, me after reading his page, that he is Tired of being burnt
> by some of his customers.
> I think I'll contact him and see if I can buy some equipment from him
> that someone didn't pay for. :-)
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "tad" <devoman1999@...>
> wrote:
> >
> > Well he may be good but if you go to his web site and read the
> > notice, I'd be a bit cautious.
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > Jody,
> > > I just had my TS-830S completely gone through by Tim at TD
> > > communications. His prices were embarressing low and I had the
> > radio
> > > back within a week. Worked BETTER then New.
> > > Contact him at http://tdcommunications.net
> <http://tdcommunications.net> or via mail at
> > > TDcommservice at aol.com
> > > his number is 717-431-4089.
> > > You will really like Tim and his Serrvice.
> > > 73,
> > > Gordon
> > > N6WK

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Jody Mills"
> > > <jody.mills@> wrote:
> > > >
> > > > I was originally going to send my non-working 520s to Byron
> > > > Campbell, wa4geg, as I had once spoken to him about this radio
> > and
> > > > was going to send it in. But, things got busy and I never got
> > > > around to sending it in.
> > > >
> > > > Today I decided, dang it I'm going to get this done! So I went
> > to
> > > > his webpage to get his email address, only to find that he now
> > only
> > > > lists Yaesu equipment as equipment he accepts for repair. I've
> > > > emailed him to ask if he will, in fact, accept my ts-520s or if
> > he
> > > > has completely narrowed his focus to Yaesu products.
> > > >
> > > > While I wait for a reply, I thought I would ask you folks if you
> > > > know of any reputable repair facilities that will work on an old
> > > > Kenwood boat anchor. Repairing it myself is not an option, as I
> > am
> > > > just barely scratching the surface of amateur radio and
> > currently
> > > > know nothing of electronics. In time, of course, I intend to
> > remedy
> > > > that, but for right now my main concern is getting a budget-
> > > > conscious hf setup for my home up and running for when I pass
> > the
> > > > General later this year.
> > > >
> > > > Thanks!
> > > >
> > >
> >
>
>
> ----------
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 7/21/2006
>

8314. Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 21:20:35 UTC
From: Gordon
Topic: 7799 Message: 8314

Hi Art,
Yes I know Ken. He is a GREAT guy. He has helped me solve a few
problems I have run into. Yep, He is a keeper also !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Art <wb4mnk@...> wrote:
>
> Try K4EAA. Check his web site out. Very interesting.
>
> 73
> Art
> WB4MNK
>
> Gordon wrote:
> >
> > All I can tell you is, He did right by me, Fixed my radio Quickly and
> > correctly the first time at a very fair price.
> > Sounds to, me after reading his page, that he is Tired of being burnt
> > by some of his customers.
> > I think I'll contact him and see if I can buy some equipment from him
> > that someone didn't pay for. :-)
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "tad" <devoman1999@>
> > wrote:
> > >
> > > Well he may be good but if you go to his web site and read the
> > > notice, I'd be a bit cautious.
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > > >
> > > > Jody,
> > > > I just had my TS-830S completely gone through by Tim at TD
> > > > communications. His prices were embarressing low and I had the
> > > radio
> > > > back within a week. Worked BETTER then New.

> > > > Contact him at http://tdcommunications.net
> > <http://tdcommunications.net> or via mail at
> > > > TDcommservice at aol.com
> > > > his number is 717-431-4089.
> > > > You will really like Tim and his Serrvice.
> > > > 73,
> > > > Gordon
> > > > N6WK
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Jody Mills"
> > > > <jody.mills@> wrote:
> > > > >
> > > > > I was originally going to send my non-working 520s to Byron
> > > > > Campbell, wa4geg, as I had once spoken to him about this radio
> > > and
> > > > > was going to send it in. But, things got busy and I never got
> > > > > around to sending it in.
> > > > >
> > > > > Today I decided, dang it I'm going to get this done! So I went
> > > to
> > > > > his webpage to get his email address, only to find that he now
> > > only
> > > > > lists Yaesu equipment as equipment he accepts for repair. I've
> > > > > emailed him to ask if he will, in fact, accept my ts-520s or if
> > > he
> > > > > has completely narrowed his focus to Yaesu products.
> > > > >
> > > > > While I wait for a reply, I thought I would ask you folks if you
> > > > > know of any reputable repair facilities that will work on an old
> > > > > Kenwood boat anchor. Repairing it myself is not an option, as I
> > > am
> > > > > just barely scratching the surface of amateur radio and
> > > currently
> > > > > know nothing of electronics. In time, of course, I intend to
> > > remedy
> > > > > that, but for right now my main concern is getting a budget-
> > > > > conscious hf setup for my home up and running for when I pass
> > > the
> > > > > General later this year.
> > > > >
> > > > > Thanks!
> > > > >
> > > > >
> > > >
> > >
> > >
> > >

> >

> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
7/21/2006
> >
>

8315. Re: [TS-520_820_530_830] Re: Looking for company that will refurbish non-working ts-520s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 21:17:02 UTC
From: Bill Leahy
Topic: 7799 Message: 8315

Burnout is a real problem in the repair industry; believe me!

I have been blessed with the best customers; over 20 years and about
1600 customers, only a handful have been a problem. Hams are the best!

Tim will get back in the saddle; we all do, eventually. You can't stay
away from it once you get going, hi!

73,

Bill K0ZL

On 7/21/06, Gordon <n6wk@...> wrote:
>
>
>
>
>
>
>
> All I can tell you is, He did right by me, Fixed my radio Quickly and
> correctly the first time at a very fair price.
> Sounds to, me after reading his page, that he is Tired of being burnt
> by some of his customers.
> I think I'll contact him and see if I can buy some equipment from him
> that someone didn't pay for. :-)
>
> 73,

8316. Re: [TS-520_820_530_830] Re: TS 830S warc bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-21 21:34:04 UTC
From: Bill Scurlock
Topic: 8306 Message: 8316

Hi George. I've been monitoring your comments of concern about modifying your TS-830S to transmit on the WARC bands. I think Ellen made the correct suggestion - just cut the one wire that opens up the transmitter for use on the WARC bands. Don't mess with the diodes because they are hard to get to in comparison.

The name of the signal wire you will cut is "TOF", and it is the wire going to Pin 1 of Connector 6 on the RF Board (X44-1360-00). This is a 3 pin connector, and Pin 1 is located at the corner or the board (actually an offset corner in about the middle of one side of the board). If you have the Service Manual, there is a board layout that shows all this detail on page 12.

If you are looking in the Instruction Manual, what may be confusing you is that they refer to both ends of the wire that needs to be cut. On page 27, para. 5.5, they give you both ends of the same wire (RF Unit X44-1360-00 connector 6 pin 1, and AF Unit X49-1140-00 connector 6 pin 4), and the name of the signal this wire carries is "TOF". This single wire can be cut anywhere between these two referenced connectors, and this "TX turnoff signal" will then be disabled. I find no reference to the shielded wire you mention.

Although this is a simple modification, there are all the usual safety precautions to take before you do it. Make sure the radio is unplugged from A.C. power for a while before you open it up, and then it is always best to use your voltmeter to check and confirm that ALL the voltages on the power supply board have decayed to zero. When I first worked on my 830, one of the bleeder resistors was open and there was several hundred volts sitting there ready to "zapp" me if I touched it. Just be careful.

After you choose the wire and cut it, I would suggest that you use tape or some means of insulating the two ends of the cut wire.

There are lots of more experienced guys on this reflector than me. If something I said needs to be clarified, I hope they will jump in and do so for your benefit.

Let us know how it works out for you. If you have any more questions, please let us know.

73, Bill, K5GCW
----- Original Message -----
From: George W7ZVD
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, July 21, 2006 2:25 PM
Subject: [TS-520_820_530_830] Re: TS 830S warc bands

According to the manual there are 2 wires to cut. If you got it with 1 I would like to know which one. According to the manual one of them is the center of a shielded wire, and that one makes me a little nervous.
73 de Geo

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8317. MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 01:54:07 UTC
From: belbert2002
Topic: 8317 Message: 8317

I want to disassembly my recently-purchased MC-50 Kenwood mike. How do I take the mike body (which contains the mike element) apart to clean and polish the front bezel? Thanks and 73, Bruce K6ZB

8318. Re: TS 830S warc bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 05:11:30 UTC
From: Ellen R
Topic: 8306 Message: 8318

Hi George,

Actually it might have been two (remember, I did this 19 years ago, and my present Kenwood hybrid is an 820), and yes one of them was in the middle of a wire bundle. I was VERY careful when I cut that one. I think I cut it as close to the plug or board it went into, as I could, since I didn't want to take the chance of cutting other wires in the bundle.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "George W7ZVD" <w7zvd@...> wrote:
>
> According to the manual there are 2 wires to cut. If you got it with 1 I would like to know which one. According to the manual one of them is the center of a shielded wire, and that one makes me a little nervous.
> 73 de Geo
>
> [Non-text portions of this message have been removed]
>

8319. Re: TS 830S warc bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 05:47:35 UTC
From: George W7ZVD
Topic: 8306 Message: 8319

Well, thanx guys. I got it opened up and on the air. Just made the first contact on it on 75, so it seems to work. What I did was pick the contact out of the connector and taped it off. This thing has great ears. Got one good report so far, I'm gonna go play now. Thanx again.
George W7ZVD

[Non-text portions of this message have been removed]

8320. Re: [TS-520_820_530_830] MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 07:33:39 UTC
From: Ken Winterling
Topic: 8317 Message: 8320

Bruce,

The top of an MC-50 or MC-60 unscrews from the body but the pieces are glued together at the factory. You need to apply heat, carefully, to the joint between the top and body. A heat gun works well but a hair dryer might substitute. I wear leather gloves so I can hold the mic while it is being heated and keep trying to unscrew the top as soon as possible.

Before you reattach the top you may want to experiment with placing a thin piece of black paper around the element to reduce the lows from these mics. Varying the amount you cover the "vents" will determine how much the tone changes.

Ken, WA2LBI

On 7/21/06, belbert2002 <k6zb@...> wrote:
> I want to disassembly my recently-purchased MC-50 Kenwood mike. How do
> I take the mike body (which contains the mike element) apart to clean
> and polish the front bezel? Thanks and 73, Bruce K6ZB
>

8321. Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 15:42:03 UTC
From: K4MT
Topic: 8321 Message: 8321

Anyone have a good sub for the 3SK35Y used in the TS-520. I can not even find a data sheet online for that device. I believe I have one in the RF section that is on the way out.

Thanks

Gary K4MT

8322. Re: MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 16:04:52 UTC
From: belbert2002
Topic: 8317 Message: 8322

Ken, excellent guidance, thanks. I'm also struggling with the coiled cable to the radio. It picks up hum and there's feedback with the VOX circuit. I suspect there's a bad solder joint in one of the connectors. Any suggestions?

73, Bruce, K6ZB (ex WA2IZV)

--- In TS-520_820_530_830@yahoogroups.com, "Ken Winterling" <wa2lbi@...> wrote:
>
> Bruce,
>
> The top of an MC-50 or MC-60 unscrews from the body but the pieces are
> glued together at the factory. You need to apply heat, carefully, to
> the joint between the top and body. A heat gun works well but a hair
> dryer might substitute. I wear leather gloves so I can hold the mic
> while it is being heated and keep trying to unscrew the top as soon as
> possible.
>
> Before you reattach the top you may want to experiment with placing a
> thin piece of black paper around the element to reduce the lows from
> these mics. Varying the amount you cover the "vents" will determine
> how much the tone changes.
>
> Ken, WA2LBI
>
> On 7/21/06, belbert2002 <k6zb@...> wrote:
> > I want to disassembly my recently-purchased MC-50 Kenwood mike. How do
> > I take the mike body (which contains the mike element) apart to clean
> > and polish the front bezel? Thanks and 73, Bruce K6ZB
> >
>

8323. Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 16:50:20 UTC
From: Gordon
Topic: 8321 Message: 8323

Gary,
according to my old TCG catalogue, 3SK35Y interchanges to a TCG-222
which is now a NTE-222

hope that helps,
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "K4MT" <k4mt@...> wrote:
>
> Anyone have a good sub for the 3SK35Y used in the TS-520. I can
> not even find a data sheet online for that device. I believe I
> have one in the RF section that is on the way out.
>
> Thanks
>
> Gary K4MT
>

8324. Re: Speech Processor in the TS-820 s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 22:11:22 UTC
From: jovem_cao
Topic: 7767 Message: 8324

Greetings everyone!

I was surfing the posts for a possible fix for the problems on my Ts-830s when I found this...

I have the following problems: No monitor sound (can hear anything I tx), and the speech processor doesnt work. It does pass tx audio, but the com level only acts as the mic gain pot. It doesnt add anything to the tx audio...

I am not sure if this happened to any other ts-830s user, but any tips on where the problems might be would be very good, since I am a newbie at these things... I can work a soldering iron and a multimeter... so... maybe I can sort this thing out with your help :)

73 de CT1IWG Sergio :)

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Re: Speech Processor in the TS-820 s
>
> Gordon:
> I think I understood that you got the sidetone working but the speech processor is still dead. You get transmit on SSB with the processor off but loose it when the processor is on no mater how high you turn the compression level control.
>
> The Processor circuit is on the IF board.
> This processor is a RF processor as it does the compressing at an RF frequency rather than a audio frequency. It does, not work in the IF but instead converts the audio to a sideband signal at a frequency of 455 kHz, compresses it as RF and then converts it back to audio. The theory is that by doing this, the 455 kHz filters will remove the harmonic distortion caused by hard limiting. When the processor is on, Q-22 amplifies the audio and drives a balanced modulator. For the balanced modulator to function it must be supplied a 455 kHz carrier signal. This comes from carrier oscillator Q-28 and Q-29. The 455 kHz carrier signal is on TP-1 and is applied to the balanced modulator through C-130. It is also supplied to a product detector, by way of C-133. After this process is complete, the product detector returns the signal to an audio frequency. If you have a scope available, please let me know. Otherwise measure the voltages on Q-28 and Q-29, and then Q-23, Q-24, and Q-25. This should be done with the radio in SSB transmit and the processor on.
>

> If the circuit is not getting the carrier oscillator signal, it will
not pass audio from input to output. Also check the small filters,
CF-1, CF-2, CF-3 for bad solder connections. Let me know what you find
and we can go from there.
>
> Vy 73, Walt N9WB
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, May 24, 2006 5:34 PM
> Subject: [TS-520_820_530_830] Re: Side Tone Circuit in TS-820S
>
>
> Hi Walt,
> Ok, I checked IF 1 Pin 6. When I key up on SSB with the Processor
> on, I get 9 volts on this wire and 0 volts when it is Off. Also, Yes,
> I can hear myself when The Minoitor is On .
>
> 73,
> Gordon
>
>
>
> [Non-text portions of this message have been removed]
>

8325. Re: [TS-520_820_530_830] Re: MC-50 disassembly

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 22:14:48 UTC
From: Bill Scurlock
Topic: 8317 Message: 8325

Bruce,

One thing to check is the wiring arrangement from the mic to the rig. Your instruction manual should have drawing that shows the PTT leads being separate from the Mic leads. The Mic "Hot" and Mic "ground" wires should be connected to pins 1 & 4 respectively, and the PTT wires should be connected to pins 2 & 3. There should be in interconnection between the Mic "ground" pin 4 (shield) and either of the PTT wires. While you are checking this out with the covers off the connections, you can check for the bad solder joints you are suspicious of. Good luck.

73, Bill, K5GCW
----- Original Message -----
From: belbert2002
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 22, 2006 11:04 AM
Subject: [TS-520_820_530_830] Re: MC-50 disassembly

Ken, excellent guidance, thanks. I'm also struggling with the coiled cable to the radio. It picks up hum and there's feedback with the VOX circuit. I suspect there's a bad solder joint in one of the connectors. Any suggestions?

73, Bruce, K6ZB (ex WA2IZV)

--- In TS-520_820_530_830@yahoogroups.com, "Ken Winterling" <wa2lbi@...> wrote:
>
> Bruce,
>
> The top of an MC-50 or MC-60 unscrews from the body but the pieces are
> glued together at the factory. You need to apply heat, carefully, to
> the joint between the top and body. A heat gun works well but a hair
> dryer might substitute. I wear leather gloves so I can hold the mic
> while it is being heated and keep trying to unscrew the top as soon as
> possible.
>
> Before you reattach the top you may want to experiment with placing a
> thin piece of black paper around the element to reduce the lows from
> these mics. Varying the amount you cover the "vents" will determine
> how much the tone changes.
>

> Ken, WA2LBI
>
> On 7/21/06, belbert2002 <k6zb@...> wrote:
> > I want to disassembly my recently-purchased MC-50 Kenwood mike.
How do
> > I take the mike body (which contains the mike element) apart to
clean
> > and polish the front bezel? Thanks and 73, Bruce K6ZB
> >
>

[Non-text portions of this message have been removed]

8326. 2.8 filters on ts-530?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 22:23:22 UTC
From: wayfound2000
Topic: 8326 Message: 8326

I understand that some have fitted the 2.8mhz filter to the TS-530S?
Any experiences as to set up etc and results?
have kenwood will travel! All the best Pete

8327. Ts-530 speech proc adjustment?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 22:24:46 UTC
From: wayfound2000
Topic: 8327 Message: 8327

This is my first post The 530 is a superb radio. I have now got an astatic teardrop mic but would like to have just a tad of compression on with it. The amount of compression seems to be fixed. Is there a pot or something to adjust the amount...
all the best folks - Kenwood audio Wins! Many thanks Pete

8328. Astatic teardrop

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-22 22:33:57 UTC
From: wayfound2000
Topic: 8328 Message: 8328

Hello folks- Just aquired an Astatic Teardrop 575-M6 ...Superb Audio on the 530S! Any one else tried one?
Pete

8329. Re: [TS-520_820_530_830] Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 01:04:27 UTC
From: Dennis Windle
Topic: 8321 Message: 8329

Gary;
The NTE-222 is a sub, but if you are interested I have some original 3SK35(Y) FET's.
Contact me off forum (windled@...) if interested.

D.Windle
----- Original Message -----
From: K4MT
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 22, 2006 11:42 AM
Subject: [TS-520_820_530_830] Substitute for 3SK35Y or 3SK35GR?

Anyone have a good sub for the 3SK35Y used in the TS-520. I can
not even find a data sheet online for that device. I believe I
have one in the RF section that is on the way out.

Thanks

Gary K4MT

[Non-text portions of this message have been removed]

8330. Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 11:05:43 UTC
From: K4MT
Topic: 8321 Message: 8330

--- In TS-520_820_530_830@yahoogroups.com, "Dennis
Windle" <windled@...> wrote:

Dennis:

Thanks for the info.

Is there a better device that can be substituted in the RF
sections of the radios? I could not find my old data books but I
believe those were rather noisy devices.

I wondered if a more modern part might give better performance
without having to mod the radio.

I will contact you later.

Thanks

Gary

>
> Gary;
> The NTE-222 is a sub, but if you are interested I
have some original 3SK35(Y) FET's. Contact me off forum
(windled@...) if interested.
>
> D.Windle
> ----- Original Message -----
> From: K4MT
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, July 22, 2006 11:42 AM
> Subject: [TS-520_820_530_830] Substitute for 3SK35Y or
3SK35GR?
>
>
> Anyone have a good sub for the 3SK35Y used in the TS-520. I
can
> not even find a data sheet online for that device. I believe
I
> have one in the RF section that is on the way out.
>
> Thanks
>
> Gary K4MT
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

8331. Re: [TS-520_820_530_830] Ts-530 speech proc adjustment?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 12:38:21 UTC
From: Stephen Goldberg
Topic: 8327 Message: 8331

With the screen switch in the off position and mode in USB and processor off, inject a 1500 Hz signal into the mike input and adjust the MIC gain for max reading on the ALC scale of the meter.

Then, with the same audio signal injected and without changing any of the preceding adjustments turn on the processor and adjust VR3 on the IF board for the same reading on the ALC meter as with the processor off.

I don't have an audio generator and use a steady whistle into the mike for a reference and watch the meter as I switch between off and on and then make a slight adjustment and try again until both match. Get good audio reports and reports of effective compression.

Hope this helps.

Steve W4IMF

----- Original Message -----
From: wayfound2000
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 22, 2006 6:24 PM
Subject: [TS-520_820_530_830] Ts-530 speech proc adjustment?

This is my first post The 530 is a superb radio. I have now got an astatic teardrop mic but would like to have just a tad of compression on with it. The amount of compression seems to be fixed. Is there a pot or something to adjust the amount...
all the best folks - Kenwood audio Wins! Many thanks Pete

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 7/21/06

8332. Re: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 13:07:26 UTC
From: Max Harelik
Topic: 8321 Message: 8332

Funny you should say that - I find that my old Kenwoods (530, 820) are a bunch quieter and more sensitive that my "modern" rigs (IC706, TS570D). But then, I really, really don't like the sound of the typical DSP radios. ; >)

73,
Max, K5OVW

K4MT wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Dennis
> Windle" <windled@...> wrote:
>
> Dennis:
>
> Thanks for the info.
>
> Is there a better device that can be substituted in the RF
> sections of the radios? I could not find my old data books but I
> believe those were rather noisy devices.
>
> I wondered if a more modern part might give better performance
> without having to mod the radio.
>
> I will contact you later.
>
> Thanks
>
> Gary
>
> >
> > Gary;
> > The NTE-222 is a sub, but if you are interested I
> have some original 3SK35(Y) FET's. Contact me off forum
> (windled@...) if interested.
> >
> > D.Windle
> > ----- Original Message -----
> > From: K4MT
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Saturday, July 22, 2006 11:42 AM
> > Subject: [TS-520_820_530_830] Substitute for 3SK35Y or
> 3SK35GR?
> >

> >
> > Anyone have a good sub for the 3SK35Y used in the TS-520. I
> can
> > not even find a data sheet online for that device. I believe
> I
> > have one in the RF section that is on the way out.
> >
> > Thanks
> >
> > Gary K4MT
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

8333. Re: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 15:54:29 UTC
From: N3DOK
Topic: 8321 Message: 8333

Hi, I search any Asian, Japan semiconductor sites that I could find. This part number 3SK35Y is used in both Kenwood and Yaesu radios. This part could have been a proprietary part, Made especially for one company for a specific use.

I ran into this problem,proprietary parts with the older Electra Bearcat Scanners. Find someone with a TS-520 junker.

Good Luck, Bob N3DOK

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 22, 2006 12:50 PM
Subject: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Gary,
according to my old TCG catalogue, 3SK35Y interchanges to a TCG-222
which is now a NTE-222

hope that helps,
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "K4MT" <k4mt@...> wrote:
>
> Anyone have a good sub for the 3SK35Y used in the TS-520. I can
> not even find a data sheet online for that device. I believe I
> have one in the RF section that is on the way out.
>
> Thanks
>
> Gary K4MT
>

[Non-text portions of this message have been removed]

8334. Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 16:40:44 UTC
From: Ellen R
Topic: 8321 Message: 8334

Hi Gary,

Perhaps ther is, but I think any improvement would only be incremental. The Kenwood hybrids have very sensitive receivers to begin with. Any subtitution would be mainly for availabilty resons.

With regards to receiver noise - the Kenwood hybrids are actually quite quiet compared to many moden rigs. When I first fired up my TS-820, I was reminded about just how quiet these rig can be. MY IC-703 Plus I used to have, and my present FT-897D, are oftentimes noisier than my TS-820 is under similar band conditions. This is due to 2 factors:

1. The Kenwood hybrids lack the phase noise that most sythesized rigs have.
2. Since the Kenwood hybrids used a tuned receiver front end (peaking the drive also serves to peak the receiver preselector), they do not have the "no tune" broadband receiver front ends modern radios have, and as a result, they better reject out of band signals that would increase the general noise and crud you'd hear in the receiver (the preselector acts in the same a way a 2.4 KHz filter does - it keeps out signals outside if its passband).

Designers of modern receiver front ends know about this, and have tried to deal with this issue, by using DSP (and roofing filters) with varrying degrees of success. You can crank up the DSP, and in many cases, completely eliminate your noise problem, but this comes at a cost - distortion of the signal you're trying to listen to (more so on SSB than CW, due to all of the audio frequencies present in an SSB signal), due to DSP sampling rates (and roofing filter algorithms for that matter) often not being up to the task of maintaining fidelity. Higher end radios try to deal with this by using higher sampling rates, newer software algorithms, and more processing power, but never seem to completely eliminate the distortion issues that heavy DSP (and roofing filter) use can cause. As a result, I typically avoid using DSP on my FT-897D. DSP seems to just be a band-aid fix for modern receivers.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "K4MT" <k4mt@...> wrote:
>
>
> Dennis:
>

> Thanks for the info.
>
> Is there a better device that can be substituted in the RF
> sections of the radios? I could not find my old data books but I
> believe those were rather noisy devices.
>
> I wondered if a more modern part might give better performance
> without having to mod the radio.
>
> I will contact you later.
>
> Thanks
>
> Gary
>
> >
> > Gary;
> > The NTE-222 is a sub, but if you are interested I
> have some original 3SK35(Y) FET's. Contact me off forum
> (windled@) if interested.
> >
> > D.Windle
> > ----- Original Message -----
> > From: K4MT
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, July 22, 2006 11:42 AM
> > Subject: [TS-520_820_530_830] Substitute for 3SK35Y or
> 3SK35GR?
> >
> >
> > Anyone have a good sub for the 3SK35Y used in the TS-520. I
> can
> > not even find a data sheet online for that device. I believe
> I
> > have one in the RF section that is on the way out.
> >
> > Thanks
> >
> > Gary K4MT
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

8335. Re: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 17:47:56 UTC
From: Peter A Markavage
Topic: 8321 Message: 8335

The 3SK48 is a lower noise, and slightly higher gain sub, for the 3SK35, 3SK40, and 3SK41. It makes a nice difference in your front end. However, finding them, and finding them at a reasonable price today in small quantities, can be a challenge. I replaced the 3SK40/41's in my TS-600, 6M transceiver, and it made a world of difference. However, front end alignment is necessary when making the replacement to take full advantage of their features.

Pete, wa2cwa

On Sun, 23 Jul 2006 11:05:43 -0000 "K4MT" <k4mt@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Dennis
> Windle" <windled@...> wrote:
>
> Dennis:
>
> Thanks for the info.
>
> Is there a better device that can be substituted in the RF
> sections of the radios? I could not find my old data books but I
> believe those were rather noisy devices.
>
> I wondered if a more modern part might give better performance
> without having to mod the radio.
>
> I will contact you later.
>
> Thanks
>
> Gary
>
> >
> > Gary;
> > The NTE-222 is a sub, but if you are interested I
> have some original 3SK35(Y) FET's. Contact me off forum
> (windled@...) if interested.
> >
> > D.Windle
> > ----- Original Message -----
> > From: K4MT
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, July 22, 2006 11:42 AM
> > Subject: [TS-520_820_530_830] Substitute for 3SK35Y or
> 3SK35GR?
> >

> >
> > Anyone have a good sub for the 3SK35Y used in the TS-520. I
> can
> > not even find a data sheet online for that device. I believe
> I
> > have one in the RF section that is on the way out.
> >
> > Thanks
> >
> > Gary K4MT

8336. RE: [TS-520_820_530_830] 2.8 filters on ts-530?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 20:05:27 UTC
From: g4jbr@netscape.net
Topic: 8326 Message: 8336

Hi I assume you mean 1.8 filter...I have one and never use it ...it seems that most of the intelligence is in the bass frequencies....no comparison to the effect that the 500cps filter has on CW
cheers pete g4jbr

"wayfound2000" <wayfound2000@...> wrote:

>I understand that some have fitted the 2.8mhz filter to the TS-530S?
>Any experiences as to set up etc and results?
>have kenwood will travel! All the best Pete
>
>
>
>
>
>
>
>

Switch to Netscape Internet Service.
As low as $9.95 a month -- Sign up today at http://isp.netscape.com/register

Netscape. Just the Net You Need.

New! Netscape Toolbar for Internet Explorer
Search from anywhere on the Web and block those annoying pop-ups.
Download now at http://channels.netscape.com/ns/search/install.jsp

8337. Anyone have a CW filter for a 520s available?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 20:14:04 UTC
From: Dave
Topic: 8321 Message: 8337

Our local radio club (www.yars.org) was recently given a TS-520s station (with SP-520 and MC-50!) from a ham who's no longer active in the hobby. It seems to be in good shape, and has reasonable output with original S2001 tubes. I'm in the process of cleaning it up and making it ready for a fund-raising sale.

The only thing missing is a CW filter, so if anyone has a spare available for a reasonable amount, please let me know off-list what your price is.

Tnx es 73,
- Dave
W6OT

8338. Re: Ts-530 speech proc adjustment?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 20:46:28 UTC
From: wayfound2000
Topic: 8327 Message: 8338

thats a big help . many thanks indeed!
Pete

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Goldberg"
<w2imf@...> wrote:
>
> With the screen switch in the off position and mode in USB and
processor
> off, inject a 1500 Hz signal into the mike input and adjust the
MIC gain for
> max reading on the ALC scale of the meter.
>
> Then, with the same audio signal injected and without changing any
of the
> preceding adjustments turn on the processor and adjust VR3 on the
IF board
> for the same reading on the ALC meter as with the processor off.
>
> I don't have an audio generator and use a steady whistle into the
mike for a
> reference and watch the meter as I switch between off and on and
then make a
> slight adjustment and try again until both match. Get good audio
reports
> and reports of effective compression.
>
> Hope this helps.
>
> Steve W4IMF
>
> ----- Original Message -----
> From: wayfound2000
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, July 22, 2006 6:24 PM
> Subject: [TS-520_820_530_830] Ts-530 speech proc adjustment?
>
>
> This is my first post The 530 is a superb radio. I have now got an
> astatic teardrop mic but would like to have just a tad of
compression
> on with it. The amount of compression seems to be fixed. Is there a
> pot or something to adjust the amount...
> all the best folks - Kenwood audio Wins! Many thanks Pete
>
>

>
>
>
>
> --
> Certified Virus Free.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
7/21/06
>

8339. Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 21:34:31 UTC
From: james27613
Topic: 8321 Message: 8339

hi gary,

http://www.nteinc.com/

has online substitution search feature.

73 james

8340. Re: [TS-520_820_530_830] 2.8 filters on ts-530?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-23 22:09:31 UTC
From: Max Harelik
Topic: 8326 Message: 8340

"it seems that most of the intelligence is in the bass frequencies" <snip>

Not true. Most of the energy is in the bass fqs - most of the intelligence is in the treble fqs. This from an ex-flightline mechanic with resultant lousy upper-end hearing, who now teaches elementary school. My constant demand is, "children, speak up, and look at me when you're talking to me!". ;>)

73,
Max, K5OVW

8341. TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 04:25:57 UTC
From: m_m_maxau
Topic: 8341 Message: 8341

Hey guys.

My Ts820S, that I am restoring has two strange issues:

1) no function in tune, cw or usb and the digital display shows that the pll is not locked (I guess).

It shows:

on all segments of 10m 29.000

On 21mhz, shows 29.000

0n 14mhz shows 19.000 etc

on 7 mhz shows 9.000

on 80 and 160 meters shows 9.000 and on WWv shows 19.000

When the radio is in lsb or fsk the readout works as it should and all is well until you tx:

here is problem number 2)

Receive is fine until you key the mike then receive drops (I guess about 40 db).

The only way to get it back to the level it originally was on is to do the following:

turn the power switch off for a second

then the readout reads (on lsb and fsk) about 400kc higher than when you first key up.

flick the band switch and the frequency jumps back to the correct one and receive is back to normal.

Weird or what?

I am guessing that the problems may be.

a) the connectors from the mode switch to the PLL board?

b) there is a bad cap or solder joint on the pll board?

c) the switch (es) are bad.

Any help would be appreciated.

I would also like to offer a big thank you to Charles on this group who helped with spares for my 820, good on you mate !!!!

73's

Anthony

8342. Re: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 04:29:08 UTC
From: Charles Mortimer
Topic: 8321 Message: 8342

hallo Ellen
never has a truer word been said I have a ts690 noisy contraception but
usable my ts820 will run rings around it on receive these are real radios
Charles vk6ycj

----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, July 24, 2006 12:40 AM
Subject: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

> Hi Gary,
>
> Perhaps ther is, but I think any improvement would only be
> incremental. The Kenwood hybrids have very sensitive receivers to
> begin with. Any subtitution would be mainly for availabilty resons.
>
> With regards to receiver noise - the Kenwood hybrids are actually
> quite quiet compared to many moden rigs. When I first fired up my TS-
> 820, I was reminded about just how quiet these rig can be. MY IC-703
> Plus I used to have, and my present FT-897D, are oftentimes noisier
> than my TS-820 is under similar band conditions. This is due to 2
> factors:
>
> 1. The Kenwood hybrids lack the phase noise that most sythesized
> rigs have.
> 2. Since the Kenwood hybrids used a tuned receiver front end
> (peaking the drive also serves to peak the receiver preselector),
> they do not have the "no tune" broadband receiver front ends modern
> radios have, and as a result, they better reject out of band signals
> that would increase the general noise and crud you'd hear in the
> receiver (the preselector acts in the same a way a 2.4 KHz filter
> does - it keeps out signals outside if its passband).
>
> Designers of modern receiver front ends know about this, and have
> tried to deal with this issue, by using DSP (and roofing filters)
> with varrying degrees of success. You can crank up the DSP, and in
> many cases, completely eliminate your noise problem, but this comes
> at a cost - distortion of the signal you're trying to listen to (more
> so on SSB than CW, due to all of the audio frequencies present in an
> SSB signal), due to DSP sampling rates (and roofing filter algorithms
> for that matter) often not being up to the task of maintaining
> fidelity. Higher end radios try to deal with this by using higher
> sampling rates, newer software algorithms, and more processing power,
> but never seem to completely eliminate the distortion issues that

> heavy DSP (and roofing filter) use can cause. As a result, I
> typically avoid using DSP on my FT-897D. DSP seems to just be a band-
> aid fix for modern receivers.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "K4MT" <k4mt@...> wrote:
>>
>>
>> Dennis:
>>
>> Thanks for the info.
>>
>> Is there a better device that can be substituted in the RF
>> sections of the radios? I could not find my old data books but I
>> believe those were rather noisy devices.
>>
>> I wondered if a more modern part might give better performance
>> without having to mod the radio.
>>
>> I will contact you later.
>>
>> Thanks
>>
>> Gary
>>
>> >
>> > Gary;
>> > The NTE-222 is a sub, but if you are interested I
>> have some original 3SK35(Y) FET's. Contact me off forum
>> (windled@) if interested.
>> >
>> > D.Windle
>> > ----- Original Message -----
>> > From: K4MT
>> > To: TS-520_820_530_830@yahoogroups.com
>> > Sent: Saturday, July 22, 2006 11:42 AM
>> > Subject: [TS-520_820_530_830] Substitute for 3SK35Y or
>> 3SK35GR?
>> >
>> >
>> > Anyone have a good sub for the 3SK35Y used in the TS-520. I
>> can
>> > not even find a data sheet online for that device. I believe
>> I
>> > have one in the RF section that is on the way out.
>> >
>> > Thanks
>> >

>> > Gary K4MT
>> >
>> >
>> >
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8343. AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 05:46:18 UTC
From: George Copeland
Topic: 6938 Message: 8343

Does anyone have the instruction manual for the AT-230 tuner? Maybe it could be uploaded into the files section. Would like to know the particulars about it. Still using the MFJ for now. Thanx George W7zvd

8344. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 05:58:33 UTC
From: Robert DELANAU
Topic: 6938 Message: 8344

George , pls contact me and i shall send you that manual off list 73 robert F5HLR
robert.delanau@...
----- Original Message -----
From: George Copeland
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 24, 2006 7:46 AM
Subject: [TS-520_820_530_830] AT-230

Does anyone have the instruction manual for the AT-230 tuner? Maybe
it could be uploaded into the files section. Would like to know the
particulars about it. Still using the MFJ for now. Thanx George W7zvd

[Non-text portions of this message have been removed]

8345. 2.8filters on ts530

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 07:44:58 UTC
From: g4jbr@netscape.net
Topic: 8345 Message: 8345

yes I expect you're right technically Max but to me unless there's close qrm the wide filter wins over the 1.8
Pete

_____
Switch to Netscape Internet Service.
As low as $9.95 a month -- Sign up today at http://isp.netscape.com/register

Netscape. Just the Net You Need.

New! Netscape Toolbar for Internet Explorer
Search from anywhere on the Web and block those annoying pop-ups.
Download now at http://channels.netscape.com/ns/search/install.jsp

8346. RE: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 07:46:00 UTC
From: Marc F1GSN
Topic: 8321 Message: 8346

This will do the job, with better performances than the original SK35-41 or the substitute NTE222 :

Motorola 3N211 Dual Gate VHF Mosfet Transistor TO-72 Metal Case

Easy to find on ebay at 4$ each.

http://cgi.ebay.com/3N211-Dual-Gate-VHF-Mosfet-Transistor-TO-72-Metal-Case_W0QQitemZ6619405458QQihZ012QQcategoryZ132QQssPageNameZWD1VQQrdZ1QQcmdZViewItem

I've bought some, 2 years ago, from them without any problems.

Marc
F1GSN

[Non-text portions of this message have been removed]

8347. RE: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 08:06:39 UTC
From: Marc F1GSN
Topic: 8321 Message: 8347

In TO 72 metal case :

40673
MFE201

In micro X case, with probably better performances :

BF 960
BF 961
BF 981
3SK88

Easy to find : 2 to 4 $ each

Marc

-----Message d'origine-----
De : TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]De la part de Marc F1GSN
Envoye : lundi 24 juillet 2006 09:46
A : TS-520_820_530_830@yahoogroups.com
Objet : RE: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

This will do the job, with better performances than the original SK35-41
or
the substitute NTE222 :

Motorola 3N211 Dual Gate VHF Mosfet Transistor TO-72 Metal Case

Easy to find on ebay at 4$ each.

http://cgi.ebay.com/3N211-Dual-Gate-VHF-Mosfet-Transistor-TO-72-Metal-Case
_W
0QQitemZ6619405458QQihZ012QQcategoryZ132QQssPageNameZWD1VQQrdZ1QQcmdZViewI
te
m

I've bought some, 2 years ago, from them without any problems.

Marc
F1GSN

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8348. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 09:47:16 UTC
From: Charles Mortimer
Topic: 8341 Message: 8348

hallo Anthony
Charles returning
thank you for those kind words really appreciated
Charles & rusty vk6ycj

----- Original Message -

From: "m_m_maxau" <agoodridge@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, July 24, 2006 12:25 PM
Subject: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

> Hey guys.
>
> My Ts820S, that I am restoring has two strange issues:
>
> 1) no function in tune, cw or usb and the digital display shows that
> the pll is not locked (I guess).
>
> It shows:
>
> on all segments of 10m 29.000
>
> On 21mhz, shows 29.000
>
> 0n 14mhz shows 19.000 etc
>
> on 7 mhz shows 9.000
>
> on 80 and 160 meters shows 9.000 and on WWv shows 19.000
>
> When the radio is in lsb or fsk the readout works as it should and
> all is well until you tx:
>
> here is problem number 2)
>
> Receive is fine until you key the mike then receive drops (I guess
> about 40 db).
>
> The only way to get it back to the level it originally was on is to
> do the following:
>
> turn the power switch off for a second
>
> then the readout reads (on lsb and fsk) about 400kc higher than when

> you first key up.
>
> flick the band switch and the frequency jumps back to the correct
> one and receive is back to normal.
>
> Weird or what?
>
> I am guessing that the problems may be.
>
> a) the connectors from the mode switch to the PLL board?
>
> b) there is a bad cap or solder joint on the pll board?
>
> c) the switch (es) are bad.
>
> Any help would be appreciated.
>
> I would also like to offer a big thank you to Charles on this group
> who helped with spares for my 820, good on you mate !!!!
>
> 73's
>
> Anthony
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

8349. Sub for 3SK35Y Thanks all!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 10:39:57 UTC
From: K4MT
Topic: 8349 Message: 8349

Thanks all for the help. I will comtinue the work on the alignment of my 520 and then decide how many I need.

I feel I may have some problem as the receiver noise with the antenna disconnected seems a little high. Not having listened to another 520 I have no reference but there is a rather noticeable hiss, more than I had on my Ten-Tec radios when I worked for them in engineering.

May have a bad noisy FET.

Thanks ALL

Gary

8350. Alignment tool Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 12:43:53 UTC
From: K4MT
Topic: 8350 Message: 8350

If you want to do some tweaking and don't have a good tone generator try NCH frequency generator software for your PC. Generates all types of tones through your sound card, to include sweep and multiple tones. I checked the output with a scope and frequency counter. Tones are fairly clean and on frequency. Output level is adjustable in DB.

Thought this might help someone who doesnt want to put out the bucks for a function generator. Best yet it is freeware!

Gary

8351. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 12:52:04 UTC
From: agoodridge
Topic: 8341 Message: 8351

G'day Charles

No problems at all, those word were more than deserved, you were a great help mate !

I am slowly getting the old girl up and running, I noticed over the weekend that the driver does not have the black cover, so that is another item I need to chase up, or maybe I can make one up.

It actually appears to hold the earth strap in place as well.

I think I am not too far away from getting her 100% operational.

Take care

73

Anthony
VK2FVIC

----- Original Message -----
From: Charles Mortimer
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 24, 2006 7:47 PM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

hallo Anthony
Charles returning
thank you for those kind words really appreciated
Charles & rusty vk6ycj

----- Original Message -

From: "m_m_maxau" <agoodridge@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, July 24, 2006 12:25 PM
Subject: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

> Hey guys.
>
> My Ts820S, that I am restoring has two strange issues:
>
> 1) no function in tune, cw or usb and the digital display shows that
> the pll is not locked (I guess).
>
> It shows:
>
> on all segments of 10m 29.000

>
> On 21mhz, shows 29.000
>
> 0n 14mhz shows 19.000 etc
>
> on 7 mhz shows 9.000
>
> on 80 and 160 meters shows 9.000 and on WWv shows 19.000
>
> When the radio is in lsb or fsk the readout works as it should and
> all is well until you tx:
>
> here is problem number 2)
>
> Receive is fine until you key the mike then receive drops (I guess
> about 40 db).
>
> The only way to get it back to the level it originally was on is to
> do the following:
>
> turn the power switch off for a second
>
> then the readout reads (on lsb and fsk) about 400kc higher than when
> you first key up.
>
> flick the band switch and the frequency jumps back to the correct
> one and receive is back to normal.
>
> Weird or what?
>
> I am guessing that the problems may be.
>
> a) the connectors from the mode switch to the PLL board?
>
> b) there is a bad cap or solder joint on the pll board?
>
> c) the switch (es) are bad.
>
> Any help would be appreciated.
>
> I would also like to offer a big thank you to Charles on this group
> who helped with spares for my 820, good on you mate !!!!
>
> 73's
>
> Anthony
>
>
>
>

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 21/07/2006

[Non-text portions of this message have been removed]

8352. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 14:15:38 UTC
From: Charles Mortimer
Topic: 8341 Message: 8352

Anthony I will have a look to see if I have one but I don't think so I
believe they can be operated with out it strap fits inside the tube that
fits over the 12by7 don't hold your breath on that part will give it
some thought how you can get over it
Charles
----- Original Message -----
From: "agoodridge" <agoodridge@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, July 24, 2006 8:52 PM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

> G'day Charles
>
> No problems at all, those word were more than deserved, you were a great
> help mate !
>
>
> I am slowly getting the old girl up and running, I noticed over the
> weekend that the driver does not have the black cover, so that is another
> item I need to chase up, or maybe I can make one up.
>
> It actually appears to hold the earth strap in place as well.
>
> I think I am not too far away from getting her 100% operational.
>
> Take care
>
> 73
>
> Anthony
> VK2FVIC
>
>
> ----- Original Message -----
> From: Charles Mortimer
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, July 24, 2006 7:47 PM
> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
> advice.
>
>
> hallo Anthony
> Charles returning
> thank you for those kind words really appreciated
> Charles & rusty vk6ycj

>
> ----- Original Message -
>
> ----
> From: "m_m_maxau" <agoodridge@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, July 24, 2006 12:25 PM
> Subject: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.
>
> > Hey guys.
> >
> > My Ts820S, that I am restoring has two strange issues:
> >
> > 1) no function in tune, cw or usb and the digital display shows that
> > the pll is not locked (I guess).
> >
> > It shows:
> >
> > on all segments of 10m 29.000
> >
> > On 21mhz, shows 29.000
> >
> > 0n 14mhz shows 19.000 etc
> >
> > on 7 mhz shows 9.000
> >
> > on 80 and 160 meters shows 9.000 and on WWv shows 19.000
> >
> > When the radio is in lsb or fsk the readout works as it should and
> > all is well until you tx:
> >
> > here is problem number 2)
> >
> > Receive is fine until you key the mike then receive drops (I guess
> > about 40 db).
> >
> > The only way to get it back to the level it originally was on is to
> > do the following:
> >
> > turn the power switch off for a second
> >
> > then the readout reads (on lsb and fsk) about 400kc higher than when
> > you first key up.
> >
> > flick the band switch and the frequency jumps back to the correct
> > one and receive is back to normal.
> >
> > Weird or what?
> >
> > I am guessing that the problems may be.

> >
> > a) the connectors from the mode switch to the PLL board?
> >
> > b) there is a bad cap or solder joint on the pll board?
> >
> > c) the switch (es) are bad.
> >
> > Any help would be appreciated.
> >
> > I would also like to offer a big thank you to Charles on this group
> > who helped with spares for my 820, good on you mate !!!!
> >
> > 73's
> >
> > Anthony
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
>
>
>
>
>
> --
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
> 21/07/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>

> Yahoo! Groups Links
>
>
>
>
>
>
>

8353. Re: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 14:35:23 UTC
From: Dave and Loraine
Topic: 8321 Message: 8353

Bonjour Marc,
The old mosfets in my TS-820S are noisy. Is the 3N211 low noise?
73
Dave
F4EYK

8354. Re: Anyone have a CW filter for a 520s available?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 14:55:01 UTC
From: David
Topic: 8321 Message: 8354

--- In TS-520_820_530_830@yahoogroups.com, Dave <dave@...> wrote:
>
> Our local radio club (www.yars.org) was recently given a TS-520s
station
> (with SP-520 and MC-50!) from a ham who's no longer active in the
> hobby. It seems to be in good shape, and has reasonable output
with
> original S2001 tubes. I'm in the process of cleaning it up and
making
> it ready for a fund-raising sale.
>
> The only thing missing is a CW filter, so if anyone has a spare
> available for a reasonable amount, please let me know off-list what
your
> price is.
>
> Tnx es 73,
> - Dave
> W6OT
>
I got mine on e-bay for $90+S&H. I probably paid too much for it,
but the filter is very useful for CW, and I'm still saving a bunch
of cash compared to getting a TS-2000. I think it is a sin for anyone
to remove the filters and sell them separately. The 520 is a great CW
rig with the filter.

8355. RE: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 15:02:46 UTC
From: Marc F1GSN
Topic: 8321 Message: 8355

Dave

3N211 has been designed for VHF. Should be OK on HF.

See the specs at :
http://www.datasheetcatalog.net/datasheets_pdf/3/N/2/1/3N211.shtml

Main advantage of the 3N211 is the TO 72 case : just plug it (instead of the 3SK35 or 3SK41) and that's all.

Of course, a complete alignment of the Rx is probably necessary.

73" Marc
F1GSN

Note : Je n'ai pas (encore) fait la modif sur mon 520S mais je pense que le gain en terme de bruit (et de gain sur 21 & 28) est très significatif.

-----Message d'origine-----
De : TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]De la part de Dave and Loraine
Envoyé : lundi 24 juillet 2006 16:35
À : TS-520_820_530_830@yahoogroups.com
Objet : Re: [TS-520_820_530_830] Re: Substitute for 3SK35Y or 3SK35GR?

Bonjour Marc,
The old mosfets in my TS-820S are noisy. Is the 3N211 low noise?
73
Dave
F4EYK

[Non-text portions of this message have been removed]

8356. TS-820 - No drive on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 15:46:17 UTC
From: Rob Campbell
Topic: 8356 Message: 8356

Help!

Now I've got an antenna up to cover more than just 80/40m I decided to see what was around on 10m at the weekend only to discover there's no drive on that band. None of the three band positions for 10m works, although I can receive there's no drive output at all.

All other bands are OK with at least 100W out key-down on CW.

Any ideas where I should start looking?

Rob (GM6OQN)

8357. Re: [TS-520_820_530_830] Sub for 3SK35Y Thanks all!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 16:41:29 UTC
From: Peter A Markavage
Topic: 8349 Message: 8357

A decent scope can help track down the "hiss". The last several rigs that
I worked on that had some type of "hiss" component were traced to issues
in the audio stages of the receiver section.

Pete, wa2cwa

On Mon, 24 Jul 2006 10:39:57 -0000 "K4MT" <k4mt@...> writes:
> Thanks all for the help. I will comtinue the work on the
> alignment of my 520 and then decide how many I need.
>
> I feel I may have some problem as the receiver noise with the
> antenna disconnected seems a little high. Not having listened
> to another 520 I have no reference but there is a rather
> noticeable hiss, more than I had on my Ten-Tec radios when I
> worked for them in engineering.
>
> May have a bad noisy FET.
>
> Thanks ALL
>
> Gary

8358. TS830m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 20:19:40 UTC
From: budgiebob2005
Topic: 8358 Message: 8358

To ALL my last post spoke about play in tuningknob and whilst this does not affect tunning it gived a poor feel . i had a number off replies but due to my error the advice given was for ts820 and this does not appear to apply to my TS830m ie I hve noo bearing ring etc . .looking carefully the play is due to movement off the brass shaft the knob fits on. this appears to be fixed by circlip and will allow fractional movement when knob raised. it looks as if it should be ok if a firm fix was availiable . presumably there is play in the btm hole! . any thoughts on this Ts830 m sorry!!Bob G8acq

8359. Re: AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 20:32:18 UTC
From: james27613
Topic: 6938 Message: 8359

hi george,

http://www.n6wk.com/kenwood/

many manuals in pdf no charge to d/l

73 james ke4drn

8360. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 20:42:55 UTC
From: Larry Shorthill
Topic: 8207 Message: 8360

David,

Do you remember the number of turns you counted on the input and output sides of this transformer? Bill the list owner has wondered on a few occasions if anyone has thoughts about making a replacement for this part, which is, I think, the same as L41 on the TS-830, etc. It seems to be a weak link and without replacement parts we're left to rewinding these. Also, if you can, comment on the guage wire used. If you don't have the guage, can you measure the diameter with a micrometer or even a caliper.

Also, if anyone has a loose L41 coil for the 830 can you possibly measure the input and output inductances. This can help identify a suitable core substitute.

Many thanks.

Larry
KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, "David Franklin" <dfranklyn@...> wrote:
>
> Gordon,
>
> I had a similar problem with my TS-820. L8 on the coil pack was burned
> shorted. It had the same symptoms, all four leads were shorted. It is in
> the RX antenna path therefore it caused the sensitivity to be very low.
>
> I was able to unwind the coil very carefully counting the turns and rewind
> using wire from a coil on a stripped Hallicrafters S-40 chassis.
>
> Might be worth a try if you cannot find a replacement.
>
> Good Luck,
> Dave
> ki4jsn
>
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>

> Sent: Wednesday, July 12, 2006 5:27 PM
> Subject: [TS-520_820_530_830] Re: My Newest Project.
>
>
> Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
> out. All 4 wire terminals have continuity with each other and it
> smells Burnt.
> Boy, That's some small wire to try and rewind..hi hi..
> I'm hoping someone has one they will sell me.
>
> Gordon
>

8361. Re: [TS-520_820_530_830] TS-820 - No drive on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 21:08:18 UTC
From: Tibor (Tibi) Zentai
Topic: 8356 Message: 8361

Hello Rob,

This was an unlucky weekend to me either with the same problem. Mine is a TS-530SP but the problem is common technically. Your rotary switch (wafer switch) may cause it and the coupling is also suspect in the PA cage.
A good maintenance would do with cleaning and using contact spray. In addition check coupling whether it is not cracked or flipperty-flopperty.

Do clean PA cage from dust if any inside.

Take care of high voltage rest in caps!

********** REPLY SEPARATOR **********

On 2006.07.24. at 15:46 Rob Campbell wrote:

>Help!
>
>Now I've got an antenna up to cover more than just 80/40m I decided to
>see what was around on 10m at the weekend only to discover there's no
>drive on that band. None of the three band positions for 10m works,
>although I can receive there's no drive output at all.
>
>All other bands are OK with at least 100W out key-down on CW.
>
>Any ideas where I should start looking?
>
>Rob (GM6OQN)
>
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

8362. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 21:50:40 UTC
From: agoodridge
Topic: 8341 Message: 8362

G'day Charles

Thanks mate

I am not too sure what the cover actually does, but I thought it must have some relevance.

Thanks again

73
Anthony
----- Original Message -----
From: Charles Mortimer
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 25, 2006 12:15 AM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Anthony I will have a look to see if I have one but I don't think so I
believe they can be operated with out it strap fits inside the tube that
fits over the 12by7 don't hold your breath on that part will give it
some thought how you can get over it
Charles
----- Original Message -----
From: "agoodridge" <agoodridge@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, July 24, 2006 8:52 PM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

> G'day Charles
>
> No problems at all, those word were more than deserved, you were a great
> help mate !
>
>
> I am slowly getting the old girl up and running, I noticed over the
> weekend that the driver does not have the black cover, so that is another
> item I need to chase up, or maybe I can make one up.
>
> It actually appears to hold the earth strap in place as well.
>
> I think I am not too far away from getting her 100% operational.
>
> Take care
>
> 73
>
> Anthony

> VK2FVIC
>
>
> ----- Original Message -----
> From: Charles Mortimer
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, July 24, 2006 7:47 PM
> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
> advice.
>
>
> hallo Anthony
> Charles returning
> thank you for those kind words really appreciated
> Charles & rusty vk6ycj
>
> ----- Original Message -
>
> ----
> From: "m_m_maxau" <agoodridge@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, July 24, 2006 12:25 PM
> Subject: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.
>
> > Hey guys.
> >
> > My Ts820S, that I am restoring has two strange issues:
> >
> > 1) no function in tune, cw or usb and the digital display shows that
> > the pll is not locked (I guess).
> >
> > It shows:
> >
> > on all segments of 10m 29.000
> >
> > On 21mhz, shows 29.000
> >
> > 0n 14mhz shows 19.000 etc
> >
> > on 7 mhz shows 9.000
> >
> > on 80 and 160 meters shows 9.000 and on WWv shows 19.000
> >
> > When the radio is in lsb or fsk the readout works as it should and
> > all is well until you tx:
> >
> > here is problem number 2)
> >
> > Receive is fine until you key the mike then receive drops (I guess
> > about 40 db).

> >
> > The only way to get it back to the level it originally was on is to
> > do the following:
> >
> > turn the power switch off for a second
> >
> > then the readout reads (on lsb and fsk) about 400kc higher than when
> > you first key up.
> >
> > flick the band switch and the frequency jumps back to the correct
> > one and receive is back to normal.
> >
> > Weird or what?
> >
> > I am guessing that the problems may be.
> >
> > a) the connectors from the mode switch to the PLL board?
> >
> > b) there is a bad cap or solder joint on the pll board?
> >
> > c) the switch (es) are bad.
> >
> > Any help would be appreciated.
> >
> > I would also like to offer a big thank you to Charles on this group
> > who helped with spares for my 820, good on you mate !!!!
> >
> > 73's
> >
> > Anthony
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
>
>
>
>
>

> --
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
> 21/07/2006
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 21/07/2006

[Non-text portions of this message have been removed]

8363. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 21:19:19 UTC
From: N3DOK
Topic: 6938 Message: 8363

Hi George, The web site below has a pdf copy of the AT-230.
http://www.n6wk.com/kenwood/
AT-230_Manual.pdf 1001k

----- Original Message -----
From: George Copeland
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 24, 2006 1:46 AM
Subject: [TS-520_820_530_830] AT-230

Does anyone have the instruction manual for the AT-230 tuner? Maybe
it could be uploaded into the files section. Would like to know the
particulars about it. Still using the MFJ for now. Thanx George W7zvd

[Non-text portions of this message have been removed]

8364. Re: TS-820 - No drive on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 21:59:41 UTC
From: Rob Campbell
Topic: 8356 Message: 8364

Hi, Tibi.

Many thanks for your advice. I'll have a look but it will have to wait till the weekend before I can spend much time on it. I'll need to make up a shunt to discharge the HT caps first though. What's recommended?

The wafer switch contacts sound likely now I've had time to think - given the low activity on 10m these positions probably haven't been used in years (I've had the radio 2 years and have never used 10m!). I've seen a contact cleaner recommended on this group but wonder if it's available in the UK and if not what a good substitute might be?

Rob (GM6OQN)

--- In TS-520_820_530_830@yahoogroups.com, "Tibor (Tibi) Zentai" <ha2mn@...> wrote:
>
> Hello Rob,
>
> This was an unlucky weekend to me either with the same problem. Mine is a
> TS-530SP but the problem is common technically. Your rotary switch (wafer
> switch) may cause it and the coupling is also suspect in the PA cage.
> A good maintenance would do with cleaning and using contact spray. In
> addition check coupling whether it is not cracked or flipperty-flopperty.
>
> Do clean PA cage from dust if any inside.
>
> Take care of high voltage rest in caps!
>
> ********** REPLY SEPARATOR **********
>
> On 2006.07.24. at 15:46 Rob Campbell wrote:
>
> >Help!
> >
> >Now I've got an antenna up to cover more than just 80/40m I decided to
> >see what was around on 10m at the weekend only to discover there's no
> >drive on that band. None of the three band positions for 10m

works,
> >although I can receive there's no drive output at all.
> >
> >All other bands are OK with at least 100W out key-down on CW.
> >
> >Any ideas where I should start looking?
> >
> >Rob (GM6OQN)
> >
> >
> >
> >
> >
> >
> >
> >
> >Yahoo! Groups Links
> >
> >
> >
>
>
> 73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX
>
> Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
> http://www.spar-hams.org
>

8365. Re: [TS-520_820_530_830] Re: TS-820 - No drive on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-24 23:39:53 UTC
From: Tibor (Tibi) Zentai
Topic: 8356 Message: 8365

Hi Rob,

Sure, you have to devote time for doing the job. I prepare myself to do a full maintenance after RSGB IOTA. Generally every half year it is advised to do so in accordance with the manual.

Well, just disconnect the rig from mains. When PA cage is open, take a piece of cable with clips on both ends. First connect to the ground (firmly to the chassis), then to the anode choke. There may be a spark, but do not worry, caps are discharging. Keep this short circuit until you are working in the PA cage.

The coupling is of plastic and synchronies the band switch system with the arresting device in the PA cage. Loosing synchrony means loosing several (or all) bands. If it is cracked and you cannot fix it you can replace it with the coupling of the Load if it was the same type. The coupling in the cage transfers the force when you change band while the coupling of the Load is just a coupler of a variable cap where there is no mechanical force.

It would be the worse case.

The easier case is dirt and oxidation on wafer switch.

If you choose one contact cleaner just read the product description. If it is offered for electronic use, it will do. We have different brands in both Europe and US. Buy what you can find proper at your local dealer.

My TS-530SP sometimes tricks me with dead 7 MHz, 24 MHz and now with 28 MHz even though I have worked much on 10 m during this ES season. Great radios are the KNWD hybrids but as vintage equipment they need special care, hi.

Hope you get back 10 m. Let me know any further development.

Tibi, HA2MN

********** REPLY SEPARATOR **********

On 2006.07.24. at 21:59 Rob Campbell wrote:

>Hi, Tibi.
>
>Many thanks for your advice. I'll have a look but it will have to
>wait till the weekend before I can spend much time on it. I'll need
>to make up a shunt to discharge the HT caps first though. What's
>recommended?
>
>The wafer switch contacts sound likely now I've had time to think -

>given the low activity on 10m these positions probably haven't been
>used in years (I've had the radio 2 years and have never used 10m!).
>I've seen a contact cleaner recommended on this group but wonder if
>it's available in the UK and if not what a good substitute might be?
>
>Rob (GM6OQN)
>
>--- In TS-520_820_530_830@yahoogroups.com, "Tibor (Tibi) Zentai"
><ha2mn@...> wrote:
>>
>> Hello Rob,
>>
>> This was an unlucky weekend to me either with the same problem.
>Mine is a
>> TS-530SP but the problem is common technically. Your rotary switch
>(wafer
>> switch) may cause it and the coupling is also suspect in the PA
>cage.
>> A good maintenance would do with cleaning and using contact spray.
>In
>> addition check coupling whether it is not cracked or flipperty-
>flopperty.
>>
>> Do clean PA cage from dust if any inside.
>>
>> Take care of high voltage rest in caps!
>>
>> ********** REPLY SEPARATOR **********
>>
>> On 2006.07.24. at 15:46 Rob Campbell wrote:
>>
>> >Help!
>> >
>> >Now I've got an antenna up to cover more than just 80/40m I
>decided to
>> >see what was around on 10m at the weekend only to discover
>there's no
>> >drive on that band. None of the three band positions for 10m
>works,
>> >although I can receive there's no drive output at all.
>> >
>> >All other bands are OK with at least 100W out key-down on CW.
>> >
>> >Any ideas where I should start looking?
>> >
>> >Rob (GM6OQN)
>> >
>> >
>> >
>> >

>> >
>> >
>> >
>> >
>> >Yahoo! Groups Links
>> >
>> >
>> >
>>
>>
>> 73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX
>>
>> Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
>> http://www.spar-hams.org
>>
>
>
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

8366. RE: [TS-520_820_530_830] Re: TS-820 - No drive on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 06:53:00 UTC
From: Richard Harris
Topic: 8356 Message: 8366

Rob,

DeOxit is the recommended switch/cleaner lubricant. In the UK it is available from www.stoneaudio.co.uk/default.asp?redirect=http://www.stoneaudio.co.uk/stoneaudio/products/details.asp?product=311. I recently bought an aerosol can - it is expensive, with postage about £18 (for US readers who would like a comparison, that's about $34).

The bandchange switch of my TS530SP was intermittent on a couple of bands, so I sprayed the wafers and the problem has not returned. I had previously used a Servisol switch cleaner from Maplin.. Time will tell whether the DeOxit has solved the problem longer term.

You might also consider changing the 12BY7A. I had no ALC indication on 10m, but a new driver fixed the problem. Waters and Stanton sell the 12BY7A. Their web site shows a photograph of an NEC branded tube. I bought two on the strength of this but the ones supplied were a brand I did not recognise, although made in the USA. The one I fitted worked fine with plenty of drive on 10m.

73s,

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Rob Campbell
Sent: 24 July 2006 23:00
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-820 - No drive on 10m

Hi, Tibi.

Many thanks for your advice. I'll have a look but it will have to
wait till the weekend before I can spend much time on it. I'll need
to make up a shunt to discharge the HT caps first though. What's
recommended?

The wafer switch contacts sound likely now I've had time to think -
given the low activity on 10m these positions probably haven't been
used in years (I've had the radio 2 years and have never used 10m!).
I've seen a contact cleaner recommended on this group but wonder if
it's available in the UK and if not what a good substitute might be?

Rob (GM6OQN)

--- In TS-520_820_530_830@yahoogroups.com, "Tibor (Tibi) Zentai"
<ha2mn@...> wrote:
>
> Hello Rob,
>

> This was an unlucky weekend to me either with the same problem.
Mine is a
> TS-530SP but the problem is common technically. Your rotary switch
(wafer
> switch) may cause it and the coupling is also suspect in the PA
cage.
> A good maintenance would do with cleaning and using contact spray.
In
> addition check coupling whether it is not cracked or flipperty-
flopperty.
>
> Do clean PA cage from dust if any inside.
>
> Take care of high voltage rest in caps!
>
> ********** REPLY SEPARATOR **********
>
> On 2006.07.24. at 15:46 Rob Campbell wrote:
>
> >Help!
> >
> >Now I've got an antenna up to cover more than just 80/40m I
decided to
> >see what was around on 10m at the weekend only to discover
there's no
> >drive on that band. None of the three band positions for 10m
works,
> >although I can receive there's no drive output at all.
> >
> >All other bands are OK with at least 100W out key-down on CW.
> >
> >Any ideas where I should start looking?
> >
> >Rob (GM6OQN)
> >
> >
> >
> >
> >
> >
> >
> >
> >Yahoo! Groups Links
> >
> >
> >
>
>
> 73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX
>

> Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
> http://www.spar-hams.org
>

[Non-text portions of this message have been removed]

8367. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 13:06:22 UTC
From: Bill Leahy
Topic: 8341 Message: 8367

I leave these off; it helps keep the 12BY7 cool, and I have never observed any problems with the driver being unshielded; any tubes that I have used that were a little "wild" either calmed down when I removed the shield, or stayed the same; changing the tube would do the trick in that case.

By the way guys when you are buying driver tubes, always get a couple or five, preferably of different manufacturers; sometimes a particular radio does not like a particular tube, as evidenced by jumps in plate current or ALC reading when turning the drive or preselector tuning from one end of travel to the other. In this case, just change the driver until you find one that is stable. Save the others for someone else's rig, don't throw them out!

73,

Bill K0ZL

On 7/24/06, agoodridge <agoodridge@...> wrote:
>
> G'day Charles
>
> Thanks mate
>
> I am not too sure what the cover actually does, but I thought it must have
> some relevance.
>
> Thanks again
>
> 73
> Anthony
>
> ----- Original Message -----
> From: Charles Mortimer
> To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, July 25, 2006 12:15 AM
> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
> advice.
>
> Anthony I will have a look to see if I have one but I don't think so I
> believe they can be operated with out it strap fits inside the tube that
> fits over the 12by7 don't hold your breath on that part will give it
> some thought how you can get over it
> Charles
> ----- Original Message -----
> From: "agoodridge" <agoodridge@... <agoodridge%40bigpond.com>>
> To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>

> >
> Sent: Monday, July 24, 2006 8:52 PM
> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
> advice.
>
> > G'day Charles
> >
> > No problems at all, those word were more than deserved, you were a great
>
> > help mate !
> >
> >
> > I am slowly getting the old girl up and running, I noticed over the
> > weekend that the driver does not have the black cover, so that is
> another
> > item I need to chase up, or maybe I can make one up.
> >
> > It actually appears to hold the earth strap in place as well.
> >
> > I think I am not too far away from getting her 100% operational.
> >
> > Take care
> >
> > 73
> >
> > Anthony
> > VK2FVIC
> >
> >
> > ----- Original Message -----
> > From: Charles Mortimer
> > To: TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> > Sent: Monday, July 24, 2006 7:47 PM
> > Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
> > advice.
> >
> >
> > hallo Anthony
> > Charles returning
> > thank you for those kind words really appreciated
> > Charles & rusty vk6ycj
> >
> > ----- Original Message -
> >
> > ----
> > From: "m_m_maxau" <agoodridge@... <agoodridge%40bigpond.com>>
> > To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> >
> > Sent: Monday, July 24, 2006 12:25 PM
> > Subject: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

> >
> > > Hey guys.
> > >
> > > My Ts820S, that I am restoring has two strange issues:
> > >
> > > 1) no function in tune, cw or usb and the digital display shows that
> > > the pll is not locked (I guess).
> > >
> > > It shows:
> > >
> > > on all segments of 10m 29.000
> > >
> > > On 21mhz, shows 29.000
> > >
> > > 0n 14mhz shows 19.000 etc
> > >
> > > on 7 mhz shows 9.000
> > >
> > > on 80 and 160 meters shows 9.000 and on WWv shows 19.000
> > >
> > > When the radio is in lsb or fsk the readout works as it should and
> > > all is well until you tx:
> > >
> > > here is problem number 2)
> > >
> > > Receive is fine until you key the mike then receive drops (I guess
> > > about 40 db).
> > >
> > > The only way to get it back to the level it originally was on is to
> > > do the following:
> > >
> > > turn the power switch off for a second
> > >
> > > then the readout reads (on lsb and fsk) about 400kc higher than when
> > > you first key up.
> > >
> > > flick the band switch and the frequency jumps back to the correct
> > > one and receive is back to normal.
> > >
> > > Weird or what?
> > >
> > > I am guessing that the problems may be.
> > >
> > > a) the connectors from the mode switch to the PLL board?
> > >
> > > b) there is a bad cap or solder joint on the pll board?
> > >
> > > c) the switch (es) are bad.
> > >
> > > Any help would be appreciated.

> > >
> > > I would also like to offer a big thank you to Charles on this group
> > > who helped with spares for my 820, good on you mate !!!!
> > >
> > > 73's
> > >
> > > Anthony
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> >
> >
> >
> >
> >
> > --
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
> > 21/07/2006
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >

>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 21/07/2006
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

8368. Re: [TS-520_820_530_830] Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 13:08:18 UTC
From: Bill Leahy
Topic: 8207 Message: 8368

Further thoughts; peaking of this coil on 160M is usually not productive, so it would appear that just doing a match with a toroid may be sufficient both for the 160m band, and for matching to hi-Z for all the other bands; this would greatly simplify things if we could do a small toroid.

On 7/24/06, Larry Shorthill <rfssi-shorthill@...> wrote:
>
> David,
>
> Do you remember the number of turns you counted on the input and
> output sides of this transformer? Bill the list owner has wondered
> on a few occasions if anyone has thoughts about making a replacement
> for this part, which is, I think, the same as L41 on the TS-830,
> etc. It seems to be a weak link and without replacement parts we're
> left to rewinding these. Also, if you can, comment on the guage wire
> used. If you don't have the guage, can you measure the diameter with
> a micrometer or even a caliper.
>
> Also, if anyone has a loose L41 coil for the 830 can you possibly
> measure the input and output inductances. This can help identify a
> suitable core substitute.
>
> Many thanks.
>
> Larry
> KC7ULI
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "David Franklin"
> <dfranklyn@...> wrote:
> >
> > Gordon,
> >
> > I had a similar problem with my TS-820. L8 on the coil pack was
> burned
> > shorted. It had the same symptoms, all four leads were shorted.
> It is in
> > the RX antenna path therefore it caused the sensitivity to be very
> low.
> >
> > I was able to unwind the coil very carefully counting the turns and
> rewind
> > using wire from a coil on a stripped Hallicrafters S-40 chassis.
> >
> > Might be worth a try if you cannot find a replacement.

> >
> > Good Luck,
> > Dave
> > ki4jsn
> >
> >
> > ----- Original Message -----
> > From: "Gordon" <n6wk@...>
> > To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> >
> > Sent: Wednesday, July 12, 2006 5:27 PM
> > Subject: [TS-520_820_530_830] Re: My Newest Project.
> >
> >
> > Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
> > out. All 4 wire terminals have continuity with each other and it
> > smells Burnt.
> > Boy, That's some small wire to try and rewind..hi hi..
> > I'm hoping someone has one they will sell me.
> >
> > Gordon
> >
>
>
>

[Non-text portions of this message have been removed]

8369. Re: [TS-520_820_530_830] Alignment tool Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 13:10:53 UTC
From: Bill Leahy
Topic: 8350 Message: 8369

I think the paid version does two tones... ideal!

I use NCH to tune my gee-tars.

bill

On 7/24/06, K4MT <k4mt@...> wrote:
>
> If you want to do some tweaking and don't have a good tone
> generator try NCH frequency generator software for your PC.
> Generates all types of tones through your sound card, to include
> sweep and multiple tones. I checked the output with a scope and
> frequency counter. Tones are fairly clean and on frequency.
> Output level is adjustable in DB.
>
> Thought this might help someone who doesnt want to put out the
> bucks for a function generator. Best yet it is freeware!
>
> Gary
>
>
>

[Non-text portions of this message have been removed]

8370. Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 14:37:14 UTC
From: Walt Breining
Topic: 8370 Message: 8370

Bill, K0ZL suggests removing the shield anyway for better cooling. I've not tried it, but he is the man on these rigs. So I wouldn't worry about the shield if it is gone.

Walt N9WB

[Non-text portions of this message have been removed]

8371. Re: [TS-520_820_530_830] 2.8 filters on ts-530?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 15:02:20 UTC
From: Walt Breining
Topic: 8326 Message: 8371

I put an INRAD 2.8 filter in my TS 820. I am particular about sound, but It made my receive much better. Yes, I mean 2.8. I tried a 1.8 some years ago. Sounds like I have wet cotton in my ears.

Vy 73, Walt N9WB

----- Original Message -----
From: wayfound2000
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 22, 2006 5:23 PM
Subject: [TS-520_820_530_830] 2.8 filters on ts-530?

I understand that some have fitted the 2.8mhz filter to the TS-530S?
Any experiences as to set up etc and results?
have kenwood will travel! All the best Pete

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date: 7/21/06

[Non-text portions of this message have been removed]

8372. Re: Alignment tool Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 14:40:13 UTC
From: Ellen R
Topic: 8350 Message: 8372

You play guitar too Bill? I'm looking to ge back in a semi-pro band
to earn some extra money. Hmmmm, I guess I'm not the only guitarist
in the group. But tuning an axe with NCH - that's a new one for me.

73 & play on,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
<k0zl.ham@...> wrote:
>
> I think the paid version does two tones... ideal!
>
> I use NCH to tune my gee-tars.
>
> bill
>
>
> On 7/24/06, K4MT <k4mt@...> wrote:
> >
> > If you want to do some tweaking and don't have a good tone
> > generator try NCH frequency generator software for your PC.
> > Generates all types of tones through your sound card, to include
> > sweep and multiple tones. I checked the output with a scope and
> > frequency counter. Tones are fairly clean and on frequency.
> > Output level is adjustable in DB.
> >
> > Thought this might help someone who doesnt want to put out the
> > bucks for a function generator. Best yet it is freeware!
> >
> > Gary
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8373. Re: Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 14:52:04 UTC
From: Ellen R
Topic: 8370 Message: 8373

It makes sense to me. I've had other rigs that used 12BY7s (and 12BY7As), and none of them had sheilding cans around them. They worked just fine. I've been kind of wondering about heat dissipation with that shield. Heat is the enemy of any tube.

All too often, the driver tube is blown off with regards to importance in these rigs. I've had more than a few times where just changing the 12BY7 made all of the difference in the world. A good idea that the 12BY7 is going goofy, is a lack of drive on the higher bands, or the fact that it seems to peak a little weird (say higher up in the bandspread range than it should) . I've been thinking of changing mine, because of this issue - my drive is getting kind of wimpy (only about 90W) on 20m and higher. They're relatively cheap, and Bill is right, different brands will act differently in the same radio. I had a Drake T4XC years ago that gave me better drive with GE tubes, than the one Mullard I got for it from a local electronics store.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Bill, K0ZL suggests removing the shield anyway for better cooling. I've not tried it, but he is the man on these rigs. So I wouldn't worry about the shield if it is gone.
>
> Walt N9WB
>
> [Non-text portions of this message have been removed]
>

8374. Re: [TS-520_820_530_830] Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 17:16:47 UTC
From: Peter A Markavage
Topic: 8370 Message: 8374

Not to jump on Bill's back, but I guess I could also take the metal frame shields away from the final compartment too and it would probably provide better air flow. Heck, if I take the top and bottom covers off, I'd have even better air flow. The purpose of the shields is to prevent unwanted RF radiation from getting into places where they shouldn't be. The 12BY7 does radiate sufficient RF energy without the grounded shield that could cause a problem at some frequencies. Other circuitry is fairly close to the area of the 12BY7 which could be affected. If you can find a similar shield, or even make one, I would use it.

Pete, wa2cwa

On Tue, 25 Jul 2006 09:37:14 -0500 "Walt Breining" <n9wb@...>
writes:
> Bill, K0ZL suggests removing the shield anyway for better cooling.
> I've not tried it, but he is the man on these rigs. So I wouldn't
> worry about the shield if it is gone.
>
> Walt N9WB

8375. Re: [TS-520_820_530_830] Alignment tool Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 18:28:44 UTC
From: Stephen Goldberg
Topic: 8350 Message: 8375

Just downloaded the free NCH tone generator. It does up to 16 tones at
once, each at their own level. Look on TONES on the menu bar.
Steve W4IMF

----- Original Message -----
From: Bill Leahy
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, July 25, 2006 9:10 AM
Subject: Re: [TS-520_820_530_830] Alignment tool Info

I think the paid version does two tones... ideal!

I use NCH to tune my gee-tars.

bill

On 7/24/06, K4MT <k4mt@...> wrote:
>
> If you want to do some tweaking and don't have a good tone
> generator try NCH frequency generator software for your PC.
> Generates all types of tones through your sound card, to include
> sweep and multiple tones. I checked the output with a scope and
> frequency counter. Tones are fairly clean and on frequency.
> Output level is adjustable in DB.
>
> Thought this might help someone who doesnt want to put out the
> bucks for a function generator. Best yet it is freeware!
>
> Gary
>
>
>

[Non-text portions of this message have been removed]

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/396 - Release Date: 7/24/06

8376. Re: [TS-520_820_530_830] Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 21:26:23 UTC
From: agoodridge
Topic: 8370 Message: 8376

G'day Guys

Thanks for all of the input.

I am fairly new to these radios and appreciate all of the help.

73's
Anthony
VK2FVIC
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 26, 2006 3:16 AM
Subject: Re: [TS-520_820_530_830] Missing 12BY7 shield

Not to jump on Bill's back, but I guess I could also take the metal frame
shields away from the final compartment too and it would probably provide
better air flow. Heck, if I take the top and bottom covers off, I'd have
even better air flow. The purpose of the shields is to prevent unwanted
RF radiation from getting into places where they shouldn't be. The 12BY7
does radiate sufficient RF energy without the grounded shield that could
cause a problem at some frequencies. Other circuitry is fairly close to
the area of the 12BY7 which could be affected. If you can find a similar
shield, or even make one, I would use it.

Pete, wa2cwa

On Tue, 25 Jul 2006 09:37:14 -0500 "Walt Breining" <n9wb@...>
writes:
> Bill, K0ZL suggests removing the shield anyway for better cooling.
> I've not tried it, but he is the man on these rigs. So I wouldn't
> worry about the shield if it is gone.
>
> Walt N9WB

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/396 - Release Date: 24/07/2006

[Non-text portions of this message have been removed]

8377. How to Question on TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-25 22:38:58 UTC
From: K4MT
Topic: 8377 Message: 8377

I have been troubleshooting a problem with WWV t
recieve. I had sevier noise sounding like static crashes even
with no antenna. I discovered that one of the FETs for WWV has a
bad solder connection. Simply moving it around into the right
position stops the noise.

Now my question. How do you go about removing the RF board? The
chains and gears and all the shafts etc seem like a nightmare.
Anyone done this and any tips to stop me from pulling out my
last hair?

Thanks

Gary

8378. Re: TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 01:30:34 UTC
From: Gordon
Topic: 8341 Message: 8378

Hi Anthony,
Sounds like a simliar problem I had on a TS-820 not long ago.
The first problem was due to bad contacts inside the Digital display box. I carefully removed it (4 screws) and then took the cover off the unit. I then seperated the boards and cleaned all the contacts with De-Oxit. After I put it back together, I also cleaned the upper and Lower connectors. That solved the 29.000 and the 9.000 and then WWV was right on.
The second problem sounds very much like the issue I had also. It turned out to be some brokem terminals INSIDE the connectors on the relay Board and on the AF-AVR board. might try wiggling all those connectors and see if you can locate the bad one. it worked for me when trying to locate The issue I had. I also found some broken terminals on the RF unit connectors also.

Hope this helps a bit.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau" <agoodridge@...> wrote:
>
> Hey guys.
>
> My Ts820S, that I am restoring has two strange issues:
>
> 1) no function in tune, cw or usb and the digital display shows that
> the pll is not locked (I guess).
>
> It shows:
>
> on all segments of 10m 29.000
>
> On 21mhz, shows 29.000
>
> 0n 14mhz shows 19.000 etc
>
> on 7 mhz shows 9.000
>
> on 80 and 160 meters shows 9.000 and on WWv shows 19.000
>
> When the radio is in lsb or fsk the readout works as it should and
> all is well until you tx:
>
> here is problem number 2)

>
> Receive is fine until you key the mike then receive drops (I guess
> about 40 db).
>
> The only way to get it back to the level it originally was on is to
> do the following:
>
> turn the power switch off for a second
>
> then the readout reads (on lsb and fsk) about 400kc higher than when
> you first key up.
>
> flick the band switch and the frequency jumps back to the correct
> one and receive is back to normal.
>
> Weird or what?
>
> I am guessing that the problems may be.
>
> a) the connectors from the mode switch to the PLL board?
>
> b) there is a bad cap or solder joint on the pll board?
>
> c) the switch (es) are bad.
>
> Any help would be appreciated.
>
> I would also like to offer a big thank you to Charles on this group
> who helped with spares for my 820, good on you mate !!!!
>
> 73's
>
> Anthony
>

8379. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 01:35:14 UTC
From: Gordon
Topic: 8207 Message: 8379

I counted 6 Primary and then 26 secondary over the primary Looks like
40 enamel wire !

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Larry Shorthill"
<rfssi-shorthill@...> wrote:
>
> David,
>
> Do you remember the number of turns you counted on the input and
> output sides of this transformer? Bill the list owner has wondered
> on a few occasions if anyone has thoughts about making a replacement
> for this part, which is, I think, the same as L41 on the TS-830,
> etc. It seems to be a weak link and without replacement parts we're
> left to rewinding these. Also, if you can, comment on the guage wire
> used. If you don't have the guage, can you measure the diameter with
> a micrometer or even a caliper.
>
> Also, if anyone has a loose L41 coil for the 830 can you possibly
> measure the input and output inductances. This can help identify a
> suitable core substitute.
>
> Many thanks.
>
> Larry
> KC7ULI
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Franklin"
> <dfranklyn@> wrote:
> >
> > Gordon,
> >
> > I had a similar problem with my TS-820. L8 on the coil pack was
> burned
> > shorted. It had the same symptoms, all four leads were shorted.
> It is in
> > the RX antenna path therefore it caused the sensitivity to be very
> low.
> >
> > I was able to unwind the coil very carefully counting the turns and
> rewind
> > using wire from a coil on a stripped Hallicrafters S-40 chassis.
> >
> > Might be worth a try if you cannot find a replacement.

> >
> > Good Luck,
> > Dave
> > ki4jsn
> >
> >
> > ----- Original Message -----
> > From: "Gordon" <n6wk@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Wednesday, July 12, 2006 5:27 PM
> > Subject: [TS-520_820_530_830] Re: My Newest Project.
> >
> >
> > Ok, I pulled the Coil and Ohmed it. It is NOT open, It is Shorted
> > out. All 4 wire terminals have continuity with each other and it
> > smells Burnt.
> > Boy, That's some small wire to try and rewind..hi hi..
> > I'm hoping someone has one they will sell me.
> >
> > Gordon
> >
>

8380. Re: [TS-520_820_530_830] Re: Alignment tool Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 02:23:09 UTC
From: Bill Leahy
Topic: 8350 Message: 8380

Yep, A string is 220 hz.

On 7/25/06, Ellen R <ellenjoanne2003@...> wrote:
>
> You play guitar too Bill? I'm looking to ge back in a semi-pro band
> to earn some extra money. Hmmmm, I guess I'm not the only guitarist
> in the group. But tuning an axe with NCH - that's a new one for me.
>
> 73 & play on,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "Bill Leahy"
> <k0zl.ham@...> wrote:
> >
> > I think the paid version does two tones... ideal!
> >
> > I use NCH to tune my gee-tars.
> >
> > bill
>
> >
> >
> > On 7/24/06, K4MT <k4mt@...> wrote:
> > >
> > > If you want to do some tweaking and don't have a good tone
> > > generator try NCH frequency generator software for your PC.
> > > Generates all types of tones through your sound card, to include
> > > sweep and multiple tones. I checked the output with a scope and
> > > frequency counter. Tones are fairly clean and on frequency.
> > > Output level is adjustable in DB.
> > >
> > > Thought this might help someone who doesnt want to put out the
> > > bucks for a function generator. Best yet it is freeware!
> > >
> > > Gary
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

>

[Non-text portions of this message have been removed]

8381. Re: [TS-520_820_530_830] How to Question on TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 02:22:25 UTC
From: Bill Leahy
Topic: 8377 Message: 8381

Go underneath!

I think the audio unit comes away, then there is an access plate under neath
that will allow access to the bottom of the RF unit when the plate is
removed.

b

On 7/25/06, K4MT <k4mt@...> wrote:
>
> I have been troubleshooting a problem with WWV t
> recieve. I had sevier noise sounding like static crashes even
> with no antenna. I discovered that one of the FETs for WWV has a
> bad solder connection. Simply moving it around into the right
> position stops the noise.
>
> Now my question. How do you go about removing the RF board? The
> chains and gears and all the shafts etc seem like a nightmare.
> Anyone done this and any tips to stop me from pulling out my
> last hair?
>
> Thanks
>
> Gary
>
>
>

[Non-text portions of this message have been removed]

8382. Re: [TS-520_820_530_830] Re: TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 08:15:27 UTC
From: agoodridge
Topic: 8341 Message: 8382

G'day Gordon

Thanks mate for the tips.

I really want to get the old girl going, I have had a great deal of help from another member of this group, Charles in Western Australia.

he has been tremendous.

I really appreciate all of the help.

73
Anthony
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 26, 2006 11:30 AM
Subject: [TS-520_820_530_830] Re: TS 820-s, mode switching problems? advice.

Hi Anthony,
Sounds like a simliar problem I had on a TS-820 not long ago.
The first problem was due to bad contacts inside the Digital display box. I carefully removed it (4 screws) and then took the cover off the unit. I then seperated the boards and cleaned all the contacts with De-Oxit. After I put it back together, I also cleaned the upper and Lower connectors. That solved the 29.000 and the 9.000 and then WWV was right on.
The second problem sounds very much like the issue I had also. It turned out to be some brokem terminals INSIDE the connectors on the relay Board and on the AF-AVR board. might try wiggling all those connectors and see if you can locate the bad one. it worked for me when trying to locate The issue I had. I also found some broken terminals on the RF unit connectors also.

Hope this helps a bit.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau" <agoodridge@...> wrote:
>
> Hey guys.
>
> My Ts820S, that I am restoring has two strange issues:
>

> 1) no function in tune, cw or usb and the digital display shows that
> the pll is not locked (I guess).
>
> It shows:
>
> on all segments of 10m 29.000
>
> On 21mhz, shows 29.000
>
> 0n 14mhz shows 19.000 etc
>
> on 7 mhz shows 9.000
>
> on 80 and 160 meters shows 9.000 and on WWv shows 19.000
>
> When the radio is in lsb or fsk the readout works as it should and
> all is well until you tx:
>
> here is problem number 2)
>
> Receive is fine until you key the mike then receive drops (I guess
> about 40 db).
>
> The only way to get it back to the level it originally was on is to
> do the following:
>
> turn the power switch off for a second
>
> then the readout reads (on lsb and fsk) about 400kc higher than when
> you first key up.
>
> flick the band switch and the frequency jumps back to the correct
> one and receive is back to normal.
>
> Weird or what?
>
> I am guessing that the problems may be.
>
> a) the connectors from the mode switch to the PLL board?
>
> b) there is a bad cap or solder joint on the pll board?
>
> c) the switch (es) are bad.
>
> Any help would be appreciated.
>
> I would also like to offer a big thank you to Charles on this group
> who helped with spares for my 820, good on you mate !!!!
>
> 73's

>
> Anthony
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/399 - Release Date: 25/07/2006

[Non-text portions of this message have been removed]

8383. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 08:25:32 UTC
From: Charles Mortimer
Topic: 8341 Message: 8383

hallo Anthony
Charles here
sorry don't have a cover
but according to bill ((he is one of the gurus and one of the founders
of this site)) I am inclined to go with what he says bill please the
metal strip that runs up the side of the 12by7 do you let it float in
fresh air or do you clip it to the 12by7 with small clips please what was
the original idea of this strip thanks bill Charles & rusty

----- Original Message -----
From: "Bill Leahy" <k0zl.ham@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, July 25, 2006 9:06 PM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

>I leave these off; it helps keep the 12BY7 cool, and I have never observed
> any problems with the driver being unshielded; any tubes that I have used
> that were a little "wild" either calmed down when I removed the shield, or
> stayed the same; changing the tube would do the trick in that case.
>
> By the way guys when you are buying driver tubes, always get a couple or
> five, preferably of different manufacturers; sometimes a particular radio
> does not like a particular tube, as evidenced by jumps in plate current or
> ALC reading when turning the drive or preselector tuning from one end of
> travel to the other. In this case, just change the driver until you find
> one
> that is stable. Save the others for someone else's rig, don't throw them
> out!
>
> 73,
>
> Bill K0ZL
>
>
> On 7/24/06, agoodridge <agoodridge@...> wrote:
>>
>> G'day Charles
>>
>> Thanks mate
>>
>> I am not too sure what the cover actually does, but I thought it must
>> have
>> some relevance.
>>
>> Thanks again

>>
>> 73
>> Anthony
>>
>> ----- Original Message -----
>> From: Charles Mortimer
>> To:
>> TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> Sent: Tuesday, July 25, 2006 12:15 AM
>> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> advice.
>>
>> Anthony I will have a look to see if I have one but I don't think so I
>> believe they can be operated with out it strap fits inside the tube that
>> fits over the 12by7 don't hold your breath on that part will give it
>> some thought how you can get over it
>> Charles
>> ----- Original Message -----
>> From: "agoodridge" <agoodridge@... <agoodridge%40bigpond.com>>
>> To:
>> <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> >
>> Sent: Monday, July 24, 2006 8:52 PM
>> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> advice.
>>
>> > G'day Charles
>> >
>> > No problems at all, those word were more than deserved, you were a
>> > great
>>
>> > help mate !
>> >
>> >
>> > I am slowly getting the old girl up and running, I noticed over the
>> > weekend that the driver does not have the black cover, so that is
>> another
>> > item I need to chase up, or maybe I can make one up.
>> >
>> > It actually appears to hold the earth strap in place as well.
>> >
>> > I think I am not too far away from getting her 100% operational.
>> >
>> > Take care
>> >
>> > 73
>> >
>> > Anthony
>> > VK2FVIC
>> >

>> >
>> > ----- Original Message -----
>> > From: Charles Mortimer
>> > To:
>> > TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> > Sent: Monday, July 24, 2006 7:47 PM
>> > Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> > advice.
>> >
>> >
>> > hallo Anthony
>> > Charles returning
>> > thank you for those kind words really appreciated
>> > Charles & rusty vk6ycj
>> >
>> > ----- Original Message -
>> >
>> > ----
>> > From: "m_m_maxau" <agoodridge@... <agoodridge%40bigpond.com>>
>> > To:
>> > <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> >
>> > Sent: Monday, July 24, 2006 12:25 PM
>> > Subject: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> > advice.
>> >
>> > > Hey guys.
>> > >
>> > > My Ts820S, that I am restoring has two strange issues:
>> > >
>> > > 1) no function in tune, cw or usb and the digital display shows that
>> > > the pll is not locked (I guess).
>> > >
>> > > It shows:
>> > >
>> > > on all segments of 10m 29.000
>> > >
>> > > On 21mhz, shows 29.000
>> > >
>> > > 0n 14mhz shows 19.000 etc
>> > >
>> > > on 7 mhz shows 9.000
>> > >
>> > > on 80 and 160 meters shows 9.000 and on WWv shows 19.000
>> > >
>> > > When the radio is in lsb or fsk the readout works as it should and
>> > > all is well until you tx:
>> > >
>> > > here is problem number 2)
>> > >

>> > > Receive is fine until you key the mike then receive drops (I guess
>> > > about 40 db).
>> > >
>> > > The only way to get it back to the level it originally was on is to
>> > > do the following:
>> > >
>> > > turn the power switch off for a second
>> > >
>> > > then the readout reads (on lsb and fsk) about 400kc higher than when
>> > > you first key up.
>> > >
>> > > flick the band switch and the frequency jumps back to the correct
>> > > one and receive is back to normal.
>> > >
>> > > Weird or what?
>> > >
>> > > I am guessing that the problems may be.
>> > >
>> > > a) the connectors from the mode switch to the PLL board?
>> > >
>> > > b) there is a bad cap or solder joint on the pll board?
>> > >
>> > > c) the switch (es) are bad.
>> > >
>> > > Any help would be appreciated.
>> > >
>> > > I would also like to offer a big thank you to Charles on this group
>> > > who helped with spares for my 820, good on you mate !!!!
>> > >
>> > > 73's
>> > >
>> > > Anthony
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > > Yahoo! Groups Links
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> >
>> >
>> >

>> >
>> >
>> > ----------
>> >
>> >
>> > No virus found in this incoming message.
>> > Checked by AVG Free Edition.
>> > Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
>> > 21/07/2006
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>>
>> ----------
>>
>> No virus found in this incoming message.
>> Checked by AVG Free Edition.
>> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
>> 21/07/2006
>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

>
>
>

8384. Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 10:48:31 UTC
From: agoodridge
Topic: 8341 Message: 8384

G'day Charles

Thanks for looking mate, much appreciated.

I will follow Bills advice.

I need to get stuck into it when I get some time. hopefully this weekend.

Thanks again mate

73
Anthony

----- Original Message -----
From: Charles Mortimer
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 26, 2006 6:25 PM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

hallo Anthony
Charles here
sorry don't have a cover
but according to bill ((he is one of the gurus and one of the founders
of this site)) I am inclined to go with what he says bill please the
metal strip that runs up the side of the 12by7 do you let it float in
fresh air or do you clip it to the 12by7 with small clips please what was
the original idea of this strip thanks bill Charles & rusty

----- Original Message -----
From: "Bill Leahy" <k0zl.ham@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, July 25, 2006 9:06 PM
Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems? advice.

>I leave these off; it helps keep the 12BY7 cool, and I have never observed
> any problems with the driver being unshielded; any tubes that I have used
> that were a little "wild" either calmed down when I removed the shield, or
> stayed the same; changing the tube would do the trick in that case.
>
> By the way guys when you are buying driver tubes, always get a couple or
> five, preferably of different manufacturers; sometimes a particular radio
> does not like a particular tube, as evidenced by jumps in plate current or
> ALC reading when turning the drive or preselector tuning from one end of
> travel to the other. In this case, just change the driver until you find
> one
> that is stable. Save the others for someone else's rig, don't throw them
> out!

>
> 73,
>
> Bill K0ZL
>
>
> On 7/24/06, agoodridge <agoodridge@...> wrote:
>>
>> G'day Charles
>>
>> Thanks mate
>>
>> I am not too sure what the cover actually does, but I thought it must
>> have
>> some relevance.
>>
>> Thanks again
>>
>> 73
>> Anthony
>>
>> ----- Original Message -----
>> From: Charles Mortimer
>> To:
>> TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> Sent: Tuesday, July 25, 2006 12:15 AM
>> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> advice.
>>
>> Anthony I will have a look to see if I have one but I don't think so I
>> believe they can be operated with out it strap fits inside the tube that
>> fits over the 12by7 don't hold your breath on that part will give it
>> some thought how you can get over it
>> Charles
>> ----- Original Message -----
>> From: "agoodridge" <agoodridge@... <agoodridge%40bigpond.com>>
>> To:
>> <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> >
>> Sent: Monday, July 24, 2006 8:52 PM
>> Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> advice.
>>
>> > G'day Charles
>> >
>> > No problems at all, those word were more than deserved, you were a
>> > great
>>
>> > help mate !
>> >

>> >
>> > I am slowly getting the old girl up and running, I noticed over the
>> > weekend that the driver does not have the black cover, so that is
>> another
>> > item I need to chase up, or maybe I can make one up.
>> >
>> > It actually appears to hold the earth strap in place as well.
>> >
>> > I think I am not too far away from getting her 100% operational.
>> >
>> > Take care
>> >
>> > 73
>> >
>> > Anthony
>> > VK2FVIC
>> >
>> >
>> > ----- Original Message -----
>> > From: Charles Mortimer
>> > To:
>> > TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> > Sent: Monday, July 24, 2006 7:47 PM
>> > Subject: Re: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> > advice.
>> >
>> >
>> > hallo Anthony
>> > Charles returning
>> > thank you for those kind words really appreciated
>> > Charles & rusty vk6ycj
>> >
>> > ----- Original Message -
>> >
>> > ----
>> > From: "m_m_maxau" <agoodridge@... <agoodridge%40bigpond.com>>
>> > To:
>> > <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
>> >
>> > Sent: Monday, July 24, 2006 12:25 PM
>> > Subject: [TS-520_820_530_830] TS 820-s, mode switching problems?
>> > advice.
>> >
>> > > Hey guys.
>> > >
>> > > My Ts820S, that I am restoring has two strange issues:
>> > >
>> > > 1) no function in tune, cw or usb and the digital display shows that
>> > > the pll is not locked (I guess).
>> > >

>> > > It shows:
>> > >
>> > > on all segments of 10m 29.000
>> > >
>> > > On 21mhz, shows 29.000
>> > >
>> > > 0n 14mhz shows 19.000 etc
>> > >
>> > > on 7 mhz shows 9.000
>> > >
>> > > on 80 and 160 meters shows 9.000 and on WWv shows 19.000
>> > >
>> > > When the radio is in lsb or fsk the readout works as it should and
>> > > all is well until you tx:
>> > >
>> > > here is problem number 2)
>> > >
>> > > Receive is fine until you key the mike then receive drops (I guess
>> > > about 40 db).
>> > >
>> > > The only way to get it back to the level it originally was on is to
>> > > do the following:
>> > >
>> > > turn the power switch off for a second
>> > >
>> > > then the readout reads (on lsb and fsk) about 400kc higher than when
>> > > you first key up.
>> > >
>> > > flick the band switch and the frequency jumps back to the correct
>> > > one and receive is back to normal.
>> > >
>> > > Weird or what?
>> > >
>> > > I am guessing that the problems may be.
>> > >
>> > > a) the connectors from the mode switch to the PLL board?
>> > >
>> > > b) there is a bad cap or solder joint on the pll board?
>> > >
>> > > c) the switch (es) are bad.
>> > >
>> > > Any help would be appreciated.
>> > >
>> > > I would also like to offer a big thank you to Charles on this group
>> > > who helped with spares for my 820, good on you mate !!!!
>> > >
>> > > 73's
>> > >
>> > > Anthony
>> > >

>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > > Yahoo! Groups Links
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> >
>> >
>> >
>> >
>> >
>> > --
>> >
>> >
>> > No virus found in this incoming message.
>> > Checked by AVG Free Edition.
>> > Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
>> > 21/07/2006
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> >
>> >
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>> >
>> >
>> >
>>
>> --
>>
>> No virus found in this incoming message.
>> Checked by AVG Free Edition.
>> Version: 7.1.394 / Virus Database: 268.10.3/395 - Release Date:
>> 21/07/2006
>>

>> [Non-text portions of this message have been removed]
>>
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/399 - Release Date: 25/07/2006

[Non-text portions of this message have been removed]

8385. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 16:59:47 UTC
From: Larry Shorthill
Topic: 8207 Message: 8385

Bill,

Gordon says 6 primary and 26 secondary turns of what looks like #40 enameled. My guess is that some kind of ferrite is used on this, but possibly powdered iron given the low frequency. At higher frequencies, the magnetic material would have less of an effect, depending more on the mutal coupling of the primary and secondary. Given that the coil seems to resonate against a 220pf cap and is loaded by 10K at 160meters, I can determine the type of material needed to do this with a small torroid. In aligning the antenna coils is there interaction between setting up the 160 meter coil and the ones on higher frequencies --especially 80 meters? If so, then some kind of tuning capability would possibly be best, but I think a fixed coil and a small variable Cap in parallel with the 220 pf cap (may need a small change in value there -- say 200pf with a 40pf variable) could do the trick.

I'll get back on this after I do some noodling.

73
Larry, KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...> wrote:
>
> Further thoughts; peaking of this coil on 160M is usually not productive, so
> it would appear that just doing a match with a toroid may be sufficient both
> for the 160m band, and for matching to hi-Z for all the other bands; this
> would greatly simplify things if we could do a small toroid.
>
> On 7/24/06, Larry Shorthill <rfssi-shorthill@...> wrote:
> >
> > David,
> >
> > Do you remember the number of turns you counted on the input and
> > output sides of this transformer? Bill the list owner has wondered
> > on a few occasions if anyone has thoughts about making a replacement
> > for this part, which is, I think, the same as L41 on the TS-830,
> > etc. It seems to be a weak link and without replacement parts we're
> > left to rewinding these. Also, if you can, comment on the guage wire

> > used. If you don't have the guage, can you measure the diameter
with
> > a micrometer or even a caliper.
> >
> > Also, if anyone has a loose L41 coil for the 830 can you possibly
> > measure the input and output inductances. This can help identify a
> > suitable core substitute.
> >
> > Many thanks.
> >
> > Larry
> > KC7ULI
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%
40yahoogroups.com>,
> > "David Franklin"
> > <dfranklyn@> wrote:
> > >
> > > Gordon,
> > >
> > > I had a similar problem with my TS-820. L8 on the coil pack was
> > burned
> > > shorted. It had the same symptoms, all four leads were shorted.
> > It is in
> > > the RX antenna path therefore it caused the sensitivity to be
very
> > low.
> > >
> > > I was able to unwind the coil very carefully counting the turns
and
> > rewind
> > > using wire from a coil on a stripped Hallicrafters S-40 chassis.
> > >
> > > Might be worth a try if you cannot find a replacement.
> > >
> > > Good Luck,
> > > Dave
> > > ki4jsn
> > >
> > >
> > > ----- Original Message -----
> > > From: "Gordon" <n6wk@>
> > > To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%
40yahoogroups.com>
> > >
> > > Sent: Wednesday, July 12, 2006 5:27 PM
> > > Subject: [TS-520_820_530_830] Re: My Newest Project.
> > >
> > >
> > > Ok, I pulled the Coil and Ohmed it. It is NOT open, It is

Shorted
> > > out. All 4 wire terminals have continuity with each other and it
> > > smells Burnt.
> > > Boy, That's some small wire to try and rewind..hi hi..
> > > I'm hoping someone has one they will sell me.
> > >
> > > Gordon
> > >
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8386. TS-830S for sale at Burghardts Web Site 7\26\06

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 17:39:27 UTC
From: N3DOK
Topic: 8386 Message: 8386

Hi, I just spotted a TS-830S for sale at Burghardts Web Site.

http://www.burghardt-amateur.com/Burghardt/HTML/main_frame.html
LAST UPDATED - 7/26/06
KENWOOD TS-830S 160-10, 125W, VBT, NOTCH, AC Rg $399.00

I have no connection with this company. Nothing to do with the sale of this radio. Just want to help someone find a TS-830S.

I have 2 of them. Good Luck.

Bob N3DOK

[Non-text portions of this message have been removed]

8387. Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 19:03:19 UTC
From: Larry Shorthill
Topic: 8207 Message: 8387

Here are some thoughts on making a substitute L41 antenna input transformer. The circuit for 160 meters has a low frequency limit of 1.5MHz,if it is consistent with all the other coil notations on the schematic. The actual secondary resonant circuit in this position is the secondary inductance in parallel with 500pF total and loaded by a 10K resistor. I get the C total by adding up all the switched in caps including the caps on S1-3. The cap "L" in the schematic I have estimated to be 120pf fully meshed. It might be more than this but certainly not more than 200pf, but let's use 120 as a starting point for discussion.

That means that the secondary L is about 212uH for resonance, if I did my math right. Powdered iron does not have the permeability to make this inductance with 26 turns, so looking through my info on ferrites, I find that and FT37-43 might give a little too much inductance but two parallel FT23-43 cores should be pretty close. For those who want to check my math, etc., the Al value of FT37-43 cores is 420mH/1000T and for FT23-43 cores is 188mH/1000T. We need about 313mH/1000T to get the right inductance with 26 turns. We can adjust down the number of turns a little if needed to tweek it in.

Now, to try winding a coil given these parameters.

Someone please check my numbers and see if I am off base.

73
Larry, KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, "Larry Shorthill" <rfssi-shorthill@...> wrote:
>
> Bill,
>
> Gordon says 6 primary and 26 secondary turns of what looks like #40
> enameled. My guess is that some kind of ferrite is used on this, but
> possibly powdered iron given the low frequency. At higher
> frequencies, the magnetic material would have less of an effect,
> depending more on the mutal coupling of the primary and secondary.
> Given that the coil seems to resonate against a 220pf cap and is
> loaded by 10K at 160meters, I can determine the type of material
> needed to do this with a small torroid. In aligning the antenna coils
> is there interaction between setting up the 160 meter coil and the
> ones on higher frequencies --especially 80 meters? If so, then some

> kind of tuning capability would possibly be best, but I think a
fixed
> coil and a small variable Cap in parallel with the 220 pf cap (may
> need a small change in value there -- say 200pf with a 40pf
variable)
> could do the trick.
>
> I'll get back on this after I do some noodling.
>
> 73
> Larry, KC7ULI
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
> <k0zl.ham@> wrote:
> >
> > Further thoughts; peaking of this coil on 160M is usually not
> productive, so
> > it would appear that just doing a match with a toroid may be
> sufficient both
> > for the 160m band, and for matching to hi-Z for all the other
> bands; this
> > would greatly simplify things if we could do a small toroid.
> >
> > On 7/24/06, Larry Shorthill <rfssi-shorthill@> wrote:
> > >
> > > David,
> > >
> > > Do you remember the number of turns you counted on the input and
> > > output sides of this transformer? Bill the list owner has
wondered
> > > on a few occasions if anyone has thoughts about making a
> replacement
> > > for this part, which is, I think, the same as L41 on the TS-830,
> > > etc. It seems to be a weak link and without replacement parts
> we're
> > > left to rewinding these. Also, if you can, comment on the guage
> wire
> > > used. If you don't have the guage, can you measure the diameter
> with
> > > a micrometer or even a caliper.
> > >
> > > Also, if anyone has a loose L41 coil for the 830 can you
possibly
> > > measure the input and output inductances. This can help
identify a
> > > suitable core substitute.
> > >
> > > Many thanks.

> > >
> > > Larry
> > > KC7ULI
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%
> 40yahoogroups.com>,
> > > "David Franklin"
> > > <dfranklyn@> wrote:
> > > >
> > > > Gordon,
> > > >
> > > > I had a similar problem with my TS-820. L8 on the coil pack
was
> > > burned
> > > > shorted. It had the same symptoms, all four leads were
shorted.
> > > It is in
> > > > the RX antenna path therefore it caused the sensitivity to be
> very
> > > low.
> > > >
> > > > I was able to unwind the coil very carefully counting the
turns
> and
> > > rewind
> > > > using wire from a coil on a stripped Hallicrafters S-40
chassis.
> > > >
> > > > Might be worth a try if you cannot find a replacement.
> > > >
> > > > Good Luck,
> > > > Dave
> > > > ki4jsn
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: "Gordon" <n6wk@>
> > > > To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%
> 40yahoogroups.com>
> > > >
> > > > Sent: Wednesday, July 12, 2006 5:27 PM
> > > > Subject: [TS-520_820_530_830] Re: My Newest Project.
> > > >
> > > >
> > > > Ok, I pulled the Coil and Ohmed it. It is NOT open, It is
> Shorted
> > > > out. All 4 wire terminals have continuity with each other and
it
> > > > smells Burnt.
> > > > Boy, That's some small wire to try and rewind..hi hi..

> > > > I'm hoping someone has one they will sell me.
> > > >
> > > > Gordon
> > > >
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

8388. Re: [TS-520_820_530_830] Re: My Newest Project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 19:05:48 UTC
From: Bill Leahy
Topic: 8207 Message: 8388

Thanks.

I will take a look at forms that are available that will fit the holes in
the PC board, hopefully.

b

On 7/26/06, Larry Shorthill <rfssi-shorthill@...> wrote:
>
> Bill,
>
> Gordon says 6 primary and 26 secondary turns of what looks like #40
> enameled. My guess is that some kind of ferrite is used on this, but
> possibly powdered iron given the low frequency. At higher
> frequencies, the magnetic material would have less of an effect,
> depending more on the mutal coupling of the primary and secondary.
> Given that the coil seems to resonate against a 220pf cap and is
> loaded by 10K at 160meters, I can determine the type of material
> needed to do this with a small torroid. In aligning the antenna coils
> is there interaction between setting up the 160 meter coil and the
> ones on higher frequencies --especially 80 meters? If so, then some
> kind of tuning capability would possibly be best, but I think a fixed
> coil and a small variable Cap in parallel with the 220 pf cap (may
> need a small change in value there -- say 200pf with a 40pf variable)
> could do the trick.
>
> I'll get back on this after I do some noodling.
>
> 73
> Larry, KC7ULI
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "Bill Leahy"
> <k0zl.ham@...> wrote:
> >
> > Further thoughts; peaking of this coil on 160M is usually not
> productive, so
> > it would appear that just doing a match with a toroid may be
> sufficient both
> > for the 160m band, and for matching to hi-Z for all the other
> bands; this
> > would greatly simplify things if we could do a small toroid.
> >
> > On 7/24/06, Larry Shorthill <rfssi-shorthill@...> wrote:
> > >
> > > David,

> > >
> > > Do you remember the number of turns you counted on the input and
> > > output sides of this transformer? Bill the list owner has wondered
> > > on a few occasions if anyone has thoughts about making a
> replacement
> > > for this part, which is, I think, the same as L41 on the TS-830,
> > > etc. It seems to be a weak link and without replacement parts
> we're
> > > left to rewinding these. Also, if you can, comment on the guage
> wire
> > > used. If you don't have the guage, can you measure the diameter
> with
> > > a micrometer or even a caliper.
> > >
> > > Also, if anyone has a loose L41 coil for the 830 can you possibly
> > > measure the input and output inductances. This can help identify a
> > > suitable core substitute.
> > >
> > > Many thanks.
> > >
> > > Larry
> > > KC7ULI
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <TS-520_820_530_830%
> 40yahoogroups.com>,
> > > "David Franklin"
> > > <dfranklyn@> wrote:
> > > >
> > > > Gordon,
> > > >
> > > > I had a similar problem with my TS-820. L8 on the coil pack was
> > > burned
> > > > shorted. It had the same symptoms, all four leads were shorted.
> > > It is in
> > > > the RX antenna path therefore it caused the sensitivity to be
> very
> > > low.
> > > >
> > > > I was able to unwind the coil very carefully counting the turns
> and
> > > rewind
> > > > using wire from a coil on a stripped Hallicrafters S-40 chassis.
> > > >
> > > > Might be worth a try if you cannot find a replacement.
> > > >
> > > > Good Luck,
> > > > Dave
> > > > ki4jsn
> > > >

> > > >
> > > > ----- Original Message -----
> > > > From: "Gordon" <n6wk@>
> > > > To: <TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <TS-520_820_530_830%
> 40yahoogroups.com>
> > > > >
> > > > > Sent: Wednesday, July 12, 2006 5:27 PM
> > > > > Subject: [TS-520_820_530_830] Re: My Newest Project.
> > > > >
> > > > >
> > > > > Ok, I pulled the Coil and Ohmed it. It is NOT open, It is
> Shorted
> > > > > out. All 4 wire terminals have continuity with each other and it
> > > > > smells Burnt.
> > > > > Boy, That's some small wire to try and rewind..hi hi..
> > > > > I'm hoping someone has one they will sell me.
> > > > >
> > > > > Gordon
> > > > >
> > > >
> > > >
> > > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
>
>
>

[Non-text portions of this message have been removed]

8391. Re: How to Question on TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 00:07:34 UTC
From: K4MT
Topic: 8377 Message: 8391

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy" <k0zl.ham@...> wrote:

Thanks. I was able to remove a shield underneath the RF board. Found a solder bridge that was there since the unit was new. The bridge went to a pin of one of the FETs that do the WWV conversion and that pin had a very cold solder connection. A little heat and dab of solder and all is well.

Thanks

>
> Go underneath!
>
> I think the audio unit comes away, then there is an access plate under neath
> that will allow access to the bottom of the RF unit when the plate is
> removed.
>
> b
>
>
> On 7/25/06, K4MT <k4mt@...> wrote:
> >
> > I have been troubleshooting a problem with WWV t
> > recieve. I had sevier noise sounding like static crashes even
> > with no antenna. I discovered that one of the FETs for WWV has a
> > bad solder connection. Simply moving it around into the right
> > position stops the noise.
> >
> > Now my question. How do you go about removing the RF board? The
> > chains and gears and all the shafts etc seem like a nightmare.
> > Anyone done this and any tips to stop me from pulling out my
> > last hair?
> >
> > Thanks
> >
> > Gary
> >
> >
> >
>

>
> [Non-text portions of this message have been removed]
>

8392. Re: Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 01:47:18 UTC
From: james27613
Topic: 8370 Message: 8392

hi,

I have the shield on my ts-520
but my ts-530 has no shield.

did the 530S have a tube shield
for the driver tube ?

73 james ke4drn

8393. Re: [TS-520_820_530_830] Re: Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 06:40:51 UTC
From: Peter A Markavage
Topic: 8370 Message: 8393

Yes, part # F11-0249-05; page 30 of service manual.

Pete, wa2cwa

On Thu, 27 Jul 2006 01:47:18 -0000 "james27613" <james27613@...>
writes:
> hi,
>
> I have the shield on my ts-520
> but my ts-530 has no shield.
>
> did the 530S have a tube shield
> for the driver tube ?
>
> 73 james ke4drn

8394. Re: [TS-520_820_530_830] TS830m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 12:43:20 UTC
From: Charles Mortimer
Topic: 8358 Message: 8394

hallo bob
Charles returning
you are dead right there I have just downloaded the manual and had a bit of
a gander at the vfodo you have a better exploded view of the dial system
how much movement is there on the dial the way I see it at the moment it is
a small engineering job this one is not an easy fix on the 830 the 820 is
a simple job one suggestion I have is to find an outboard vfo a non
working unit and cannibalize the parts or swap the vfo over in to yours the
thing is that will cost money but either way you go about the fix problem it
will cost until I can find a better picture of the make up how things go
together the biggest problem is that spring and two washers that holds the
sub dial in position if it wasn't for that spring I could suggest a fix
sorry I cant help you much more than that when I get some better pictures
then I will see if I can find a way around the situation
Charles g1fak vk6ycj

----- Original Message -----
From: "budgiebob2005" <budgiebob@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, July 25, 2006 4:19 AM
Subject: [TS-520_820_530_830] TS830m

> To ALL my last post spoke about play in tuningknob and whilst this
> does not affect tunning it gived a poor feel . i had a number off
> replies but due to my error the advice given was for ts820 and this
> does not appear to apply to my TS830m ie I hve noo bearing ring
> etc . .looking carefully the play is due to movement off the brass
> shaft the knob fits on. this appears to be fixed by circlip and will
> allow fractional movement when knob raised. it looks as if it should
> be ok if a firm fix was availiable . presumably there is play in the
> btm hole! . any thoughts on this Ts830 m sorry!!Bob G8acq
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

>

8395. Meter Readings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 13:36:54 UTC
From: Max Harelik
Topic: 8395 Message: 8395

I have two TS-530S's sitting side-by-side. Both put out ~100w. They have about the same peak driver reading in tune, but very different for plate and load. One 530, when plate and load are adjusted, peaks just a few mils, the other 530 peaks well up on the scale.('Carrier' control effect is taken into consideration.) Again, both radios put out ~100w.

My question is this: Is this just a meter driver issue (that perhaps may be remedied by adjusting VR11?), or should I be looking elsewhere? I don't know enough about the innards of this radio to chance random twiddling, and I'm not equiped to do proper maintenance. Any help will be appreciated. Thanks.

73,
Max, K5OVW

8396. RE: [TS-520_820_530_830] Meter Readings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 14:30:00 UTC
From: Richard Harris
Topic: 8395 Message: 8396

Max,

The voltage across the cathode resistors R2 to R5 (all in parallel) is what is measured by the meter, via R6 and R10, when the PA current on the meter switch is selected. If both rigs are giving 100W output, then the PA stages of both rigs must be OK, so I suspect R6 (2K7) may be faulty, or possibly R10. If the meter reads the HV correctly (about 800V), then it is not a meter fault..

The PA current for 100W output should be around 250mA

Don't adjust the standing PA current potentiometer until you are getting a correct reading on the meter when warming up you power meter load. Then set it for 60mA.

Also, take care working in this part of the rig due to the lethal voltages.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Max Harelik
Sent: 27 July 2006 14:37
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Meter Readings

I have two TS-530S's sitting side-by-side. Both put out ~100w. They have
about the same peak driver reading in tune, but very different for plate
and load. One 530, when plate and load are adjusted, peaks just a few
mils, the other 530 peaks well up on the scale.('Carrier' control
effect is taken into consideration.) Again, both radios put out ~100w.

My question is this: Is this just a meter driver issue (that perhaps may
be remedied by adjusting VR11?), or should I be looking elsewhere? I
don't know enough about the innards of this radio to chance random
twiddling, and I'm not equiped to do proper maintenance. Any help will
be appreciated. Thanks.

73,
Max, K5OVW

[Non-text portions of this message have been removed]

8397. Re: [TS-520_820_530_830] Re: Missing 12BY7 shield

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 17:12:10 UTC
From: Stephen Goldberg
Topic: 8370 Message: 8397

Yes.

----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 26, 2006 9:47 PM
Subject: [TS-520_820_530_830] Re: Missing 12BY7 shield

hi,

I have the shield on my ts-520
but my ts-530 has no shield.

did the 530S have a tube shield
for the driver tube ?

73 james ke4drn

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/399 - Release Date: 7/25/06

8398. Re: [TS-520_820_530_830] TS-520S Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-26 23:48:05 UTC
From: Bert Morton
Topic: 8398 Message: 8398

Here is one in PDF that I use that seems pretty sharp to me as a copy.

http://kb2ljj.serveftp.com/kenwood/TS-520S_Service.pdf

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, July 26, 2006 7:23 PM
Subject: [TS-520_820_530_830] TS-520S Manual

I am looking for a TS-520S ORIGINAL manual. Not a Copy. The copies
are just too hard to read the schematics on.
Anyone have one that they would be willing to sell me ?

Thanks,
Gordon
N6WK

8399. Re: [TS-520_820_530_830] TS-520S Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 17:52:56 UTC
From: N3DOK
Topic: 8398 Message: 8399

Contact Vintage Manuals. They may have original in stock. As far as having a hard time reading the schematics, I have enlarged them on my printer/copier. If you go to a Office Max type store, they can enlarge it. I have done this in the past. Down load the material on a disk or cd. They can work from that also.

Vintage Manuals, Inc.
119 E George St.
Batesville, IN 47006

Telephone: (812) 932-3417
Order Line: (800) 807-6146
Fax: (812) 932-1022 (orders only)

E-mail: mailto:sales@...

OFFICE HOURS: 8a - 3p EST

Monday through Friday

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, July 26, 2006 7:27 PM
Subject: [TS-520_820_530_830] TS-520S Manual

I am looking for a TS-520S ORIGINAL SERVICE manual. Not a Copy.
The copies are just too hard to read the schematics on.
Anyone have one that they would be willing to sell me ?

Thanks,
Gordon
N6WK

[Non-text portions of this message have been removed]

8400. Re: TS-520S Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 18:01:28 UTC
From: Gordon
Topic: 8398 Message: 8400

Thanks Bert,
But the Voltage Values on the main schematic of this PDF are still
NOT very good when blown up or printed out.
I am going to continue to look for an Original.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bert Morton"
<hamradioguy@...> wrote:
>
> Here is one in PDF that I use that seems pretty sharp to me as a copy.
>
> http://kb2ljj.serveftp.com/kenwood/TS-520S_Service.pdf
>
> ----- Original Message -----
> From: "Gordon" <n6wk@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, July 26, 2006 7:23 PM
> Subject: [TS-520_820_530_830] TS-520S Manual
>
>
> I am looking for a TS-520S ORIGINAL manual. Not a Copy. The copies
> are just too hard to read the schematics on.
> Anyone have one that they would be willing to sell me ?
>
> Thanks,
> Gordon
> N6WK
>

8401. Re: [TS-520_820_530_830] Meter Readings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 19:32:15 UTC
From: Walt Breining
Topic: 8395 Message: 8401

Is your meter switch in the RF position or IC position ?
If it is in the RF position you are not reading IC but are reading relative RF output. Set this with VR-10, not 11 so it reads 3/4 scale with full output.
If this is occurring in the IC position, you may have problems with the cathode resistors as Richard Harris suggested. Check to see if someone may have bypassed them after they opened, a very bad thing to do. If this has happened, they will need to be replaced.

Walt N9WB
----- Original Message -----
From: Max Harelik
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, July 27, 2006 8:36 AM
Subject: [TS-520_820_530_830] Meter Readings

I have two TS-530S's sitting side-by-side. Both put out ~100w. They have about the same peak driver reading in tune, but very different for plate and load. One 530, when plate and load are adjusted, peaks just a few mils, the other 530 peaks well up on the scale.('Carrier' control effect is taken into consideration.) Again, both radios put out ~100w.

My question is this: Is this just a meter driver issue (that perhaps may be remedied by adjusting VR11?), or should I be looking elsewhere? I don't know enough about the innards of this radio to chance random twiddling, and I'm not equipped to do proper maintenance. Any help will be appreciated. Thanks.

73,
Max, K5OVW

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06

[Non-text portions of this message have been removed]

8402. Re: [TS-520_820_530_830] Meter Readings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 22:06:02 UTC
From: Max Harelik
Topic: 8395 Message: 8402

Richard & Walt,

I didn't specify RF or IC, did I? I meant RF. I found VR11 (VR10 is Anti-Vox in my destruction manual) on the schematic, but was unable to locate it on the radio.

Turns out that the service manual just calls it "RF Meter Pot." and shows it (of course) on the rear panel (Adjustments, p. 41, #22). Lo and behold, there it was, and I now have sufficient indication on the earlier-stingy meter.

I had been concerned that there were more serious problems when, during the course of repairing the tank bandswitch coupling, I found all four screen bias resistors (R2,3,4 & 5) smoked. Wonder it worked at all. Replaced those. Radio's fine, now.

Thank you, gentlemen, for permitting me to learn something today.

73,
Max, K5OVW

Walt Breining wrote:

> Is your meter switch in the RF position or IC position ?
> If it is in the RF position you are not reading IC but are reading
> relative RF output. Set this with VR-10, not 11 so it reads 3/4 scale
> with full output.
> If this is occurring in the IC position, you may have problems with
> the cathode resistors as Richard Harris suggested. Check to see if
> someone may have bypassed them after they opened, a very bad thing to
> do. If this has happened, they will need to be replaced.
>
> Walt N9WB
>

8403. New ham / Looking for info on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-27 23:30:27 UTC
From: Joseph Hayes
Topic: 8370 Message: 8403

Hi all,

I just got my Technician license a few months ago and since then, I've picked up a few military radios to play with on 6M and 29.6 Mhz FM.

Here's a picture of the "shack":
http://i4.photobucket.com/albums/y126/von_landstuhl/shack.jpg

I'm looking to get an HF rig and a co-worker has suggested the TS-830S. I already know not to pay more for the Gold Edition, so we don't have to go there. I want to work with Army MARS someday and would like to confirm something I read. Is it true the TS-830S can work outside the ham bands by installing a crystal in the bottom and pushing in the FIX button? If so, does this allow a range of frequencies or just the one freq?

It seems prices run around $400 on eBay, but I'm reluctant to spend that much money there because I don't want to get burned. Are there any reputable shops that tend to have them in stock?

Is there anything I should know before buying?

Thanks,
Joe
KD8DBJ

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8404. Re: New ham / Looking for info on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 00:11:53 UTC
From: wb7_ssn
Topic: 8370 Message: 8404

Joe,

Very unusial station. I like it! I have a R-391 Receiver and I'm looking for a quality military transmitter to pair up with it. It will complement my TS-520ES. I don't have much military gear, but I like it and plan on getting more in the future.

Best,
DW Holtman
WB7SSN

--- In TS-520_820_530_830@yahoogroups.com, Joseph Hayes <von_landstuhl@...> wrote:
>
>
> Hi all,
>
> I just got my Technician license a few months ago and since then, I've
> picked up a few military radios to play with on 6M and 29.6 Mhz FM.
>
> Here's a picture of the "shack":
> http://i4.photobucket.com/albums/y126/von_landstuhl/shack.jpg
>
> I'm looking to get an HF rig and a co-worker has suggested the TS-830S.
> I already know not to pay more for the Gold Edition, so we don't have
> to go there. I want to work with Army MARS someday and would like to
> confirm something I read. Is it true the TS-830S can work outside the
> ham bands by installing a crystal in the bottom and pushing in the FIX
> button? If so, does this allow a range of frequencies or just the one
> freq?
>
> It seems prices run around $400 on eBay, but I'm reluctant to spend
> that much money there because I don't want to get burned. Are there
> any reputable shops that tend to have them in stock?
>
> Is there anything I should know before buying?
>
> Thanks,
> Joe
> KD8DBJ
>
>
> ---
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

>

8405. Re: New ham / Looking for info on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 00:26:49 UTC
From: Ellen R
Topic: 8370 Message: 8405

Hi Joe,

I remember you from the Yahoo Armyradios group. Since most Mars freqs. are relatively close to the HF ham bands, yes more than likely all you'd need to do is add crystals in the fixed channels, and do the usual tuning procedure these rigs require. Walt, and Bill can probably answer this better than me.

By the way, you, mentioned having milradios for operating on 6m, and 29.6 MHz (10m) FM. Are you working to upgrade to General? Because while you can operate on 6m FM as a Tech, even as a Tech with HF priveleges (which requires passing the 5 WPM code test, giving you the same priveleges as the old Tech Plus license), you cannot operate on 10m FM (although you can operate 10m SSB from 28.3 to 28.5 MHz, and CW in the old HF Novice bands). For 10m FM, you need to be a General or higher class licensee.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Joseph Hayes <von_landstuhl@...> wrote:
>
>
> Hi all,
>
> I just got my Technician license a few months ago and since then, I've
> picked up a few military radios to play with on 6M and 29.6 Mhz FM.
>
> Here's a picture of the "shack":
> http://i4.photobucket.com/albums/y126/von_landstuhl/shack.jpg
>
> I'm looking to get an HF rig and a co-worker has suggested the TS-830S.
> I already know not to pay more for the Gold Edition, so we don't have
> to go there. I want to work with Army MARS someday and would like to
> confirm something I read. Is it true the TS-830S can work outside the
> ham bands by installing a crystal in the bottom and pushing in the FIX
> button? If so, does this allow a range of frequencies or just the one
> freq?

>
> It seems prices run around $400 on eBay, but I'm reluctant to spend
> that much money there because I don't want to get burned. Are there
> any reputable shops that tend to have them in stock?
>
> Is there anything I should know before buying?
>
> Thanks,
> Joe
> KD8DBJ
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

8406. Re: [TS-520_820_530_830] Meter Readings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 06:29:45 UTC
From: Walt Breining
Topic: 8395 Message: 8406

The screen bias resistors is a common problem with these 4 radio models.
Vy 73, Walt N9WB

----- Original Message -----
From: Max Harelik
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, July 27, 2006 5:06 PM
Subject: Re: [TS-520_820_530_830] Meter Readings

Richard & Walt,

I didn't specify RF or IC, did I? I meant RF. I found VR11 (VR10 is Anti-Vox in my destruction manual) on the schematic, but was unable to locate it on the radio.

Turns out that the service manual just calls it "RF Meter Pot." and shows it (of course) on the rear panel (Adjustments, p. 41, #22). Lo and behold, there it was, and I now have sufficient indication on the earlier-stingy meter.

I had been concerned that there were more serious problems when, during the course of repairing the tank bandswitch coupling, I found all four screen bias resistors (R2,3,4 & 5) smoked. Wonder it worked at all. Replaced those. Radio's fine, now.

Thank you, gentlemen, for permitting me to learn something today.

73,
Max, K5OVW

Walt Breining wrote:

> Is your meter switch in the RF position or IC position ?
> If it is in the RF position you are not reading IC but are reading
> relative RF output. Set this with VR-10, not 11 so it reads 3/4 scale
> with full output.
> If this is occurring in the IC position, you may have problems with
> the cathode resistors as Richard Harris suggested. Check to see if
> someone may have bypassed them after they opened, a very bad thing to
> do. If this has happened, they will need to be replaced.
>
> Walt N9WB
>

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06

[Non-text portions of this message have been removed]

8407. Re: [TS-520_820_530_830] Re: New ham / Looking for info on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 01:43:09 UTC
From: Joseph Hayes
Topic: 8370 Message: 8407

--- Ellen R <ellenjoanne2003@...> wrote:
> By the way, you, mentioned having milradios for operating on 6m, and
> 29.6 MHz (10m) FM. Are you working to upgrade to General? For 10m
> FM, you need to be a General or higher class licensee.

I'm not working on General yet, so right now, I just listen. I debated clarifying that I don't transmit, but I figured you guys would know that I'm not allowed there. ;)

Thanks,
Joe
KD8DBJ

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8408. Re: [TS-520_820_530_830] Re: New ham / Looking for info on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 14:25:02 UTC
From: Bill Leahy
Topic: 8370 Message: 8408

Last time I worked a guy on one of those green radios, it was actually in a tank!

1970s, on 29.600, heard someone going "Hello, test, test..." and a funny callsign.. I answered him, and he was at some Army or Army Guard base in the Southeast, working on a tank radio! Not a ham, but hey I will talk to military ops if they come up on frequency. Anyway we had a real nice, but short conversation; he told me that the only activity they ever heard on their radios was on this frequency and they were hams and it was fun listening to us, and he wondered if that was legal or not! Talk about the pot callin' the kettle black; anyway I 'splained to him what wazzup with 29.6, and invited him to contact me about getting a ham ticket! Never heard from him again but I hope I planted the seed!

k0zl

29.6 with HTX-10, dedicated 1/2 wave vert

On 7/27/06, Joseph Hayes <von_landstuhl@...> wrote:
>
>
> --- Ellen R <ellenjoanne2003@...<ellenjoanne2003%40sbcglobal.net>>
> wrote:
> > By the way, you, mentioned having milradios for operating on 6m, and
> > 29.6 MHz (10m) FM. Are you working to upgrade to General? For 10m
>
> > FM, you need to be a General or higher class licensee.
>
> I'm not working on General yet, so right now, I just listen. I debated
> clarifying that I don't transmit, but I figured you guys would know
> that I'm not allowed there. ;)
>
>
> Thanks,
> Joe
> KD8DBJ
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>

[Non-text portions of this message have been removed]

8409. Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 16:16:48 UTC
From: Ruben Echevarria
Topic: 8409 Message: 8409

Can someone please recommend someone that really knows Kenwood Rigs. I sent out my TS830S because of a no TX problem and now the tech? claims that he can't fix it because he doesn't have a sweep generator. Person also claimed
that someone had "fiddled' around as he put it with the slugs. Not true, I've had that rig for at least 15 years and never
had I touched anything inside the rig other than changing the finals. So I've wasted money shipping the rig to him and now
he wants some cash for the work the he claims he did but I still don't have a working rig???? Out of respect for him I won't disclose his name or call, but never will I recommend. Anyway I don't want to lose the rig but I need someone that is competent
and has the proper equipment for making repairs. It's been 3 months (at least) maybe more of waiting and now nothing.

973-484-2706
Ruben Echevarria
New Jersey USA
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

8410. Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 20:40:21 UTC
From: Gordon
Topic: 8409 Message: 8410

Ruben,
Check with Bill right here on this Group. He is the Owner.
I repair 830's and 820's but mostly just for myself. Once I have them all aligned and cleaned, I then re-sell them and buy others.
If the Tech didn't have the Equipment to fix it, He should send it back to you with NO charge and with a full refund on your shipping also. (IMHO)
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Can someone please recommend someone that really knows Kenwood Rigs. I sent out my TS830S because of a no TX problem and now the tech? claims that he can't fix it because he doesn't have a sweep generator. Person also claimed
> that someone had "fiddled' around as he put it with the slugs. Not true, I've had that rig for at least 15 years and never
> had I touched anything inside the rig other than changing the finals. So I've wasted money shipping the rig to him and now
> he wants some cash for the work the he claims he did but I still don't have a working rig???? Out of respect for him I won't disclose his name or call, but never will I recommend. Anyway I don't want to lose the rig but I need someone that is competent
> and has the proper equipment for making repairs. It's been 3 months (at least) maybe more of waiting and now nothing.
>
>
> 973-484-2706
> Ruben Echevarria
> New Jersey USA
> ka2hhb_2000@...
> exracer1@...
>
> [Non-text portions of this message have been removed]
>

8411. Re: TS-520S Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-28 22:39:12 UTC
From: james27613
Topic: 8398 Message: 8411

hi,

the manuals I sent to RUBE hamftp
were 400 dpi digital scans.

also manuals here

http://www.n6wk.com/kenwood

73 james ke4dɪn

8412. Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 02:57:23 UTC
From: Ruben
Topic: 8409 Message: 8412

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ruben,
> Check with Bill right here on this Group. He is the Owner.
> I repair 830's and 820's but mostly just for myself. Once I have
them
> all aligned and cleaned, I then re-sell them and buy others.
> If the Tech didn't have the Equipment to fix it, He should send
it
> back to you with NO charge and with a full refund on your shipping
> also. (IMHO)
> Gordon
> N6WK
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
> <ka2hhb_2000@> wrote:
> >
> > Can someone please recommend someone that really knows Kenwood
Rigs.
> I sent out my TS830S because of a no TX problem and now the tech?
> claims that he can't fix it because he doesn't have a sweep
generator.
> Person also claimed
> > that someone had "fiddled' around as he put it with the slugs.
Not
> true, I've had that rig for at least 15 years and never
> > had I touched anything inside the rig other than changing the
> finals. So I've wasted money shipping the rig to him and now
> > he wants some cash for the work the he claims he did but I still
> don't have a working rig???? Out of respect for him I won't
disclose
> his name or call, but never will I recommend. Anyway I don't want
to
> lose the rig but I need someone that is competent
> > and has the proper equipment for making repairs. It's been 3
months
> (at least) maybe more of waiting and now nothing.
> >
> >
> > 973-484-2706
> > Ruben Echevarria
> > New Jersey USA
> > ka2hhb_2000@
> > exracer1@

> >
> > [Non-text portions of this message have been removed]
> >
>
Thanks Gordon for the reply. As you can see I'm pretty upset about
the whole deal. Guess you can't go by pretty web sites that some
people put together (it was quite impressive). Well anyway Bill
if you see this post please contact me if you don't mind. I'd like
to get my 830 working again. What gets me is the first email I got
from this person he said " yes Ruben this ones a keeper" guess that
should have been the tip off but I gave him the benefit of the
doubt. And I agree if I sent it in for repair and he's not returning
it in PROPER working condition then I should not have to pay. I sent
it in good faith with the expectation that it would be repaired by
what I thought and believed was a competent tech and am not getting
that in return. Thanks guys for listening...Ruben 73 fer now...
Let's see how this soap opera ends....

8413. TS-520S external VFO Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 15:37:50 UTC
From: Sergio Potes
Topic: 8413 Message: 8413

I Have a TS-520S VFO and it works fine, exept that when I turn the the external vfo switch to off the dg-5 shows no display. Has any one come up with this problem? solutions?
Thank you in advance. Sergio AE4TO

A TS-520 Fan:One TS-520S & One TS-520SE, well Tentec Too.

8414. TS-520 SE WWWV reception adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 15:46:26 UTC
From: Sergio Potes
Topic: 8414 Message: 8414

I Have a TS-520SE a beauty...love the radio.
I can't hear a thing on 15000. Has anyone adjust the radio for reception of wwwv. I will like to have some guidance on how to do it right.
A Kenwood fan, yes Ten Tec too.
Cheers! Sergio AE4TO

8415. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 18:24:57 UTC
From: Walt Breining
Topic: 8409 Message: 8415

Sounds like he is feeding you hogwash to me. Why do you need a sweep generator to fix an 830? Hope that he hasn't messed it up too bad.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, July 28, 2006 3:40 PM
Subject: [TS-520_820_530_830] Re: Help TS830S Repair

Ruben,
Check with Bill right here on this Group. He is the Owner.
I repair 830's and 820's but mostly just for myself. Once I have them all aligned and cleaned, I then re-sell them and buy others.
If the Tech didn't have the Equipment to fix it, He should send it back to you with NO charge and with a full refund on your shipping also. (IMHO)
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Can someone please recommend someone that really knows Kenwood Rigs. I sent out my TS830S because of a no TX problem and now the tech? claims that he can't fix it because he doesn't have a sweep generator. Person also claimed
> that someone had "fiddled' around as he put it with the slugs. Not true, I've had that rig for at least 15 years and never
> had I touched anything inside the rig other than changing the finals. So I've wasted money shipping the rig to him and now
> he wants some cash for the work the he claims he did but I still don't have a working rig???? Out of respect for him I won't disclose his name or call, but never will I recommend. Anyway I don't want to lose the rig but I need someone that is competent
> and has the proper equipment for making repairs. It's been 3 months (at least) maybe more of waiting and now nothing.
>
>
> 973-484-2706
> Ruben Echevarria
> New Jersey USA
> ka2hhb_2000@...
> exracer1@...
>

> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06

[Non-text portions of this message have been removed]

8416. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 17:31:26 UTC
From: Ruben Echevarria
Topic: 8409 Message: 8416

Thanks Walt I feel the same way .... I think I'm going to have to get legal on him .....
Quick question if I file suit, would the venue be in my state or his? Maybe someone can answer
this question?

973-484-2706
Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Walt Breining <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 29, 2006 2:24:57 PM
Subject: Re: [TS-520_820_530_830] Re: Help TS830S Repair

Sounds like he is feeding you hogwash to me. Why do you need a sweep generator to fix an 830? Hope that he hasn't messed it up too bad.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, July 28, 2006 3:40 PM
Subject: [TS-520_820_ 530_830] Re: Help TS830S Repair

Ruben,
Check with Bill right here on this Group. He is the Owner.
I repair 830's and 820's but mostly just for myself. Once I have them
all aligned and cleaned, I then re-sell them and buy others.
If the Tech didn't have the Equipment to fix it, He should send it
back to you with NO charge and with a full refund on your shipping
also. (IMHO)
Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Can someone please recommend someone that really knows Kenwood Rigs.
I sent out my TS830S because of a no TX problem and now the tech?
claims that he can't fix it because he doesn't have a sweep generator.
Person also claimed
> that someone had "fiddled' around as he put it with the slugs. Not
true, I've had that rig for at least 15 years and never
> had I touched anything inside the rig other than changing the

finals. So I've wasted money shipping the rig to him and now
> he wants some cash for the work the he claims he did but I still
don't have a working rig???? Out of respect for him I won't disclose
his name or call, but never will I recommend. Anyway I don't want to
lose the rig but I need someone that is competent
> and has the proper equipment for making repairs. It's been 3 months
(at least) maybe more of waiting and now nothing.
>
>
> 973-484-2706
> Ruben Echevarria
> New Jersey USA
> ka2hhb_2000@ ...
> exracer1@...
>
> [Non-text portions of this message have been removed]
>

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8417. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 18:44:11 UTC
From: Walt Breining
Topic: 8409 Message: 8417

I would contact the Attorney General's office in HIS state.
Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 29, 2006 12:31 PM
Subject: Re: [TS-520_820_530_830] Re: Help TS830S Repair

Thanks Walt I feel the same way .... I think I'm going to have to get legal on him .....
Quick question if I file suit, would the venue be in my state or his? Maybe someone can answer
this question?

973-484-2706
Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Walt Breining <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 29, 2006 2:24:57 PM
Subject: Re: [TS-520_820_530_830] Re: Help TS830S Repair

Sounds like he is feeding you hogwash to me. Why do you need a sweep generator to fix an 830? Hope that he hasn't messed it up too bad.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, July 28, 2006 3:40 PM
Subject: [TS-520_820_ 530_830] Re: Help TS830S Repair

Ruben,
Check with Bill right here on this Group. He is the Owner.
I repair 830's and 820's but mostly just for myself. Once I have them
all aligned and cleaned, I then re-sell them and buy others.
If the Tech didn't have the Equipment to fix it, He should send it
back to you with NO charge and with a full refund on your shipping
also. (IMHO)
Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Can someone please recommend someone that really knows Kenwood Rigs.
I sent out my TS830S because of a no TX problem and now the tech?
claims that he can't fix it because he doesn't have a sweep generator.
Person also claimed
> that someone had "fiddled' around as he put it with the slugs. Not
true, I've had that rig for at least 15 years and never
> had I touched anything inside the rig other than changing the
finals. So I've wasted money shipping the rig to him and now
> he wants some cash for the work the he claims he did but I still
don't have a working rig???? Out of respect for him I won't disclose
his name or call, but never will I recommend. Anyway I don't want to
lose the rig but I need someone that is competent
> and has the proper equipment for making repairs. It's been 3 months
(at least) maybe more of waiting and now nothing.
>
>
> 973-484-2706
> Ruben Echevarria
> New Jersey USA
> ka2hhb_2000@ ...
> exracer1@...
>
> [Non-text portions of this message have been removed]
>

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.5/403 - Release Date: 7/28/06

[Non-text portions of this message have been removed]

8418. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 17:51:07 UTC
From: dave@zievid.com
Topic: 8409 Message: 8418

Check out the service manual - you need a sweep generator to do a full alignment on these radios. If I remember right, it needs to go up to around 35mhz and you adjust a few coils to get a passband response curve to the correct shape.

I forget which board gets the adjustments and I don't know if that's even needed for a TX issue.

I think the shop should invest a few hundred bucks in a sweep generator so they can do the job right, or send it back to you at no change.

My $0.02,
- Dave
W6OT

> Sounds like he is feeding you hogwash to me. Why do you need a sweep
> generator to fix an 830? Hope that he hasn't messed it up too bad.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, July 28, 2006 3:40 PM
> Subject: [TS-520_820_530_830] Re: Help TS830S Repair
>
>
> Ruben,
> Check with Bill right here on this Group. He is the Owner.
> I repair 830's and 820's but mostly just for myself. Once I have them
> all aligned and cleaned, I then re-sell them and buy others.
> If the Tech didn't have the Equipment to fix it, He should send it
> back to you with NO charge and with a full refund on your shipping
> also. (IMHO)
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
> <ka2hhb_2000@...> wrote:
> >
> > Can someone please recommend someone that really knows Kenwood Rigs.
> I sent out my TS830S because of a no TX problem and now the tech?
> claims that he can't fix it because he doesn't have a sweep generator.
> Person also claimed
> > that someone had "fiddled' around as he put it with the slugs. Not
> true, I've had that rig for at least 15 years and never

> > had I touched anything inside the rig other than changing the
> finals. So I've wasted money shipping the rig to him and now
> > he wants some cash for the work the he claims he did but I still
> don't have a working rig???? Out of respect for him I won't disclose
> his name or call, but never will I recommend. Anyway I don't want to
> lose the rig but I need someone that is competent
> > and has the proper equipment for making repairs. It's been 3 months
> (at least) maybe more of waiting and now nothing.
> >
> >
> > 973-484-2706
> > Ruben Echevarria
> > New Jersey USA
> > ka2hhb_2000@...
> > exracer1@...
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06
>
>
> [Non-text portions of this message have been removed]
>
>

8419. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 17:47:11 UTC
From: Ruben Echevarria
Topic: 8409 Message: 8419

OK Walt TNX for that info....Will do when the time comes... compiling all correspondence with said person
as we speak. It was real simple now I'm going to have to complicate things a bit.... Best 73 to u

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Walt Breining <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 29, 2006 2:44:11 PM
Subject: Re: [TS-520_820_530_830] Re: Help TS830S Repair

I would contact the Attorney General's office in HIS state.
Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, July 29, 2006 12:31 PM
Subject: Re: [TS-520_820_ 530_830] Re: Help TS830S Repair

Thanks Walt I feel the same way .... I think I'm going to have to get legal on him .....
Quick question if I file suit, would the venue be in my state or his? Maybe someone can answer
this question?

973-484-2706
Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Walt Breining <n9wb@...>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, July 29, 2006 2:24:57 PM
Subject: Re: [TS-520_820_ 530_830] Re: Help TS830S Repair

Sounds like he is feeding you hogwash to me. Why do you need a sweep generator to fix an 830? Hope that he hasn't messed it up too bad.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon

To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, July 28, 2006 3:40 PM
Subject: [TS-520_820_ 530_830] Re: Help TS830S Repair

Ruben,
Check with Bill right here on this Group. He is the Owner.
I repair 830's and 820's but mostly just for myself. Once I have them
all aligned and cleaned, I then re-sell them and buy others.
If the Tech didn't have the Equipment to fix it, He should send it
back to you with NO charge and with a full refund on your shipping
also. (IMHO)
Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Can someone please recommend someone that really knows Kenwood Rigs.
I sent out my TS830S because of a no TX problem and now the tech?
claims that he can't fix it because he doesn't have a sweep generator.
Person also claimed
> that someone had "fiddled' around as he put it with the slugs. Not
true, I've had that rig for at least 15 years and never
> had I touched anything inside the rig other than changing the
finals. So I've wasted money shipping the rig to him and now
> he wants some cash for the work the he claims he did but I still
don't have a working rig???? Out of respect for him I won't disclose
his name or call, but never will I recommend. Anyway I don't want to
lose the rig but I need someone that is competent
> and has the proper equipment for making repairs. It's been 3 months
(at least) maybe more of waiting and now nothing.
>
>
> 973-484-2706
> Ruben Echevarria
> New Jersey USA
> ka2hhb_2000@ ...
> exracer1@...
>
> [Non-text portions of this message have been removed]
>

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.5/403 - Release Date: 7/28/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8420. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 18:10:59 UTC
From: Ruben Echevarria
Topic: 8409 Message: 8420

Ok Dave I understand, thing is that this person claims on his web site that he does full restorations on Kenwood rigs and full alignments. So if that's the case then he should have the proper equipment to actually do this. If not then he's misrepresenting
his abilities and qualifications as I see it. I sent the rig to him based on all of this and actually speaking to him on the phone.
All done in good faith. I would understand if the rig had somehow burned or blown up in some manner, but none of this occured. Just one one day I fired it up and couldn't load and no TX or ALC, RX was fine all bands. I didn't want to play around with it myself because the rig means a lot to me. So I sent it out to him. Now way over 3 months later the verdict is that as he put it " throwing the towel in " claims he has over $700.00 worth of time in it, but will only charge me $100.00
plus shipping to get it back to me...Now that really sucks in my opinion .... I'm disabled and on SS so my funds are very limited
and now I have to give this guy $$$$ for nothing (sounds like a song to me lol) and still don't have a working rig. I have a TS50
that I'm using but I really want my 830 .... Guys thanks for listening and for the advice ..... Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: dave@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, July 29, 2006 1:51:07 PM
Subject: Re: [TS-520_820_530_830] Re: Help TS830S Repair

Check out the service manual - you need a sweep generator to do a full
alignment on these radios. If I remember right, it needs to go up to
around 35mhz and you adjust a few coils to get a passband response curve
to the correct shape.

I forget which board gets the adjustments and I don't know if that's even
needed for a TX issue.

I think the shop should invest a few hundred bucks in a sweep generator so
they can do the job right, or send it back to you at no change.

My $0.02,
- Dave
W6OT

> Sounds like he is feeding you hogwash to me. Why do you need a sweep
> generator to fix an 830? Hope that he hasn't messed it up too bad.
>
> Vy 73, Walt N9WB

>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, July 28, 2006 3:40 PM
> Subject: [TS-520_820_ 530_830] Re: Help TS830S Repair
>
>
> Ruben,
> Check with Bill right here on this Group. He is the Owner.
> I repair 830's and 820's but mostly just for myself. Once I have them
> all aligned and cleaned, I then re-sell them and buy others.
> If the Tech didn't have the Equipment to fix it, He should send it
> back to you with NO charge and with a full refund on your shipping
> also. (IMHO)
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > Can someone please recommend someone that really knows Kenwood Rigs.
> I sent out my TS830S because of a no TX problem and now the tech?
> claims that he can't fix it because he doesn't have a sweep generator.
> Person also claimed
> > that someone had "fiddled' around as he put it with the slugs. Not
> true, I've had that rig for at least 15 years and never
> > had I touched anything inside the rig other than changing the
> finals. So I've wasted money shipping the rig to him and now
> > he wants some cash for the work the he claims he did but I still
> don't have a working rig???? Out of respect for him I won't disclose
> his name or call, but never will I recommend. Anyway I don't want to
> lose the rig but I need someone that is competent
> > and has the proper equipment for making repairs. It's been 3 months
> (at least) maybe more of waiting and now nothing.
> >
> >
> > 973-484-2706
> > Ruben Echevarria
> > New Jersey USA
> > ka2hhb_2000@ ...
> > exracer1@...
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>

>
> ------------ --------- --------- --------- --------- --------- -
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date: 7/27/06
>
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

8421. transverters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 19:48:56 UTC
From: yash@aol.com
Topic: 8421 Message: 8421

Have a beautiful ts-830s station,would like to add a 6 meter and 2 meter transverter. Want to keep every thing kenwood....so. I know I can do this any number of ways using other than kenwood transverters. But being that I want to stay kenwood does anybody know of any files,mods ,sites etc. that cover mods for using any of the many kenwood transverters with the ts-830. All my searches have come up) so far. I was able to do this with my ft-102, there were also no transverters for that rig also. Finally found a conversion ala,yaesu service done 20 years ago. I can't beleive that when the 830 came out everybody just dumped their transverters from the earlier rigs.
thanks for any help on this.
dale wt4t

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

[Non-text portions of this message have been removed]

8422. Question on type of connector

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 20:54:11 UTC
From: freebird2136117
Topic: 8422 Message: 8422

I acquired a sp-230 to go with my TS-830 but I am missing the
cable ,,,, does anyone know what size or type connector is on the radio
end looks like a regular rca on the speaker end,,, Thanks

8423. Re: Question on type of connector

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 22:12:12 UTC
From: Ruben
Topic: 8422 Message: 8423

--- In TS-520_820_530_830@yahoogroups.com, "freebird2136117"
<freebird2136117@...> wrote:
>
> I acquired a sp-230 to go with my TS-830 but I am missing the
> cable ,,,, does anyone know what size or type connector is on the
radio
> end looks like a regular rca on the speaker end,,, Thanks
>

It's an RCA connector ......

8424. Re: [TS-520_820_530_830] Re: Question on type of connector

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 23:45:43 UTC
From: Peter A Markavage
Topic: 8422 Message: 8424

External speaker connection on the 830 is made via a miniature plug, not
an "RCA" or a phono plug. Phono plug connection is on the SP-230.

Pete, wa2cwa

On Sat, 29 Jul 2006 22:12:12 -0000 "Ruben" <ka2hhb_2000@...>
writes:
> --- In TS-520_820_530_830@yahoogroups.com, "freebird2136117"
> <freebird2136117@...> wrote:
> >
> > I acquired a sp-230 to go with my TS-830 but I am missing the
> > cable ,,,, does anyone know what size or type connector is on the
>
> radio
> > end looks like a regular rca on the speaker end,,, Thanks
> >
>
> It's an RCA connector ......
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

8425. Re: [TS-520_820_530_830] transverters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-29 23:58:56 UTC
From: Peter A Markavage
Topic: 8421 Message: 8425

You said, "using any of the many kenwood transverters with the ts-830"
I find only two; TV-502/502S for 2 meters and the TV-506 for 6 meters in
the past Kenwood line. What other ones do you know of? No Kenwood
transverters were designed for the 830. The 830 does not provide any
external connections for various voltages that are required for the
TV-502/506, and some of the "other" transverters.

However, the 830 does provide transverter in/out connections via the
accessory jack.

Pete, wa2cwa

On Sat, 29 Jul 2006 15:48:56 -0400 yash@... writes:
> Have a beautiful ts-830s station,would like to add a 6 meter and 2
> meter transverter. Want to keep every thing kenwood....so. I know I
> can do this any number of ways using other than kenwood
> transverters. But being that I want to stay kenwood does anybody
> know of any files,mods ,sites etc. that cover mods for using any of
> the many kenwood transverters with the ts-830. All my searches have
> come up) so far. I was able to do this with my ft-102, there were
> also no transverters for that rig also. Finally found a conversion
> ala,yaesu service done 20 years ago. I can't beleive that when the
> 830 came out everybody just dumped their transverters from the
> earlier rigs.
> thanks for any help on this.
> dale wt4t

8426. Re: [TS-520_820_530_830] transverters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-30 00:51:24 UTC
From: yash@aol.com
Topic: 8421 Message: 8426

Pete
your right,kept thinking there were a few others,guess not. Were not all the transverters solid state? Will download the manuals from rig pix and look . If one din;t need to supply bias and b+ then were just talking about line in and out and maybe alc control? Like I said ,I did a 1 page converson to a yaesu tv,that was for a 901 and got it working fine with a ft102. Just a idea at this point. Time for a little more research.
dale

-----Original Message-----
From: pmarkavage@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 29 Jul 2006 7:58 PM
Subject: Re: [TS-520_820_530_830] transverters

You said, "using any of the many kenwood transverters with the ts-830"
I find only two; TV-502/502S for 2 meters and the TV-506 for 6 meters in
the past Kenwood line. What other ones do you know of? No Kenwood
transverters were designed for the 830. The 830 does not provide any
external connections for various voltages that are required for the
TV-502/506, and some of the "other" transverters.

However, the 830 does provide transverter in/out connections via the
accessory jack.

Pete, wa2cwa

On Sat, 29 Jul 2006 15:48:56 -0400 yash@... writes:
> Have a beautiful ts-830s station,would like to add a 6 meter and 2
> meter transverter. Want to keep every thing kenwood....so. I know I
> can do this any number of ways using other than kenwood
> transverters. But being that I want to stay kenwood does anybody
> know of any files,mods ,sites etc. that cover mods for using any of
> the many kenwood transverters with the ts-830. All my searches have
> come up) so far. I was able to do this with my ft-102, there were
> also no transverters for that rig also. Finally found a conversion
> ala,yaesu service done 20 years ago. I can't beleive that when the
> 830 came out everybody just dumped their transverters from the
> earlier rigs.
> thanks for any help on this.
> dale wt4t

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

8427. Re: [TS-520_820_530_830] transverters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-30 02:34:22 UTC
From: Peter A Markavage
Topic: 8421 Message: 8427

The tranverters are all solid-state.
QST Nov. 1985, page 59, "TV-502/506 Transverters with New TS
Transceivers", article might help to determine compatibility and
requirements to use one of these transverters with the 830.

Pete, wa2cwa

On Sat, 29 Jul 2006 20:51:24 -0400 yash@... writes:
> Pete
> your right,kept thinking there were a few others,guess not. Were
> not all the transverters solid state? Will download the manuals from
> rig pix and look . If one din;t need to supply bias and b+ then were
> just talking about line in and out and maybe alc control? Like I
> said ,I did a 1 page converson to a yaesu tv,that was for a 901 and
> got it working fine with a ft102. Just a idea at this point. Time
> for a little more research.
> dale
>
> -----Original Message-----
> From: pmarkavage@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sat, 29 Jul 2006 7:58 PM
> Subject: Re: [TS-520_820_530_830] transverters
>
> You said, "using any of the many kenwood transverters with the
> ts-830"
> I find only two; TV-502/502S for 2 meters and the TV-506 for 6
> meters in
> the past Kenwood line. What other ones do you know of? No Kenwood
> transverters were designed for the 830. The 830 does not provide
> any
> external connections for various voltages that are required for
> the
> TV-502/506, and some of the "other" transverters.
>
> However, the 830 does provide transverter in/out connections via
> the
> accessory jack.
>
> Pete, wa2cwa
>
> On Sat, 29 Jul 2006 15:48:56 -0400 yash@... writes:
> > Have a beautiful ts-830s station,would like to add a 6 meter and
> 2
> > meter transverter. Want to keep every thing kenwood....so. I know

> I
> > can do this any number of ways using other than kenwood
> > transverters. But being that I want to stay kenwood does anybody
>
> > know of any files,mods ,sites etc. that cover mods for using any
> of
> > the many kenwood transverters with the ts-830. All my searches
> have
> > come up) so far. I was able to do this with my ft-102, there
> were
> > also no transverters for that rig also. Finally found a
> conversion
> > ala,yaesu service done 20 years ago. I can't beleive that when the
>
> > 830 came out everybody just dumped their transverters from the
> > earlier rigs.
> > thanks for any help on this.
> > dale wt4t

8428. Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-30 16:30:09 UTC
From: Ellen R
Topic: 8428 Message: 8428

Hi Everybody,

I have a question for the group. As you know, there are vintage nets for Collins, Swan, Heathkit, etc. Are there any vintage nets for Kenwoods. If so, what are the nets' names, and what days, times, and freqs. do they meet on-the-air?

Thanks,
Ellen - AF9J

8429. Re: [TS-520_820_530_830] Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-30 17:25:33 UTC
From: Peter A Markavage
Topic: 8428 Message: 8429

One upon a time there was a very active Kenwood User's Net on 14.317 that met every Sunday. It was started by the previous owner of International Radio (Rod somebody). It started in the early 80's and ran till the mid to late 90's. When he moved on to other prospects, the net faded away. I know of no other active Kenwood net, much less a "vintage" Kenwood net.

Of course, in today's times, one would have to define what "vintage" Kenwood rigs would fall under the name "Kenwood Vintage Net" if you had one. With e-mail reflectors, web sites, et al, one would wonder what advantages a "net" would have.

Pete, wa2cwa

On Sun, 30 Jul 2006 16:30:09 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Hi Everybody,
>
> I have a question for the group. As you know, there are vintage
> nets
> for Collins, Swan, Heathkit, etc. Are there any vintage nets for
> Kenwoods. If so, what are the nets' names, and what days, times,
> and
> freqs. do they meet on-the-air?
>
> Thanks,
> Ellen - AF9J

8430. Re: [TS-520_820_530_830] Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-30 23:53:53 UTC
From: Dave and Loraine
Topic: 8428 Message: 8430

Hi Ellen,
Looks like you got the job!
Set-up a sked and lets see what happens.
73 Dave F4EYK

8431. re: transverters TV-502 and TV-506

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-30 23:56:23 UTC
From: james27613
Topic: 8422 Message: 8431

hi,

I sent the transverter manuals to n6wk,
400 dpi digital scans in PDF with schematics
he has a nice collection of kenwood manuals

http://www.n6wk.com/kenwood/

73 james ke4dɪn

8432. Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 04:58:01 UTC
From: Gordon
Topic: 8409 Message: 8432

Dave,
That is true, But you would NOT need one to fix a TX problem.
The guy is Blowing Smoke !!

Gordon

--- In TS-520_820_530_830@yahoogroups.com, dave@... wrote:
>
> Check out the service manual - you need a sweep generator to do a full
> alignment on these radios. If I remember right, it needs to go up to
> around 35mhz and you adjust a few coils to get a passband response curve
> to the correct shape.
>
> I forget which board gets the adjustments and I don't know if that's
even
> needed for a TX issue.
>
> I think the shop should invest a few hundred bucks in a sweep
generator so
> they can do the job right, or send it back to you at no change.
>
> My $0.02,
> - Dave
> W6OT
>
>
>
> > Sounds like he is feeding you hogwash to me. Why do you need a sweep
> > generator to fix an 830? Hope that he hasn't messed it up too bad.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, July 28, 2006 3:40 PM
> > Subject: [TS-520_820_530_830] Re: Help TS830S Repair
> >
> >
> > Ruben,
> > Check with Bill right here on this Group. He is the Owner.
> > I repair 830's and 820's but mostly just for myself. Once I have
them
> > all aligned and cleaned, I then re-sell them and buy others.
> > If the Tech didn't have the Equipment to fix it, He should send it

> > back to you with NO charge and with a full refund on your shipping
> > also. (IMHO)
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
> > <ka2hhb_2000@> wrote:
> > >
> > > Can someone please recommend someone that really knows Kenwood
Rigs.
> > I sent out my TS830S because of a no TX problem and now the tech?
> > claims that he can't fix it because he doesn't have a sweep
generator.
> > Person also claimed
> > > that someone had "fiddled' around as he put it with the slugs. Not
> > true, I've had that rig for at least 15 years and never
> > > had I touched anything inside the rig other than changing the
> > finals. So I've wasted money shipping the rig to him and now
> > > he wants some cash for the work the he claims he did but I still
> > don't have a working rig???? Out of respect for him I won't disclose
> > his name or call, but never will I recommend. Anyway I don't want to
> > lose the rig but I need someone that is competent
> > > and has the proper equipment for making repairs. It's been 3
months
> > (at least) maybe more of waiting and now nothing.
> > >
> > >
> > > 973-484-2706
> > > Ruben Echevarria
> > > New Jersey USA
> > > ka2hhb_2000@
> > > exracer1@
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> >
> >

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.394 / Virus Database: 268.10.4/402 - Release Date:
7/27/06
> >

> >
> > [Non-text portions of this message have been removed]
> >
> >
>

8433. Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 13:00:37 UTC
From: Ellen R
Topic: 8428 Message: 8433

Ohhhhh, Okaayyyyy! LOL

The main reason I asked, was because, I'm looking for more excuses to use my TS-820. Also, I need to try out my loopy dipole I just builtSo, here goes:

Is there anybody out there interested in skedding Kenwood hybrid to Kenwood hybrid (or a similar classic radio for that matter [you know what I mean Bob])? Please let me know. A roundtable (like I used to get involved in on 160m, in college, with W9YT's TS-830S) would also be cool. Please let me know either on, or offlist.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine" <dave.crooks@...> wrote:
>
> Hi Ellen,
> Looks like you got the job!
> Set-up a sked and lets see what happens.
> 73 Dave F4EYK
>

8434. Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 14:41:08 UTC
From: james27613
Topic: 8409 Message: 8434

hi,

since the radio has value to you, if it were my rig
I would just pay the guy so you can get it back,
otherwise he can play games with you and cause more problems
with your radio.

Hope you get the radio back so it can be repaired properly.

73 james

8435. Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 14:58:15 UTC
From: Ruben
Topic: 8409 Message: 8435

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi,
>
> since the radio has value to you, if it were my rig
> I would just pay the guy so you can get it back,
> otherwise he can play games with you and cause more problems
> with your radio.
>
> Hope you get the radio back so it can be repaired properly.
>
> 73 james
>

Hello James, as of last night it looks like this problem may be over.
The unmentioned person has agreed to return my radio and he will not
charge me for anything not even shipping. I wrote him a really nice
message stating clearly what I expected from since he didn't meet
his obligations and pointed out that he misrepresented.
I also said I wasn't looking for something for nothing, just wanted
the rig repaired. He did say that I didn't have to "threaten him".
The so called threat had to do with his states Attorney General and
e-Ham. Better for him to reurn the rig then to lose his reputation
and credibility in our community.
Gentlemen and Ladies as well don't be fooled by pretty web sites.
I want to thank everyone that offered their opinions and input, it's
because of your words that gave me the courage to put together a
really well thought out message to send to this guy. And it looks
like it worked.

Thanks es best 73 to all .. Ruben KA2HHB

8436. Re: [TS-520_820_530_830] Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 17:08:35 UTC
From: Peter A Markavage
Topic: 8428 Message: 8436

Maybe you should pick a day, time, and approx. frequency to meet. With
1029 members in this Group, you might be able to gather a crowd. 20
meters probably would give you the best "group coverage". Of course,
depending on the number of gatherers, you need to determine if it will be
a structured net or just one based on anarchy(i.e. break in). Sometimes
gathering a crowd is easy; managing them can be the difficult part.

Pete, wa2cwa

On Mon, 31 Jul 2006 13:00:37 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Ohhhhh, Okaayyyyy! LOL
>
> The main reason I asked, was because, I'm looking for more excuses
> to
> use my TS-820. Also, I need to try out my loopy dipole I just
> builtSo,
> here goes:
>
> Is there anybody out there interested in skedding Kenwood hybrid to
>
> Kenwood hybrid (or a similar classic radio for that matter [you know
>
> what I mean Bob])? Please let me know. A roundtable (like I used to
>
> get involved in on 160m, in college, with W9YT's TS-830S) would also
> be
> cool. Please let me know either on, or offlist.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine"
> <dave.crooks@...> wrote:
> >
> > Hi Ellen,
> > Looks like you got the job!
> > Set-up a sked and lets see what happens.
> > 73 Dave F4EYK

8437. Re: [TS-520_820_530_830] Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 17:19:02 UTC
From: Ruben Echevarria
Topic: 8428 Message: 8437

I'd be happy to check into a net on 20 meters although I'd be using my TS50S for the time being
until my TS830S is repaired. Let's pick a frequency. I'm also using a wire.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 31, 2006 1:08:35 PM
Subject: Re: [TS-520_820_530_830] Re: Are there any vintage Kenwood nets?

Maybe you should pick a day, time, and approx. frequency to meet. With
1029 members in this Group, you might be able to gather a crowd. 20
meters probably would give you the best "group coverage". Of course,
depending on the number of gatherers, you need to determine if it will be
a structured net or just one based on anarchy(i.e. break in). Sometimes
gathering a crowd is easy; managing them can be the difficult part.

Pete, wa2cwa

On Mon, 31 Jul 2006 13:00:37 -0000 "Ellen R"
<ellenjoanne2003@ sbcglobal. net> writes:
> Ohhhhh, Okaayyyyy! LOL
>
> The main reason I asked, was because, I'm looking for more excuses
> to
> use my TS-820. Also, I need to try out my loopy dipole I just
> builtSo,
> here goes:
>
> Is there anybody out there interested in skedding Kenwood hybrid to
>
> Kenwood hybrid (or a similar classic radio for that matter [you know
>
> what I mean Bob])? Please let me know. A roundtable (like I used to
>
> get involved in on 160m, in college, with W9YT's TS-830S) would also
> be
> cool. Please let me know either on, or offlist.
>
> 73,
> Ellen - AF9J
>

> --- In TS-520_820_530_ 830@yahoogroups. com, "Dave and Loraine"
> <dave.crooks@ ...> wrote:
> >
> > Hi Ellen,
> > Looks like you got the job!
> > Set-up a sked and lets see what happens.
> > 73 Dave F4EYK

[Non-text portions of this message have been removed]

8438. VFO 230 Frecuency display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 17:54:23 UTC
From: hc2sa
Topic: 8438 Message: 8438

73 for all the group. Last week I received a VFO 230 that I bougth on ebay, good cosmetic conditions but after 20 minutes of operation the display frecuency gone, the rest of the vfo, memory and main lights works ok; the fuse is ok. thanks in advance for any help or advice.

Rene
HC2SA

8439. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 18:25:00 UTC
From: Edwin
Topic: 8409 Message: 8439

I would find the person who is going to work on it and have the guy who's got it now drop ship to him to save the $30 in shipping to send it back out again.
Edwin
N1DFB
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 31, 2006 10:41 AM
Subject: [TS-520_820_530_830] Re: Help TS830S Repair

hi,

since the radio has value to you, if it were my rig
I would just pay the guy so you can get it back,
otherwise he can play games with you and cause more problems
with your radio.

Hope you get the radio back so it can be repaired properly.

73 james

[Non-text portions of this message have been removed]

8440. Re: [TS-520_820_530_830] Re: Help TS830S Repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 18:43:12 UTC
From: Ruben Echevarria
Topic: 8409 Message: 8440

Edwin you're right, but I want to inspect the radio myself first and compare to pics that I took prior
to sending it out. I don't want a brick arriving at someone elses door.....

Thanks 73

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Edwin <el-stewart-1@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 31, 2006 2:25:00 PM
Subject: Re: [TS-520_820_530_830] Re: Help TS830S Repair

I would find the person who is going to work on it and have the guy who's got it now drop ship to him to save the $30 in shipping to send it back out again.
Edwin
N1DFB
----- Original Message -----
From: james27613
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Monday, July 31, 2006 10:41 AM
Subject: [TS-520_820_ 530_830] Re: Help TS830S Repair

hi,

since the radio has value to you, if it were my rig
I would just pay the guy so you can get it back,
otherwise he can play games with you and cause more problems
with your radio.

Hope you get the radio back so it can be repaired properly.

73 james

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8441. Need Sugustion On Glue to Repair Plastic Gears in Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 17:59:16 UTC
From: N3DOK
Topic: 8441 Message: 8441

Hi,
I have a TS-830S. I noticed that the sprocket gears (1 large,3 Small) on the 3 variable capacitors (RF Unit), that are connected by chain link to the drive control, have some cracks in them. This plastic is the same type that the shaft couplers are made out of.

I have an old plastic shaft coupler that I cut up in to pieces. I would like to find a glue that will bond these pieces together. But has anyone found a glue that holds?

The sprocket gears on the Drive Control 3 variable capacitors RF Unit. Has anyone had the sprocket gear break lose?

Thank You,
Bob N3DOK

[Non-text portions of this message have been removed]

8442. Touchy ALC meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 19:30:37 UTC
From: Kevin
Topic: 8442 Message: 8442

Has anyone experienced intermittent or no ALC by band with output meter reads still OK on Kenwood TS-830S?

On 20 meters I don't get any ALC reading. But reading wattmeter I get 90-100 watts. I've notice other bands sometimes ALC seems sporadic "touchy" or "jumpy" when tuning.

I have replaced the final tubes and 12by7 twice. Except same manufacturer both times for 12by7.

Makes it trickier to tune. On 20 meters I must use wattmeter for max instead of ALC. Called KH8SI on 20CW for 3 hours last night and never seen the ALC meter bump once. The Kenwood tuner wattmeter showed 100+ watts all the time. Driving amp to near full output.

I'd figure contact dirty for ALC circuit except always no read on 20m for some reason. While others read. Why 20m?

Rig was purchased new by me 1980's-ish.

tnx es 73
Kevin

8443. Re: [TS-520_820_530_830] VFO 230 Frecuency display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 19:42:09 UTC
From: yash@aol.com
Topic: 8438 Message: 8443

Rene
try this. plug the 230 into the din plug in the back of the 830...wiggle it around and make sure it is seated all the way... same for the jack on the 230, it trips a small switch when inserted. turn the 830 on ,make sure the fix button is out, make sure your getting power to the 230 ...also plug in the 230's line cord. with every thing powered up pull the line cord for the 230 and let it sit for 1-2 minutes. then plug it back into the outlet.
My 230 does just what you said yours does and this cures mine all the time. good luck,hope it works.
if this fails check the service manual ...part of the 830 service manual and check out the small supplt in the base of the 230. also clean and check the bunch od cable connectors on the main board of the 230
good luck
dale wt4t

-----Original Message-----
From: hc2sa@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Mon, 31 Jul 2006 1:54 PM
Subject: [TS-520_820_530_830] VFO 230 Frecuency display problem

73 for all the group. Last week I received a VFO 230 that I bougth on
ebay, good cosmetic conditions but after 20 minutes of operation the
display frecuency gone, the rest of the vfo, memory and main lights
works ok; the fuse is ok. thanks in advance for any help or advice.

Rene
HC2SA

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

[Non-text portions of this message have been removed]

8444. Re: [TS-520_820_530_830] Touchy ALC meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 19:48:43 UTC
From: Ruben Echevarria
Topic: 8442 Message: 8444

That's how my TS830S started out, now I have no RX at all. Waiting on it's return from a gentlemen that couldn't
repair it, so I can send it out to someone that knows what they're doing.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Kevin <n0cwr@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 31, 2006 3:30:37 PM
Subject: [TS-520_820_530_830] Touchy ALC meter

Has anyone experienced intermittent or no ALC by band with output
meter reads still OK on Kenwood TS-830S?

On 20 meters I don't get any ALC reading. But reading wattmeter
I get 90-100 watts. I've notice other bands sometimes ALC
seems sporadic "touchy" or "jumpy" when tuning.

I have replaced the final tubes and 12by7 twice. Except same
manufacturer both times for 12by7.

Makes it trickier to tune. On 20 meters I must use wattmeter for max
instead of ALC. Called KH8SI on 20CW for 3 hours last night and never
seen the ALC meter bump once. The Kenwood tuner wattmeter showed
100+ watts all the time. Driving amp to near full output.

I'd figure contact dirty for ALC circuit except always no read on 20m
for some reason. While others read. Why 20m?

Rig was purchased new by me 1980's-ish.

tnx es 73
Kevin

[Non-text portions of this message have been removed]

8445. Re: [TS-520_820_530_830] Touchy ALC meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 20:07:09 UTC
From: Ruben Echevarria
Topic: 8442 Message: 8445

Sorry I meant no TX at all not RX ... RX is fine on all bands.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, July 31, 2006 3:48:43 PM
Subject: Re: [TS-520_820_530_830] Touchy ALC meter

That's how my TS830S started out, now I have no RX at all. Waiting on it's return from a gentlemen that couldn't
repair it, so I can send it out to someone that knows what they're doing.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Kevin <n0cwr@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Monday, July 31, 2006 3:30:37 PM
Subject: [TS-520_820_ 530_830] Touchy ALC meter

Has anyone experienced intermittent or no ALC by band with output
meter reads still OK on Kenwood TS-830S?

On 20 meters I don't get any ALC reading. But reading wattmeter
I get 90-100 watts. I've notice other bands sometimes ALC
seems sporadic "touchy" or "jumpy" when tuning.

I have replaced the final tubes and 12by7 twice. Except same
manufacturer both times for 12by7.

Makes it trickier to tune. On 20 meters I must use wattmeter for max
instead of ALC. Called KH8SI on 20CW for 3 hours last night and never
seen the ALC meter bump once. The Kenwood tuner wattmeter showed
100+ watts all the time. Driving amp to near full output.

I'd figure contact dirty for ALC circuit except always no read on 20m
for some reason. While others read. Why 20m?

Rig was purchased new by me 1980's-ish.

tnx es 73
Kevin

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8446. Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 20:48:10 UTC
From: Ellen R
Topic: 8428 Message: 8446

I'd be willing to try it as a roundtable first on 20m. Mainly due to the fact that I'm not running big power into a big antenna (I'm just running barefoot into a loopy dipole [a dipole with each leg in an endfed loop configuration]). Since we have a fair amount of Generals in the group, 14.225 and below can be ruled out. I'll have to do some listening to see what's open frequencywise (you know as well as I do, that some hams get pretty testy on 20m, if you operate on "their" frequency).

If I find an open freq., I'll announce the day I'm going to try a roundtable. I know that the weekends are best for it, but QRM (and weekend things I do), may rule out Saturday or Sunday. I'll let you all know.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Maybe you should pick a day, time, and approx. frequency to meet. With
> 1029 members in this Group, you might be able to gather a crowd. 20
> meters probably would give you the best "group coverage". Of course,
> depending on the number of gatherers, you need to determine if it will be
> a structured net or just one based on anarchy(i.e. break in). Sometimes
> gathering a crowd is easy; managing them can be the difficult part.
>
> Pete, wa2cwa
>
> On Mon, 31 Jul 2006 13:00:37 -0000 "Ellen R"
> <ellenjoanne2003@...> writes:
> > Ohhhhh, Okaayyyyy! LOL
> >
> > The main reason I asked, was because, I'm looking for more excuses
> > to
> > use my TS-820. Also, I need to try out my loopy dipole I just
> > builtSo,
> > here goes:
> >
> > Is there anybody out there interested in skedding Kenwood hybrid to
> >

> > Kenwood hybrid (or a similar classic radio for that matter [you
know
> >
> > what I mean Bob])? Please let me know. A roundtable (like I used
to
> >
> > get involved in on 160m, in college, with W9YT's TS-830S) would
also
> > be
> > cool. Please let me know either on, or offlist.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine"
> > <dave.crooks@> wrote:
> > >
> > > Hi Ellen,
> > > Looks like you got the job!
> > > Set-up a sked and lets see what happens.
> > > 73 Dave F4EYK
>

8447. Paddle switches for the TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-07-31 20:10:49 UTC
From: ya, as if
Topic: 8447 Message: 8447

Just want to start put by saying, I have been in the shadows reading since I joined this group and have enjoyed the advice being given, so with that being said...

I am getting ready to start a ground up restoration of my beloved TS-520S, and am in need of the Paddle switches, has anyone found a suitable source for these? Also are there any pointers that can be given for such an endeavor?

73 de Don KD1ZI

8448. Re: [TS-520_820_530_830] Need Sugustion On Glue to Repair Plastic Gears in Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 04:20:51 UTC
From: Charles Mortimer
Topic: 8441 Message: 8448

hallo bob
try an epoxy resin 2 tubes mix worth its weight in gold around a radio you will find at your local hardware shop has the gear separated from the brass bushing or is it just cracked I gather it cracked where the two locking screws fit if the gear teeth are ok the ideal thing to fix this problem would be a thin tube slipped over the end and re drilled to take the locking screws thin brass tube and the place to find that is in the model supplier shop they should have a hefty supply of this material the people who sell model aircraft use it
just looked at my spare shaft for an 820 I have 2 out of three that are cracked hope this helps bob
Charles&rusty vk6ycj

----- Original Message -----
From: "N3DOK" <n3dok@...>
To: "YAHOOGROUP TS-830S" <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, August 01, 2006 1:59 AM
Subject: [TS-520_820_530_830] Need Sugustion On Glue to Repair Plastic Gears in Kenwood

> Hi,
> I have a TS-830S. I noticed that the sprocket gears (1 large,3 Small) on
> the 3 variable capacitors (RF Unit), that are connected by chain link to
> the drive control, have some cracks in them. This plastic is the same type
> that the shaft couplers are made out of.
>
> I have an old plastic shaft coupler that I cut up in to pieces. I would
> like to find a glue that will bond these pieces together. But has anyone
> found a glue that holds?
>
> The sprocket gears on the Drive Control 3 variable capacitors RF Unit. Has
> anyone had the sprocket gear break lose?
>
>
> Thank You,
> Bob N3DOK
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>

8449. Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 04:54:01 UTC
From: John Holden
Topic: 8428 Message: 8449

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> One upon a time there was a very active Kenwood User's Net on 14.317
that
> met every Sunday. It was started by the previous owner of International
> Radio (Rod somebody). It started in the early 80's and ran till the mid
> to late 90's. When he moved on to other prospects, the net faded away. I
> know of no other active Kenwood net, much less a "vintage" Kenwood net.
>
> Of course, in today's times, one would have to define what "vintage"
> Kenwood rigs would fall under the name "Kenwood Vintage Net" if you had
> one. With e-mail reflectors, web sites, et al, one would wonder what
> advantages a "net" would have.
>
> Pete, wa2cwa

Pete:

This one is easy..with a Kenwood net, rather than blog, chatroom etc
etc.. you can HEAR the advantages to owning a Kenwood! I haven't
heard anything yet..but you can imagine the reactions when other make
rigs' owners happen to listen in. (Just before they toss their rig
out the window.) ;)

John/N7IQV

>
>
> On Sun, 30 Jul 2006 16:30:09 -0000 "Ellen R"
> <ellenjoanne2003@...> writes:
> > Hi Everybody,
> >
> > I have a question for the group. As you know, there are vintage
> > nets
> > for Collins, Swan, Heathkit, etc. Are there any vintage nets for
> > Kenwoods. If so, what are the nets' names, and what days, times,
> > and
> > freqs. do they meet on-the-air?
> >
> > Thanks,
> > Ellen - AF9J
>

8450. Re: [TS-520_820_530_830] Touchy ALC meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 12:08:34 UTC
From: Bill Leahy
Topic: 8442 Message: 8450

The 830 has a socket for the driver tube, mounted in the RF unit board. The socket probably has bad solder joints.

Removal of the AF unit underneath will reveal an access panel that can then be removed to expose the bottom side of the RF unit board. Resolder the tube socket (use plenty of solder to get a nice fillet around each pin) and check for solder bridges. This will help. It may not fix the problem but needs to be done anyway, on all 530s and 830s, about every ten years.

bill K0ZL

On 7/31/06, Kevin <n0cwr@...> wrote:
>
> Has anyone experienced intermittent or no ALC by band with output
> meter reads still OK on Kenwood TS-830S?
>
> On 20 meters I don't get any ALC reading. But reading wattmeter
> I get 90-100 watts. I've notice other bands sometimes ALC
> seems sporadic "touchy" or "jumpy" when tuning.
>
> I have replaced the final tubes and 12by7 twice. Except same
> manufacturer both times for 12by7.
>
> Makes it trickier to tune. On 20 meters I must use wattmeter for max
> instead of ALC. Called KH8SI on 20CW for 3 hours last night and never
> seen the ALC meter bump once. The Kenwood tuner wattmeter showed
> 100+ watts all the time. Driving amp to near full output.
>
> I'd figure contact dirty for ALC circuit except always no read on 20m
> for some reason. While others read. Why 20m?
>
> Rig was purchased new by me 1980's-ish.
>
> tnx es 73
> Kevin
>
>
>

[Non-text portions of this message have been removed]

8451. Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 12:03:37 UTC
From: scott
Topic: 8428 Message: 8451

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I'd be willing to try it as a roundtable first on 20m. Mainly due
to
> the fact that I'm not running big power into a big antenna (I'm
just
> running barefoot into a loopy dipole [a dipole with each leg in an
> endfed loop configuration]). Since we have a fair amount of
Generals
> in the group, 14.225 and below can be ruled out. I'll have to do
> some listening to see what's open frequencywise (you know as well
as
> I do, that some hams get pretty testy on 20m, if you operate
> on "their" frequency).
>
> If I find an open freq., I'll announce the day I'm going to try a
> roundtable. I know that the weekends are best for it, but QRM (and
> weekend things I do), may rule out Saturday or Sunday. I'll let
you
> all know.

Re: 20 meter hybrid net.
If time and schedule permit, count me in. scott kg6brg.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > Maybe you should pick a day, time, and approx. frequency to meet.
> With
> > 1029 members in this Group, you might be able to gather a crowd.
20
> > meters probably would give you the best "group coverage". Of
course,
> > depending on the number of gatherers, you need to determine if it
> will be
> > a structured net or just one based on anarchy(i.e. break in).
> Sometimes
> > gathering a crowd is easy; managing them can be the difficult
part.
> >
> > Pete, wa2cwa

> >
> > On Mon, 31 Jul 2006 13:00:37 -0000 "Ellen R"
> > <ellenjoanne2003@> writes:
> > > Ohhhhh, Okaayyyyy! LOL
> > >
> > > The main reason I asked, was because, I'm looking for more
> excuses
> > > to
> > > use my TS-820. Also, I need to try out my loopy dipole I just
> > > builtSo,
> > > here goes:
> > >
> > > Is there anybody out there interested in skedding Kenwood
hybrid
> to
> > >
> > > Kenwood hybrid (or a similar classic radio for that matter [you
> know
> > >
> > > what I mean Bob])? Please let me know. A roundtable (like I
used
> to
> > >
> > > get involved in on 160m, in college, with W9YT's TS-830S) would
> also
> > > be
> > > cool. Please let me know either on, or offlist.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine"
> > > <dave.crooks@> wrote:
> > > >
> > > > Hi Ellen,
> > > > Looks like you got the job!
> > > > Set-up a sked and lets see what happens.
> > > > 73 Dave F4EYK
> >
>

8452. Re: [TS-520_820_530_830] Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 12:57:48 UTC
From: Ruben Echevarria
Topic: 8428 Message: 8452

How about taking a poll up until Friday this week August 4, 2006 just to see how many participants or possible check ins
can be expected? This way we'll have a list that we can compile and have ready for the official start
Ruben KA2HHB (General) New Jersey

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: scott <swduncan57@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 1, 2006 8:03:37 AM
Subject: [TS-520_820_530_830] Re: Are there any vintage Kenwood nets?

--- In TS-520_820_530_ 830@yahoogroups. com, "Ellen R"
<ellenjoanne2003@ ...> wrote:
>
> I'd be willing to try it as a roundtable first on 20m. Mainly due
to
> the fact that I'm not running big power into a big antenna (I'm
just
> running barefoot into a loopy dipole [a dipole with each leg in an
> endfed loop configuration]). Since we have a fair amount of
Generals
> in the group, 14.225 and below can be ruled out. I'll have to do
> some listening to see what's open frequencywise (you know as well
as
> I do, that some hams get pretty testy on 20m, if you operate
> on "their" frequency).
>
> If I find an open freq., I'll announce the day I'm going to try a
> roundtable. I know that the weekends are best for it, but QRM (and
> weekend things I do), may rule out Saturday or Sunday. I'll let
you
> all know.

Re: 20 meter hybrid net.
If time and schedule permit, count me in. scott kg6brg.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Peter A Markavage
> <pmarkavage@ > wrote:

> >
> > Maybe you should pick a day, time, and approx. frequency to meet.
> With
> > 1029 members in this Group, you might be able to gather a crowd.
20
> > meters probably would give you the best "group coverage". Of
course,
> > depending on the number of gatherers, you need to determine if it
> will be
> > a structured net or just one based on anarchy(i.e. break in).
> Sometimes
> > gathering a crowd is easy; managing them can be the difficult
part.
> >
> > Pete, wa2cwa
> >
> > On Mon, 31 Jul 2006 13:00:37 -0000 "Ellen R"
> > <ellenjoanne2003@ > writes:
> > > Ohhhhh, Okaayyyyy! LOL
> > >
> > > The main reason I asked, was because, I'm looking for more
> excuses
> > > to
> > > use my TS-820. Also, I need to try out my loopy dipole I just
> > > builtSo,
> > > here goes:
> > >
> > > Is there anybody out there interested in skedding Kenwood
hybrid
> to
> > >
> > > Kenwood hybrid (or a similar classic radio for that matter [you
> know
> > >
> > > what I mean Bob])? Please let me know. A roundtable (like I
used
> to
> > >
> > > get involved in on 160m, in college, with W9YT's TS-830S) would
> also
> > > be
> > > cool. Please let me know either on, or offlist.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com, "Dave and Loraine"
> > > <dave.crooks@ > wrote:
> > > >
> > > Hi Ellen,

> > > > Looks like you got the job!
> > > > Set-up a sked and lets see what happens.
> > > > 73 Dave F4EYK
> >
>

[Non-text portions of this message have been removed]

8453. Re: Need Sugustion On Glue to Repair Plastic Gears in Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 14:27:19 UTC
From: w9dz
Topic: 8441 Message: 8453

I have not actually tried these on any Kenwood plastic parts but here are two that might work. I have used JB Weld, a two part epoxy for filling holes on panels and mending items around the house with good results. Another possibility is Gorilla glue. It is a single part product that is activated by moisture. I have used it on plastic that couldn't be joined with solvent based glues or epoxy.

Allen, W9DZ

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> I have an old plastic shaft coupler that I cut up in to pieces. I would like to find a glue that will bond these pieces together. But has anyone found a glue that holds?
>

8454. Re: Are there any vintage Kenwood nets?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 15:11:16 UTC
From: Ellen R
Topic: 8428 Message: 8454

That's a good idea, I'll set one up.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> How about taking a poll up until Friday this week August 4, 2006
just to see how many participants or possible check ins
> can be expected? This way we'll have a list that we can compile and
have ready for the official start
> Ruben KA2HHB
(General) New Jersey
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: scott <swduncan57@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, August 1, 2006 8:03:37 AM
> Subject: [TS-520_820_530_830] Re: Are there any vintage Kenwood
nets?
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Ellen R"
> <ellenjoanne2003@ ...> wrote:
> >
> > I'd be willing to try it as a roundtable first on 20m. Mainly due
> to
> > the fact that I'm not running big power into a big antenna (I'm
> just
> > running barefoot into a loopy dipole [a dipole with each leg in
an
> > endfed loop configuration]). Since we have a fair amount of
> Generals
> > in the group, 14.225 and below can be ruled out. I'll have to do
> > some listening to see what's open frequencywise (you know as well
> as
> > I do, that some hams get pretty testy on 20m, if you operate
> > on "their" frequency).
> >
> > If I find an open freq., I'll announce the day I'm going to try a

> > roundtable. I know that the weekends are best for it, but QRM
(and
> > weekend things I do), may rule out Saturday or Sunday. I'll let
> you
> > all know.
>
> Re: 20 meter hybrid net.
> If time and schedule permit, count me in. scott kg6brg.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, Peter A Markavage
> > <pmarkavage@ > wrote:
> > >
> > > Maybe you should pick a day, time, and approx. frequency to
meet.
> > With
> > > 1029 members in this Group, you might be able to gather a
crowd.
> 20
> > > meters probably would give you the best "group coverage". Of
> course,
> > > depending on the number of gatherers, you need to determine if
it
> > will be
> > > a structured net or just one based on anarchy(i.e. break in).
> > Sometimes
> > > gathering a crowd is easy; managing them can be the difficult
> part.
> > >
> > > Pete, wa2cwa
> > >
> > > On Mon, 31 Jul 2006 13:00:37 -0000 "Ellen R"
> > > <ellenjoanne2003@ > writes:
> > > > Ohhhhh, Okaayyyyy! LOL
> > > >
> > > > The main reason I asked, was because, I'm looking for more
> > excuses
> > > > to
> > > > use my TS-820. Also, I need to try out my loopy dipole I just
> > > > builtSo,
> > > > here goes:
> > > >
> > > > Is there anybody out there interested in skedding Kenwood
> hybrid
> > to
> > > >
> > > > Kenwood hybrid (or a similar classic radio for that matter
[you

> > know
> > > >
> > > > what I mean Bob])? Please let me know. A roundtable (like I
> used
> > to
> > > > >
> > > > > get involved in on 160m, in college, with W9YT's TS-830S)
would
> > also
> > > > > be
> > > > > cool. Please let me know either on, or offlist.
> > > > >
> > > > > 73,
> > > > > Ellen - AF9J
> > > > >
> > > > > --- In TS-520_820_530_ 830@yahoogroups. com, "Dave and
Loraine"
> > > > > <dave.crooks@ > wrote:
> > > > > >
> > > > > > Hi Ellen,
> > > > > > Looks like you got the job!
> > > > > > Set-up a sked and lets see what happens.
> > > > > > 73 Dave F4EYK
> > > >
> > >
>
>
>
>
> [Non-text portions of this message have been removed]
>

8455. Re: [TS-520_820_530_830] Re: Need Sugustion On Glue to Repair Plastic Gears in Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 15:16:51 UTC
From: Ruben Echevarria
Topic: 8441 Message: 8455

Good product JB Weld, I used to sell it. I also used it on aluminum intake manifolds when the carburetor
threads were stripped out. Dries like steel but can be sanded to shape. I couldn't keep enough of it in my
store.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: w9dz <w9dz@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 1, 2006 10:27:19 AM
Subject: [TS-520_820_530_830] Re: Need Sugustion On Glue to Repair Plastic Gears in Kenwood

I have not actually tried these on any Kenwood plastic parts but here
are two that might work. I have used JB Weld, a two part epoxy for
filling holes on panels and mending items around the house with good
results. Another possibility is Gorilla glue. It is a single part
product that is activated by moisture. I have used it on plastic that
couldn't be joined with solvent based glues or epoxy.

Allen, W9DZ

--- In TS-520_820_530_ 830@yahoogroups. com, "N3DOK" <n3dok@...> wrote:
>
> I have an old plastic shaft coupler that I cut up in to pieces. I
would like to find a glue that will bond these pieces together. But has
anyone found a glue that holds?
>

[Non-text portions of this message have been removed]

8456. Poll has been started for deciding if a net will be held.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 16:48:16 UTC
From: Ellen R
Topic: 8456 Message: 8456

Hi everybody,

I've created a poll for deciding whether or not a net for (ours and other) classic Kenwood radios will happen. Take a look at, and vote to let me know if you're interested in a net.

73,
Ellen - AF9J

8457. New poll for TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 16:43:40 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 8457 Message: 8457

Enter your vote today! A new poll has been created for the
TS-520_820_530_830 group:

Would you like to participate in a net for classic Kenwoods? If so, there would be 3 choices of bands: 40m; 20m; and 15m. Please use the responses below.

o No, I'm not interested in a classic Kenwood net.
o Yes, I'm interested. I'd prefer the net to be on 40m.
o Yes, I'm interested. I'd prefer the net to be on 20m.
o Yes I'm interested. I'd prefer the net to be on 15m.

To vote, please visit the following web page:
http://groups.yahoo.com/group/TS-520_820_530_830/surveys?id=1648893

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

8458. Re: [TS-520_820_530_830] New poll for TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-01 18:01:06 UTC
From: Ruben Echevarria
Topic: 8457 Message: 8458

o Yes, I'm interested. I'd prefer the net to be on 20m

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: TS-520_820_530_830@yahoogroups.com
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 1, 2006 12:43:40 PM
Subject: [TS-520_820_530_830] New poll for TS-520_820_530_830

Enter your vote today! A new poll has been created for the
TS-520_820_530_ 830 group:

Would you like to participate in a net for classic Kenwoods? If so, there would be 3
choices of bands: 40m; 20m; and 15m. Please use the responses below.

o No, I'm not interested in a classic Kenwood net.
o Yes, I'm interested. I'd prefer the net to be on 40m.
o Yes, I'm interested. I'd prefer the net to be on 20m.
o Yes I'm interested. I'd prefer the net to be on 15m.

To vote, please visit the following web page:
http://groups. yahoo.com/ group/TS- 520_820_530_ 830/surveys? id=1648893

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

[Non-text portions of this message have been removed]

8459. Re: Paddle switches for the TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 02:05:08 UTC
From: Sergio Potes
Topic: 8447 Message: 8459

Don: I asked the same question about the paddles and some one was kind to direct me to Kenwood Parts. They have the paddles and I just order some from them.
Best wishes. Sergio AE4TO

8460. FREE HF LP Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 02:12:46 UTC
From: joe sloss
Topic: 8460 Message: 8460

Free to a new ham just starting out. Please cover my postage.

Joe k7mks

[Non-text portions of this message have been removed]

8461. Re: Poll has been started for deciding if a net will be held.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 07:19:02 UTC
From: Jeroen
Topic: 8456 Message: 8461

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi everybody,
>
> I've created a poll for deciding whether or not a net for (ours and
> other) classic Kenwood radios will happen. Take a look at, and vote
to
> let me know if you're interested in a net.
>
> 73,
> Ellen - AF9J
>
Hi Ellen,

Looking forward to a net on 20. Hopefully I can join in from PA-land
(antenna situation needs some work....).

73, Jeroen PF1JM

8462. Re: Poll has been started for deciding if a net will be held.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 11:16:40 UTC
From: Ellen R
Topic: 8456 Message: 8462

Hi Jeroen,

So far results look encouraging for holding a net.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jeroen" <jeroen_aletta@...>
wrote:

> Hi Ellen,
>
> Looking forward to a net on 20. Hopefully I can join in from PA-land
> (antenna situation needs some work....).
>
> 73, Jeroen PF1JM
>

8463. If net occurs, what should be the cutoff for a classic Kenwood?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 11:25:33 UTC
From: Ellen R
Topic: 8463 Message: 8463

Hi again everybody,

As I mentioned in a previous post, the results look encouraging for holding a net (and possibly a roundtable on the runnerup band). I have another question for the group - what do we use as a criterion for a classic Kenwood rig?

1. Tube and hybrid Kenwoods only? - in other words the old Trios, Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S

2. All Kenwood rigs made up until the mid to late 80s? - which would also include such solid state rigs as the TS-120S, TS130S, TS-180S, TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also have that killer Kenwood transmit audio)

3. All Kenwood rigs made up until 1990? - sort of make it an age related thing.

Any input would be appreciated. Well, I'd better get going to work.

73,
Ellen - AF9J

8464. Re: [TS-520_820_530_830] If net occurs, what should be the cutoff for a classic Kenwood?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 12:00:45 UTC
From: Ruben Echevarria
Topic: 8463 Message: 8464

No.1 Tube and Hybrid Kenwoods only ....
You can always change it to No.2 depending on moans and groans and participants.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 2, 2006 7:25:33 AM
Subject: [TS-520_820_530_830] If net occurs, what should be the cutoff for a classic Kenwood?

Hi again everybody,

As I mentioned in a previous post, the results look encouraging for holding a net (and possibly a roundtable on the runnerup band). I have another question for the group - what do we use as a criterion for a classic Kenwood rig?

1. Tube and hybrid Kenwoods only? - in other words the old Trios, Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S

2. All Kenwood rigs made up until the mid to late 80s? - which would also include such solid state rigs as the TS-120S, TS130S, TS-180S, TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also have that killer Kenwood transmit audio)

3. All Kenwood rigs made up until 1990? - sort of make it an age related thing.

Any input would be appreciated. Well, I'd better get going to work.

73,
Ellen - AF9J

[Non-text portions of this message have been removed]

8465. Re: [TS-520_820_530_830] If net occurs, what should be the cutoff for a classic Kenwood?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 12:01:40 UTC
From: Charles Mortimer
Topic: 8463 Message: 8465

hallo Ellen
glad you put the 430s in I operated one in the mid 80 and kept the whole of America happy with it and the rest of Europe operated from Falklands VP8BGX never had a bad report maybe that I was in pile up country
Charles vk6ycj

----- Original Message -----
From: "Ellen R" <ellenjoanne2003@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, August 02, 2006 7:25 PM
Subject: [TS-520_820_530_830] If net occurs, what should be the cutoff for a classic Kenwood?

> Hi again everybody,
>
> As I mentioned in a previous post, the results look encouraging for
> holding a net (and possibly a roundtable on the runnerup band). I
> have another question for the group - what do we use as a criterion
> for a classic Kenwood rig?
>
> 1. Tube and hybrid Kenwoods only? - in other words the old Trios,
> Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S
>
> 2. All Kenwood rigs made up until the mid to late 80s? - which would
> also include such solid state rigs as the TS-120S, TS130S, TS-180S,
> TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also
> have that killer Kenwood transmit audio)
>
> 3. All Kenwood rigs made up until 1990? - sort of make it an age
> related thing.
>
> Any input would be appreciated. Well, I'd better get going to work.
>
> 73,
> Ellen - AF9J
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

>
>
>
>
>

8466. New poll for TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 13:31:34 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 8457 Message: 8466

Enter your vote today! A new poll has been created for the
TS-520_820_530_830 group:

Iv a net is held,what should be defined as a classic Kenwood, for net purposes?

o Tube and hybrid Kenwoods only? - in other words the old Trios,
o All Kenwood rigs made up until the mid to late 80s? - which would
o All Kenwood rigs made up until 1990? - sort of make it an age

To vote, please visit the following web page:
http://groups.yahoo.com/group/TS-520_820_530_830/surveys?id=1649677

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

8467. Re: cutoff for a classic Kenwood net? - I've started another poll

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 13:38:04 UTC
From: Ellen R
Topic: 8463 Message: 8467

Based on the questions below, I've created another poll to keep
responses on the message board from getting out of hand countwise.
Feel free to place your vote.

73,
ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi again everybody,
>
> As I mentioned in a previous post, the results look encouraging for
> holding a net (and possibly a roundtable on the runnerup band). I
> have another question for the group - what do we use as a
criterion
> for a classic Kenwood rig?
>
> 1. Tube and hybrid Kenwoods only? - in other words the old Trios,
> Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S
>
> 2. All Kenwood rigs made up until the mid to late 80s? - which
would
> also include such solid state rigs as the TS-120S, TS130S, TS-180S,
> TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also
> have that killer Kenwood transmit audio)
>
> 3. All Kenwood rigs made up until 1990? - sort of make it an age
> related thing.
>
> Any input would be appreciated. Well, I'd better get going to work.
>
> 73,
> Ellen - AF9J
>

8468. Re: cutoff for a classic Kenwood net? - I've started another poll oops!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 13:58:35 UTC
From: Ellen R
Topic: 8463 Message: 8468

I rephrased choice #2 in the latest poll, in the process, wiping out
the 2 votes that were in there. Sorry about that. The two of you
who voted - could you please revote? Thanks.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Based on the questions below, I've created another poll to keep
> responses on the message board from getting out of hand countwise.
> Feel free to place your vote.
>
> 73,
> ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi again everybody,
> >
> > As I mentioned in a previous post, the results look encouraging
for
> > holding a net (and possibly a roundtable on the runnerup band).
I
> > have another question for the group - what do we use as a
> criterion
> > for a classic Kenwood rig?
> >
> > 1. Tube and hybrid Kenwoods only? - in other words the old
Trios,
> > Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S
> >
> > 2. All Kenwood rigs made up until the mid to late 80s? - which
> would
> > also include such solid state rigs as the TS-120S, TS130S, TS-
180S,
> > TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs
also
> > have that killer Kenwood transmit audio)
> >
> > 3. All Kenwood rigs made up until 1990? - sort of make it an age
> > related thing.
> >
> > Any input would be appreciated. Well, I'd better get going to

work.
> >
> > 73,
> > Ellen - AF9J
> >
>

8469. Re: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net? - I've started another poll

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 14:05:23 UTC
From: Ruben Echevarria
Topic: 8463 Message: 8469

I was thinking that maybe we can hold a regular net (Kenwood Specific All Models) on a regular day say Mondays and maybe TS520 Thru TS830S on Wednesdays 1980's Models then on possibly Friday have a swap/4 sale net.
This should help in solidifying a regular frequency for us. Also post intentions on eHam. We'll have to first run some
tests on 20 to see how well the band is doing and at what time. Designate a Net Control and an alternate for each day. Alternates can be changed on the fly depending on band conditons if necessary for relay.

973-484-2706
Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 2, 2006 9:38:04 AM
Subject: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net? - I've started another poll

Based on the questions below, I've created another poll to keep
responses on the message board from getting out of hand countwise.
Feel free to place your vote.

73,
ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, "Ellen R"
<ellenjoanne2003@ ...> wrote:
>
> Hi again everybody,
>
> As I mentioned in a previous post, the results look encouraging for
> holding a net (and possibly a roundtable on the runnerup band). I
> have another question for the group - what do we use as a
criterion
> for a classic Kenwood rig?
>
> 1. Tube and hybrid Kenwoods only? - in other words the old Trios,
> Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S
>
> 2. All Kenwood rigs made up until the mid to late 80s? - which
would
> also include such solid state rigs as the TS-120S, TS130S, TS-180S,

> TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also
> have that killer Kenwood transmit audio)
>
> 3. All Kenwood rigs made up until 1990? - sort of make it an age
> related thing.
>
> Any input would be appreciated. Well, I'd better get going to work.
>
> 73,
> Ellen - AF9J
>

[Non-text portions of this message have been removed]

8470. Re: [TS-520_820_530_830] If net occurs, what should be the cutoff for a classic Kenwood?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 14:27:50 UTC
From: Dave and Loraine
Topic: 8463 Message: 8470

Hi Ellen and all,
Group radios are already defined.
Too much democracy!
Pick a frequency and time then go for it.
It's only a hobby...

73 Dave F4EYK

8471. Re: New poll for TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 14:28:42 UTC
From: wb7_ssn
Topic: 8457 Message: 8471

Hello,

Not trying to rickl the boat, just a thought. Why shut out anyone? If someone is thinking about getting a Hybrid Kenwood and wants to discuss it, or has had one in the past, he is not welcome? This is ham radio and everyone should be welcome. If the majority of the discussions is about Kenwood Hybrids, for the most part, only people interested in them will want to join in.

An example, the Collins CCA monthly AM night is tomight. They encourage all to participate, with AM rigs new or old.

IMHO

Best,
DW Holtman
WB7SSN

--- In TS-520_820_530_830@yahoogroups.com,
TS-520_820_530_830@yahoogroups.com wrote:
>
>
> Enter your vote today! A new poll has been created for the
> TS-520_820_530_830 group:
>
> Iv a net is held,what should be defined as a classic Kenwood, for
net purposes?
>
> o Tube and hybrid Kenwoods only? - in other words the old Trios,
> o All Kenwood rigs made up until the mid to late 80s? - which would
> o All Kenwood rigs made up until 1990? - sort of make it an age
>
>
> To vote, please visit the following web page:
> http://groups.yahoo.com/group/TS-520_820_530_830/surveys?id=1649677
>
> Note: Please do not reply to this message. Poll votes are
> not collected via email. To vote, you must go to the Yahoo! Groups
> web site listed above.
>
> Thanks!
>

8472. Re: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 15:36:36 UTC
From: Peter A Markavage
Topic: 8472 Message: 8472

Too many days. It will all wear thin quickly.

Pete, wa2cwa

On Wed, 2 Aug 2006 07:05:23 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@...> writes:
> I was thinking that maybe we can hold a regular net (Kenwood Specific
> All Models) on a regular day say Mondays and maybe TS520 Thru TS830S
> on Wednesdays 1980's Models then on possibly Friday have a swap/4
> sale net.
> This should help in solidifying a regular frequency for us. Also
> post intentions on eHam. We'll have to first run some
> tests on 20 to see how well the band is doing and at what time.
> Designate a Net Control and an alternate for each day. Alternates
> can be changed on the fly depending on band conditons if necessary
> for relay.
>
>
> 973-484-2706
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...

8473. Re: [TS-520_820_530_830] Re:TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 15:36:20 UTC
From: Peter A Markavage
Topic: 8473 Message: 8473

I agree. The notion of the net revolves around the Kenwood hybrids and their interest. What you check into the net with should be immaterial. There would be no way to verify it anyway so why even bother trying to stipulate specific equipment use required to enter the net.

Pete, wa2cwa

On Wed, 02 Aug 2006 14:28:42 -0000 "wb7_ssn" <future212@...> writes:
> Hello,
>
> Not trying to rickl the boat, just a thought. Why shut out anyone? If
> someone is thinking about getting a Hybrid Kenwood and wants to
> discuss it, or has had one in the past, he is not welcome? This is ham
> radio and everyone should be welcome. If the majority of the
> discussions is about Kenwood Hybrids, for the most part, only people
> interested in them will want to join in.
>
> An example, the Collins CCA monthly AM night is tomight. They
> encourage all to participate, with AM rigs new or old.
>
> IMHO
>
> Best,
> DW Holtman
> WB7SSN

8474. Re: [TS-520_820_530_830] Re:TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 15:58:48 UTC
From: KD5SFA
Topic: 8473 Message: 8474

I second the notion.
I've had a 520s...great radio...I have a 830s and a 850s/at.
Both are also great. Whether I check in with the 830 or the
850 should not matter.....heck I may even use my 706MKIIG.

73,
Jon
KD5SFA

-----Original Message-----
>From: Peter A Markavage <pmarkavage@...>
>Sent: Aug 2, 2006 10:36 AM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re:TS-520_820_530_830
>
>I agree. The notion of the net revolves around the Kenwood hybrids and
>their interest. What you check into the net with should be immaterial.
>There would be no way to verify it anyway so why even bother trying to
>stipulate specific equipment use required to enter the net.
>
>Pete, wa2cwa
>
>On Wed, 02 Aug 2006 14:28:42 -0000 "wb7_ssn" <future212@...>
>writes:
>> Hello,
>>
>> Not trying to rickl the boat, just a thought. Why shut out anyone?
>> If
>> someone is thinking about getting a Hybrid Kenwood and wants to
>> discuss it, or has had one in the past, he is not welcome? This is
>> ham
>> radio and everyone should be welcome. If the majority of the
>> discussions is about Kenwood Hybrids, for the most part, only
>> people
>> interested in them will want to join in.
>>
>> An example, the Collins CCA monthly AM night is tomight. They
>> encourage all to participate, with AM rigs new or old.
>>
>> IMHO
>>
>> Best,
>> DW Holtman
>> WB7SSN
>

>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>

8475. Re: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 16:09:23 UTC
From: Ruben Echevarria
Topic: 8472 Message: 8475

I'm sorry Pete, agreed it would be too much. I was thinking of myself, since I'm home for the most part with
lots of time available I didn't take into consideration all those that have jobs. I'm disabled with plenty of time on my hands. I'll be happy to help with whatever is decided upon. 73 for now Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 2, 2006 11:36:36 AM
Subject: Re: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net?

Too many days. It will all wear thin quickly.

Pete, wa2cwa

On Wed, 2 Aug 2006 07:05:23 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@ yahoo.com> writes:
> I was thinking that maybe we can hold a regular net (Kenwood Specific
> All Models) on a regular day say Mondays and maybe TS520 Thru TS830S
> on Wednesdays 1980's Models then on possibly Friday have a swap/4
> sale net.
> This should help in solidifying a regular frequency for us. Also
> post intentions on eHam. We'll have to first run some
> tests on 20 to see how well the band is doing and at what time.
> Designate a Net Control and an alternate for each day. Alternates
> can be changed on the fly depending on band conditons if necessary
> for relay.
>
>
> 973-484-2706
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net

[Non-text portions of this message have been removed]

8476. Re: [TS-520_820_530_830] Re:TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 16:52:37 UTC
From: Max Harelik
Topic: 8473 Message: 8476

"heck I may even use my 706MKIIG" <snip>

Everybody would know. (hee, hee!)

73,
Max, K5OVW

8477. Re: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net? - I've started another poll

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 19:25:26 UTC
From: Ed Berbari
Topic: 8463 Message: 8477

Ellen,

I agree wit Pete. The rig you check in with should not matter. Its the content of the discussion and the interest in the old rigs that matters.

No way to verify the rig anyway.

Ed, W9EJB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 02, 2006 9:38 AM
Subject: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net? - I've started another poll

Based on the questions below, I've created another poll to keep
responses on the message board from getting out of hand countwise.
Feel free to place your vote.

73,
ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi again everybody,
>
> As I mentioned in a previous post, the results look encouraging for
> holding a net (and possibly a roundtable on the runnerup band). I
> have another question for the group - what do we use as a
criterion
> for a classic Kenwood rig?
>
> 1. Tube and hybrid Kenwoods only? - in other words the old Trios,
> Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S
>
> 2. All Kenwood rigs made up until the mid to late 80s? - which
would
> also include such solid state rigs as the TS-120S, TS130S, TS-180S,
> TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also
> have that killer Kenwood transmit audio)
>
> 3. All Kenwood rigs made up until 1990? - sort of make it an age
> related thing.

>
> Any input would be appreciated. Well, I'd better get going to work.
>
> 73,
> Ellen - AF9J
>

[Non-text portions of this message have been removed]

8478. Re: cutoff for a classic Kenwood net? - I've started another poll

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 21:14:28 UTC
From: tad
Topic: 8463 Message: 8478

Hoz about give two extra s-units on signal report for those stating
they are on a old kenwood? Shud be fun.

-- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari"
<eberbari@...> wrote:
>
> Ellen,
>
> I agree wit Pete. The rig you check in with should not matter.
Its the content of the discussion and the interest in the old rigs
that matters.
>
> No way to verify the rig anyway.
>
> Ed, W9EJB
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, August 02, 2006 9:38 AM
> Subject: [TS-520_820_530_830] Re: cutoff for a classic Kenwood
net? - I've started another poll
>
>
> Based on the questions below, I've created another poll to keep
> responses on the message board from getting out of hand
countwise.
> Feel free to place your vote.
>
> 73,
> ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi again everybody,
> >
> > As I mentioned in a previous post, the results look
encouraging for
> > holding a net (and possibly a roundtable on the runnerup
band). I
> > have another question for the group - what do we use as a
> criterion
> > for a classic Kenwood rig?

> >
> > 1. Tube and hybrid Kenwoods only? - in other words the old
Trios,
> > Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE,
TS830S
> >
> > 2. All Kenwood rigs made up until the mid to late 80s? - which
> would
> > also include such solid state rigs as the TS-120S, TS130S, TS-
180S,
> > TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs
also
> > have that killer Kenwood transmit audio)
> >
> > 3. All Kenwood rigs made up until 1990? - sort of make it an
age
> > related thing.
> >
> > Any input would be appreciated. Well, I'd better get going to
work.
> >
> > 73,
> > Ellen - AF9J
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8479. Re: cutoff for a classic Kenwood net? - I've started another poll

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 22:39:39 UTC
From: Ellen R
Topic: 8463 Message: 8479

OK, I agree, the net will be about classic Kenwoods. It shouldn't be about whether or not you have one. That's kind of cliqueish. I should have realized that. Good point people. I'm going to close the new poll.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari" <eberbari@...> wrote:
>
> Ellen,
>
> I agree wit Pete. The rig you check in with should not matter. Its the content of the discussion and the interest in the old rigs that matters.
>
> No way to verify the rig anyway.
>
> Ed, W9EJB
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, August 02, 2006 9:38 AM
> Subject: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net? - I've started another poll
>
>
> Based on the questions below, I've created another poll to keep
> responses on the message board from getting out of hand countwise.
> Feel free to place your vote.
>
> 73,
> ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi again everybody,
> >
> > As I mentioned in a previous post, the results look encouraging for

> > holding a net (and possibly a roundtable on the runnerup band).
I
> > have another question for the group - what do we use as a
> criterion
> > for a classic Kenwood rig?
> >
> > 1. Tube and hybrid Kenwoods only? - in other words the old
Trios,
> > Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S
> >
> > 2. All Kenwood rigs made up until the mid to late 80s? - which
> would
> > also include such solid state rigs as the TS-120S, TS130S, TS-
180S,
> > TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs
also
> > have that killer Kenwood transmit audio)
> >
> > 3. All Kenwood rigs made up until 1990? - sort of make it an
age
> > related thing.
> >
> > Any input would be appreciated. Well, I'd better get going to
work.
> >
> > 73,
> > Ellen - AF9J
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

8480. Re: cutoff for a classic Kenwood net? - a correction

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 22:46:26 UTC
From: Ellen R
Topic: 8463 Message: 8480

OK,

I'll keep the poll going. But the net will be open to anybody. It will be for discussing Classic Kenwoods. Whether the discussion will be about tube & hybrid Kenwoods only, or also include some pf the older solid state Kenwoods like the TS-120S, TS-130S, TS-180S, TS430S, & TS440S, I leave up to you (via the poll), the group membership.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> OK, I agree, the net will be about classic Kenwoods. It shouldn't be
> about whether or not you have one. That's kind of cliqueish. I
> should have realized that. Good point people. I'm going to close the
> new poll.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari"
> <eberbari@> wrote:
> >
> > Ellen,
> >
> > I agree wit Pete. The rig you check in with should not matter.
> Its the content of the discussion and the interest in the old rigs
> that matters.
> >
> > No way to verify the rig anyway.
> >
> > Ed, W9EJB
> >
> >
> > ----- Original Message -----
> > From: Ellen R
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, August 02, 2006 9:38 AM
> > Subject: [TS-520_820_530_830] Re: cutoff for a classic Kenwood
> net? - I've started another poll
> >

> >
> > Based on the questions below, I've created another poll to keep
> > responses on the message board from getting out of hand
> countwise.
> > Feel free to place your vote.
> >
> > 73,
> > ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi again everybody,
> > >
> > > As I mentioned in a previous post, the results look
encouraging
> for
> > > holding a net (and possibly a roundtable on the runnerup
band).
> I
> > > have another question for the group - what do we use as a
> > criterion
> > > for a classic Kenwood rig?
> > >
> > > 1. Tube and hybrid Kenwoods only? - in other words the old
> Trios,
> > > Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE,
TS830S
> > >
> > > 2. All Kenwood rigs made up until the mid to late 80s? -
which
> > would
> > > also include such solid state rigs as the TS-120S, TS130S, TS-
> 180S,
> > > TS-930S, TS-430S, TS-440S (a lot of hams claim that these
rigs
> also
> > > have that killer Kenwood transmit audio)
> > >
> > > 3. All Kenwood rigs made up until 1990? - sort of make it an
> age
> > > related thing.
> > >
> > > Any input would be appreciated. Well, I'd better get going to
> work.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> >

> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

8481. Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 23:04:26 UTC
From: dums2
Topic: 8481 Message: 8481

Great Idea Ellen.
Thanks for bringing it to our group. When will the freq.
be selected? Am looking forward to every one hearing my TS-530S
audio on the air!
73s George K0GWD

8482. Re: [TS-520_820_530_830] Re: cutoff for a classic Kenwood net? - a correction

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-02 23:52:56 UTC
From: Peter A Markavage
Topic: 8463 Message: 8482

And even those older hybrids, like the TS-510, TS-511, and TS-900.

Pete, wa2cwa

On Wed, 02 Aug 2006 22:46:26 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> OK,
>
> I'll keep the poll going. But the net will be open to anybody. It
>
> will be for discussing Classic Kenwoods. Whether the discussion will
>
> be about tube & hybrid Kenwoods only, or also include some pf the
> older solid state Kenwoods like the TS-120S, TS-130S, TS-180S,
> TS430S, & TS440S, I leave up to you (via the poll), the group
> membership.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
> >
> > OK, I agree, the net will be about classic Kenwoods. It shouldn't
>
> be
> > about whether or not you have one. That's kind of cliqueish. I
> > should have realized that. Good point people. I'm going to close
>
> the
> > new poll.
> >
> > 73,
> > Ellen - AF9J

8483. Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 00:54:01 UTC
From: Ellen R
Topic: 8481 Message: 8483

I should know by Saturday.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "dums2" <dums2@...> wrote:
>
> Great Idea Ellen.
> Thanks for bringing it to our group. When will the freq.
> be selected? Am looking forward to every one hearing my TS-530S
> audio on the air!
> 73s George K0GWD
>

8484. Re: cutoff for a classic Kenwood net? - a correction

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 01:07:32 UTC
From: Ellen R
Topic: 8463 Message: 8484

Yup,

Definitely The TS-510, TS-511 and TS-900. Including the Kenwood Twins. We are a group who uses Kenwoods that have tubes/valves. Two of the poll questions deal with whether or not we as tube/valve rig users, should include older Kenwood solid state rigs (which some hams consider to be classics) in net discussion topics. That's the main reaon they were included.

73,
Ellen - AF9J

<SNIP!>
--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> And even those older hybrids, like the TS-510, TS-511, and TS-900.
>
> Pete, wa2cwa

8485. Re: [TS-520_820_530_830] Re: Poll has been started for deciding if a net will be held.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 13:09:03 UTC
From: Ruben Echevarria
Topic: 8456 Message: 8485

Any verdict yet on the proposed net?

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 2, 2006 7:16:40 AM
Subject: [TS-520_820_530_830] Re: Poll has been started for deciding if a net will be held.

Hi Jeroen,

So far results look encouraging for holding a net.

73,
Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, "Jeroen" <jeroen_aletta@ ...>
wrote:

> Hi Ellen,
>
> Looking forward to a net on 20. Hopefully I can join in from PA-land
> (antenna situation needs some work....).
>
> 73, Jeroen PF1JM
>

[Non-text portions of this message have been removed]

8486. Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 15:43:19 UTC
From: Bill Wilkinson
Topic: 8481 Message: 8486

Hi
I am in favor of a net.You all work out the details. I am setting and waiting on UPS to deliver my new (to me) TS 520. Due today. Just let everyone know the time ,day and freq.
Bill 73 KE4KRN

[Non-text portions of this message have been removed]

8487. Re: Need Sugustion On Glue to Repair Plastic Gears in Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 18:57:32 UTC
From: rdchason
Topic: 8441 Message: 8487

If you are very brave at heart, use your soldering pencil to meld some of the 'plastic' over the crack. This will prolong the gear from breaking. Another thing to do is there is a "hot" glue that can be added to this to fill the crack. If you want I can look in my rig (TS830) to determine the type and maybe send you a sample. I have played with this some and have had some success. To use this, you are suppose to use hot air, but I have have made it work with the soldering pencil.

Doug

>
> ----- Original Message -----
> From: "N3DOK" <n3dok@...>
> To: "YAHOOGROUP TS-830S" <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, August 01, 2006 1:59 AM
> Subject: [TS-520_820_530_830] Need Sugustion On Glue to Repair
Plastic Gears
> in Kenwood
>
>
> > Hi,
> > I have a TS-830S. I noticed that the sprocket gears (1 large,3
Small) on
> > the 3 variable capacitors (RF Unit), that are connected by chain
link to
> > the drive control, have some cracks in them. This plastic is the
same type
> > that the shaft couplers are made out of.
> >
> > I have an old plastic shaft coupler that I cut up in to pieces.
I would
> > like to find a glue that will bond these pieces together. But
has anyone
> > found a glue that holds?
> >
> > The sprocket gears on the Drive Control 3 variable capacitors RF
Unit. Has
> > anyone had the sprocket gear break lose?
> >
> >
> > Thank You,
> > Bob N3DOK
> >
> > [Non-text portions of this message have been removed]

> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
>

8488. Re: [TS-520_820_530_830] Re: Need Sugustion On Glue to Repair Plastic Gears in Kenwood

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 19:17:39 UTC
From: N3DOK
Topic: 8441 Message: 8488

Hi,
I'm testing to see if some Glues that I have will "Melt" the sample piece that I have from a broken coupler. If I find the right Glue, I will let the group know.

This is a great group of people who are keeping the Kenwood HF radios on the air!
May The RF Be With You!

Bob N3DOK

----- Original Message -----
From: rdchason
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 03, 2006 2:57 PM
Subject: [TS-520_820_530_830] Re: Need Sugustion On Glue to Repair Plastic Gears in Kenwood

If you are very brave at heart, use your soldering pencil to meld
some of the 'plastic' over the crack. This will prolong the gear
from breaking. Another thing to do is there is a "hot" glue that
can be added to this to fill the crack. If you want I can look in
my rig (TS830) to determine the type and maybe send you a sample. I
have played with this some and have had some success. To use this,
you are suppose to use hot air, but I have have made it work with
the soldering pencil.

Doug

>
> ----- Original Message -----
> From: "N3DOK" <n3dok@...>
> To: "YAHOOGROUP TS-830S" <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, August 01, 2006 1:59 AM
> Subject: [TS-520_820_530_830] Need Sugustion On Glue to Repair
Plastic Gears
> in Kenwood
>
>
> > Hi,
> > I have a TS-830S. I noticed that the sprocket gears (1 large,3
Small) on
> > the 3 variable capacitors (RF Unit), that are connected by chain
link to
> > the drive control, have some cracks in them. This plastic is the
same type
> > that the shaft couplers are made out of.
> >

> > I have an old plastic shaft coupler that I cut up in to pieces.
I would
> > like to find a glue that will bond these pieces together. But
has anyone
> > found a glue that holds?
> >
> > The sprocket gears on the Drive Control 3 variable capacitors RF
Unit. Has
> > anyone had the sprocket gear break lose?
> >
> >
> > Thank You,
> > Bob N3DOK
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
>

[Non-text portions of this message have been removed]

8489. UPDATE: My TS830S is back home !!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 20:59:01 UTC
From: Ruben
Topic: 8489 Message: 8489

Well after all of the drama, my TS830S is back home.
I'm going over it now just to make sure that nothing changed
internally. I plugged it in and everything lit up, but now I
have to hook it up to my antenna.
BTW....No charge

Thanks for the help Ruben..KA2HHB

8490. Re: UPDATE: My TS830S is back home !!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-03 23:01:38 UTC
From: Gordon
Topic: 8489 Message: 8490

Hi Ruben,
I'm sure happy that you received it back. I would like to think the whole ordeal was just a big misunderstanding.
I would like to congratulate you for showing restraint and NOT posting the guys Name or call. I hope the Rig works well and you are pleased.

You are a true Gentleman !
(Even if you are a Mopar fan) hi hi.....
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ruben" <ka2hhb_2000@...> wrote:
>
> Well after all of the drama, my TS830S is back home.
> I'm going over it now just to make sure that nothing changed
> internally. I plugged it in and everything lit up, but now I
> have to hook it up to my antenna.
> BTW....No charge
>
> Thanks for the help Ruben..KA2HHB
>

8491. Re: [TS-520_820_530_830] Re: UPDATE: My TS830S is back home !!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 01:16:01 UTC
From: Ruben Echevarria
Topic: 8489 Message: 8491

Thanks Gordon, I always try to get along with everyone and the last thing I wanted to do was cause someone else harm or hardship. I appreciate your comments.
(E-Bay has some diggers listed BTW) hi hi
Best 73 Ruben de KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 3, 2006 7:01:38 PM
Subject: [TS-520_820_530_830] Re: UPDATE: My TS830S is back home !!!

Hi Ruben,
I'm sure happy that you received it back. I would like to think the whole ordeal was just a big misunderstanding.
I would like to congratulate you for showing restraint and NOT posting the guys Name or call. I hope the Rig works well and you are pleased.

You are a true Gentleman !
(Even if you are a Mopar fan) hi hi.....
73,
Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, "Ruben" <ka2hhb_2000@ ...>
wrote:
>
> Well after all of the drama, my TS830S is back home.
> I'm going over it now just to make sure that nothing changed
> internally. I plugged it in and everything lit up, but now I
> have to hook it up to my antenna.
> BTW....No charge
>
> Thanks for the help Ruben..KA2HHB
>

[Non-text portions of this message have been removed]

8492. Re: [TS-520_820_530_830] Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 12:16:23 UTC
From: Walt Breining
Topic: 8481 Message: 8492

Ellen:

I want to thank you for taking the initiative to organize a Kenwood net. Vintage Kenwoods and Yaesus are reaching the status of collectibles that Collins and Drake have enjoyed for many years. While it is fun to care for and restore these olde rigs, it is also fun to use them and talk with others who have this interest. Unfortunately, I do not have a operational home station at this time, but hope to have one operational by this winter. I do have my TS-820 (s) set up at the local Emergency Management Agency and operate from there once or twice a week. So whatever is decided as to a frequency and time, I hope to join you once in a while.

After I get my home station set up, I am sure that I will be a regular pest hi.

Vy 73, Walt N9WB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 02, 2006 7:54 PM
Subject: [TS-520_820_530_830] Re: Kenwood net

I should know by Saturday.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "dums2" <dums2@...> wrote:
>
> Great Idea Ellen.
> Thanks for bringing it to our group. When will the freq.
> be selected? Am looking forward to every one hearing my TS-530S
> audio on the air!
> 73s George K0GWD
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.5/405 - Release Date: 8/1/06

[Non-text portions of this message have been removed]

8493. Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 14:26:54 UTC
From: Ellen R
Topic: 8481 Message: 8493

You're welcome Walt, :)

Just like a vintage guitar, car, motorcycle, or airplane, these rigs were made to be used, not just looked at. And, they sure do sound good in both receive and transmit audio!

Looking at the poll results, it looks like 20m is the band of choice, and by a small margin, the group wants it to stick to the topic of tube & hybrid Kenwoods (and Trios for that matter). I will leave the polls open through the weekend to finalize results (a lot of people don't check the group's hapeenings until the weekend).

With that in mind, I would like to try a pilot net on 14.288 MHz either tonight (around 2300 to 0100z timeframe for a start time) or tomorrow morning (1100 to 1400z timframe for start time), to see how things go. Everybody let me know what will work out the best for you. I'm at work, but I will check the results throughout the day. If any of you have better ideas for a start time or freq., please chime in.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Ellen:
>
> I want to thank you for taking the initiative to organize a Kenwood net. Vintage Kenwoods and Yaesus are reaching the status of collectibles that Collins and Drake have enjoyed for many years. While it is fun to care for and restore these olde rigs, it is also fun to use them and talk with others who have this interest. Unfortunately, I do not have a operational home station at this time, but hope to have one operational by this winter. I do have my TS-820 (s) set up at the local Emergency Management Agency and operate from there once or twice a week. So whatever is decided as to a frequency and time, I hope to join you once in a while.
>
> After I get my home station set up, I am sure that I will be a regular pest hi.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Ellen R

> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, August 02, 2006 7:54 PM
> Subject: [TS-520_820_530_830] Re: Kenwood net
>
>
> I should know by Saturday.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "dums2" <dums2@> wrote:
> >
> > Great Idea Ellen.
> > Thanks for bringing it to our group. When will the freq.
> > be selected? Am looking forward to every one hearing my TS-530S
> > audio on the air!
> > 73s George K0GWD
> >
>
>
>
>
>
>
> ----------
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.5/405 - Release Date:
8/1/06
>
>
> [Non-text portions of this message have been removed]
>

8494. TS520 ALC, Drive probs...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 14:33:38 UTC
From: vk3bfa
Topic: 8494 Message: 8494

Hi good people,
this one is driving me absolutely NUTS - a TS520 that ahs been a real mongrel - took ages to get the rx working, now.... the saga so far....

Went to peak the driver cols, ie max ALC level on Tune position. Most abnds peaked, except for 21mhz. Fine, satrted looking for dry joints, loose switch conatcts - this radio ahd been got at by a succession of previous owners, so was pretty woeful. Resoldered all the coils on the formers, and on the PCB board.

Now, no ALC indication. Using the CRO on the grids of the PA tubes, lots of RF, but cant peak it on any band. More investigation, including (in desperation) pulling out all the coils to check them, and then hard wiring the coils to the switches via jumpers in case of broken tracks (impossible to do continuity checks as it was reading throught the coils.

Back together - now, still no ALC reading at all. Cant figure out how the ALC circuit works - where does it derive the sensing voltage from? - the alc line goes into q10 and so is supposed to vary the power - its stuck on a constant 2.6volts. As well, meter needle "whacks" on going from TX to RX. Bias conrol varies bias from -114 to (cant remember, its outside in the shack) but a reasonable swing. No PA current at all, irrespective of setting of SG switch.

Its now 12.30 in the morning, and I gave up in disgust - cant get my head round this one.....any suggestions (beyond a good nights sleep)

Somethings gone wrong, as well as the original cant peak drive problems.....

Andrew VK3BFA.

8495. Re: [TS-520_820_530_830] Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 14:41:36 UTC
From: Dave and Loraine
Topic: 8481 Message: 8495

Sounds good.
I'll be there.
73 Dave F4EYK

8496. RE: [TS-520_820_530_830] TS520 ALC, Drive probs...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 16:26:00 UTC
From: Richard Harris
Topic: 8494 Message: 8496

Andrew,

My scanned copy of the TS520 Service Manual isn't very clear, but I believe that the ALC is derived by detecting grid current from the PAs. To get grid current the drive has to be sufficient to take the grids positive. You may have plenty of drive, as seen on a 'scope but it may not be enough to drive the grids positive. Of course, as soon as you start to drive the grids positive the input impedance falls and starts to load the drive, resulting in flat topping, non-linearity, inter-mod etc. So detecting grid current is a very good way of controlling the ALC.

The grid current is detected by Q10 in the RF Unit and the output of Q10 ultimately controls gate 2 on Q1 on the generator board and possibly one of the dual-gate MOSFETs on the IF board.

The scanned schematic is in three sheets and difficult to follow on a PC monitor!

Good luck and 73s,

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of vk3bfa
Sent: 04 August 2006 15:34
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS520 ALC, Drive probs...

Hi good people,
this one is driving me absolutely NUTS - a TS520 that ahs been a real mongrel - took ages to get the rx working, now.... the saga so far....

Went to peak the driver cols, ie max ALC level on Tune position. Most abnds peaked, except for 21mhz. Fine, satrted looking for dry joints, loose switch conatcts - this radio ahd been got at by a succession of previous owners, so was pretty woeful. Resoldered all the coils on the formers, and on the PCB board.

Now, no ALC indication. Using the CRO on the grids of the PA tubes, lots of RF, but cant peak it on any band. More investigation, including (in desperation) pulling out all the coils to check them, and then hard wiring the coils to the switches via jumpers in case of broken tracks (impossible to do continuity checks as it was reading throught the coils.

Back together - now, still no ALC reading at all. Cant figure out how the ALC circuit works - where does it derive the sensing voltage from? - the alc line goes into q10 and so is supposed to vary the power -

its stuck on a constant 2.6volts. As well, meter needle "whacks" on going from TX to RX. Bias conrol varies bias from -114 to (cant remember, its outside in the shack) but a reasonable swing. No PA current at all, irrespective of setting of SG switch.

Its now 12.30 in the morning, and I gave up in disgust - cant get my head round this one.....any suggestions (beyond a good nights sleep)

Somethings gone wrong, as well as the original cant peak drive problems.....

Andrew VK3BFA.

[Non-text portions of this message have been removed]

8497. Re: [TS-520_820_530_830] Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 16:29:14 UTC
From: Peter A Markavage
Topic: 8481 Message: 8497

Be aware that the 20 Meter AM calling frequency and gathering spot is at
14.286. You can generally find AM'ers there most evenings. There's also a
West Coast AM group that generally meets there each evening. With typical
6 KHz typical AM bandwidth, they will be in your passband.

Pete, wa2cwa

On Fri, 04 Aug 2006 14:26:54 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> You're welcome Walt, :)
>
> With that in mind, I would like to try a pilot net on 14.288 MHz
> either tonight (around 2300 to 0100z timeframe for a start time) or
>
> tomorrow morning (1100 to 1400z timframe for start time), to see how
>
> things go. Everybody let me know what will work out the best for
> you. I'm at work, but I will check the results throughout the day.
>
> If any of you have better ideas for a start time or freq., please
> chime in.
>
> 73,
> Ellen - AF9J

8498. Mode switch TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 18:42:04 UTC
From: steveb84us
Topic: 8498 Message: 8498

My mode switch is a bit loose on my TS-830S. Do I have to remove the front panel to get to the nut that tightens it down? If so, is there a trick to removing the knobs? Thanks in advance.

Steve - N9SB

8499. Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-04 23:29:27 UTC
From: Ellen R
Topic: 8481 Message: 8499

Good point, I'd forgotten about them. OK, how about 14.310 MHz?

Ellen - AF9J

How does 14.292 MHz sound?
--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Be aware that the 20 Meter AM calling frequency and gathering spot
is at
> 14.286. You can generally find AM'ers there most evenings. There's
also a
> West Coast AM group that generally meets there each evening. With
typical
> 6 KHz typical AM bandwidth, they will be in your passband.
>
> Pete, wa2cwa
>
>
> On Fri, 04 Aug 2006 14:26:54 -0000 "Ellen R"
> <ellenjoanne2003@...> writes:
> > You're welcome Walt, :)
> >
> > With that in mind, I would like to try a pilot net on 14.288 MHz
> > either tonight (around 2300 to 0100z timeframe for a start time)
or
> >
> > tomorrow morning (1100 to 1400z timframe for start time), to see
how
> >
> > things go. Everybody let me know what will work out the best for
> > you. I'm at work, but I will check the results throughout the
day.
> >
> > If any of you have better ideas for a start time or freq., please
> > chime in.
> >
> > 73,
> > Ellen - AF9J
>

8500. Update on the TS820s mode problem.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 00:31:50 UTC
From: m_m_maxau
Topic: 8500 Message: 8500

Hey Guys.

Thanks for the input with my old radio.

I have determined that the switch is the problem, the next question is, where can I get another mode switch from and other bits?

I have had a real good look at this old girl and she needs some help!

The radio is missing some ferrite tuning cores from the RF board (ouch) and needs some other bits as well.

I had to repair (by replacing) the large 450Volt caps on the Power supply as the radio had a voltage problem on TX.

I have now fixed that but cannot get the radio to tune over 4 watts on ssb.

I am guessing that the driver is working but the finals are crook.

I have a new pair of 6146W's to put in, so that should power the old girl up.

Just have to workout why the RX level drops as soon as you key up, to my mind (which has limited electrical knowledge), it sounds like a leaky capacitor or a dodgy solder joint.

Any feedback would be most welcome.

The best thing about this radio is that the digital readout works perfectly !!!

73's
Anthony
VK2

8501. Re: [TS-520_820_530_830] Update on the TS820s mode problem.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 01:06:17 UTC
From: Dennis Windle
Topic: 8500 Message: 8501

Anthony:
The original large power supply Caps in the TS820 were 100uf @ 500V, did yours have 450V Caps ?

D.Windle
----- Original Message -----
From: m_m_maxau
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 04, 2006 8:31 PM
Subject: [TS-520_820_530_830] Update on the TS820s mode problem.

Hey Guys.

Thanks for the input with my old radio.

I have determined that the switch is the problem, the next question is, where can I get another mode switch from and other bits?

I have had a real good look at this old girl and she needs some help!

The radio is missing some ferrite tuning cores from the RF board (ouch) and needs some other bits as well.

I had to repair (by replacing) the large 450Volt caps on the Power supply as the radio had a voltage problem on TX.

I have now fixed that but cannot get the radio to tune over 4 watts on ssb.

I am guessing that the driver is working but the finals are crook.

I have a new pair of 6146W's to put in, so that should power the old girl up.

Just have to workout why the RX level drops as soon as you key up, to my mind (which has limited electrical knowledge), it sounds like a leaky capacitor or a dodgy solder joint.

Any feedback would be most welcome.

The best thing about this radio is that the digital readout works perfectly !!!

73's
Anthony
VK2

[Non-text portions of this message have been removed]

8502. Re: [TS-520_820_530_830] Update on the TS820s mode problem.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 01:41:05 UTC
From: agoodridge
Topic: 8500 Message: 8502

G'day Dennis

Yes mate,

Someone has made up a complete new board with the large caps as associated wiring from the transformer running into it.

The caps are 100uf @ 450volts.

Anyway, seems to work ok other than the other (multiple) issues it has!

Regards
Anthony
----- Original Message -----
From: Dennis Windle
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 05, 2006 11:06 AM
Subject: Re: [TS-520_820_530_830] Update on the TS820s mode problem.

Anthony:
The original large power supply Caps in the TS820 were 100uf @ 500V, did yours have 450V Caps ?

D.Windle
----- Original Message -----
From: m_m_maxau
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 04, 2006 8:31 PM
Subject: [TS-520_820_530_830] Update on the TS820s mode problem.

Hey Guys.

Thanks for the input with my old radio.

I have determined that the switch is the problem, the next question
is, where can I get another mode switch from and other bits?

I have had a real good look at this old girl and she needs some help!

The radio is missing some ferrite tuning cores from the RF board
(ouch) and needs some other bits as well.

I had to repair (by replacing) the large 450Volt caps on the Power
supply as the radio had a voltage problem on TX.

I have now fixed that but cannot get the radio to tune over 4 watts
on ssb.

I am guessing that the driver is working but the finals are crook.

I have a new pair of 6146W's to put in, so that should power the old girl up.

Just have to workout why the RX level drops as soon as you key up, to my mind (which has limited electrical knowledge), it sounds like a leaky capacitor or a dodgy solder joint.

Any feedback would be most welcome.

The best thing about this radio is that the digital readout works perfectly !!!

73's
Anthony
VK2

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.7/409 - Release Date: 4/08/2006

[Non-text portions of this message have been removed]

8503. Re: [TS-520_820_530_830] Update on the TS820s mode problem.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 09:24:31 UTC
From: Walt Breining
Topic: 8500 Message: 8503

Have you checked the ten ohm 1 watt cathode resistors?
N9WB
----- Original Message -----
From: m_m_maxau
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 04, 2006 7:31 PM
Subject: [TS-520_820_530_830] Update on the TS820s mode problem.

Hey Guys.

Thanks for the input with my old radio.

I have determined that the switch is the problem, the next question
is, where can I get another mode switch from and other bits?

I have had a real good look at this old girl and she needs some help!

The radio is missing some ferrite tuning cores from the RF board
(ouch) and needs some other bits as well.

I had to repair (by replacing) the large 450Volt caps on the Power
supply as the radio had a voltage problem on TX.

I have now fixed that but cannot get the radio to tune over 4 watts
on ssb.

I am guessing that the driver is working but the finals are crook.

I have a new pair of 6146W's to put in, so that should power the old
girl up.

Just have to workout why the RX level drops as soon as you key up,
to my mind (which has limited electrical knowledge), it sounds like
a leaky capacitor or a dodgy solder joint.

Any feedback would be most welcome.

The best thing about this radio is that the digital readout works
perfectly !!!

73's
Anthony
VK2

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.5/407 - Release Date: 8/3/06

[Non-text portions of this message have been removed]

8504. Re: [TS-520_820_530_830] Update on the TS820s mode problem.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 13:48:16 UTC
From: agoodridge
Topic: 8500 Message: 8504

G'day Walt

No mate, I have not checked.

I will have a look, thanks

73

Anthony
----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 05, 2006 7:24 PM
Subject: Re: [TS-520_820_530_830] Update on the TS820s mode problem.

Have you checked the ten ohm 1 watt cathode resistors?
N9WB
----- Original Message -----
From: m_m_maxau
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 04, 2006 7:31 PM
Subject: [TS-520_820_530_830] Update on the TS820s mode problem.

Hey Guys.

Thanks for the input with my old radio.

I have determined that the switch is the problem, the next question
is, where can I get another mode switch from and other bits?

I have had a real good look at this old girl and she needs some help!

The radio is missing some ferrite tuning cores from the RF board
(ouch) and needs some other bits as well.

I had to repair (by replacing) the large 450Volt caps on the Power
supply as the radio had a voltage problem on TX.

I have now fixed that but cannot get the radio to tune over 4 watts
on ssb.

I am guessing that the driver is working but the finals are crook.

I have a new pair of 6146W's to put in, so that should power the old
girl up.

Just have to workout why the RX level drops as soon as you key up,
to my mind (which has limited electrical knowledge), it sounds like
a leaky capacitor or a dodgy solder joint.

Any feedback would be most welcome.

The best thing about this radio is that the digital readout works
perfectly !!!

73's
Anthony
VK2

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.5/407 - Release Date: 8/3/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.7/409 - Release Date: 4/08/2006

[Non-text portions of this message have been removed]

8505. Late comer here

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 15:59:23 UTC
From: freebird2136117
Topic: 8505 Message: 8505

Though I can't operate my rig yet I will be there in spirit ... Anyone decide when and where.... CAn we do a checkin thru the net for those of us who haven't upgraded yet.... Thanks

8506. RE: [TS-520_820_530_830] If net occurs, what should be the cutoff for a classic Kenwood?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 19:15:29 UTC
From: Walter Milton
Topic: 8463 Message: 8506

Ellen,

HYBRID to me means that it has a tube in it some ware. So I vote for
Number 1.

Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Wednesday, August 02, 2006 7:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] If net occurs, what should be the cutoff for
a classic Kenwood?

Hi again everybody,

As I mentioned in a previous post, the results look encouraging for
holding a net (and possibly a roundtable on the runnerup band). I
have another question for the group - what do we use as a criterion
for a classic Kenwood rig?

1. Tube and hybrid Kenwoods only? - in other words the old Trios,
Kenwood Twins, TS520, TS520S, TS820, TS820S, TS530S & SE, TS830S

2. All Kenwood rigs made up until the mid to late 80s? - which would
also include such solid state rigs as the TS-120S, TS130S, TS-180S,
TS-930S, TS-430S, TS-440S (a lot of hams claim that these rigs also
have that killer Kenwood transmit audio)

3. All Kenwood rigs made up until 1990? - sort of make it an age
related thing.

Any input would be appreciated. Well, I'd better get going to work.

73,
Ellen - AF9J

[Non-text portions of this message have been removed]

8507. Re: [TS-520_820_530_830] New ham / Looking for info on TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 16:17:51 UTC
From: John Harp
Topic: 8370 Message: 8507

Greetings Joe.
I have had my first TS-830S for 25 years. It broke down on me. I kept it and bought a second one for $325. It's worth that much to me.

I always have a spare parts rig if nothing else, but someday I'd like to bring my first one back to life and use it either as a second reciever or else let my student I elmer use it. For now my Elmer wants to see it and use it. I have the matching speaker and the Digital VFO for split transcieve. I still use my MC-60 mic too.Some day I'll be a complete station.

Ask anybody whose on the bands these days, how good a TS-830 is for quality. As for me. I wouldn't trade it for an Ft100 MP. I think the reciever is probably just about comparable to it, especially for my hearing and what I use it for.

Just yesterday with 65 watts I turned on my speech compressor and pushed over the S7static crashes to get one more S9 report stateside.

Me I'd say, it's a good starter rig and I've heard others that kept thiers and won't let go either. Others that let them go and wished they'd kept it.Yes you can put a crystal in the bottom of the machine.You just hit the fix button and your'e there.

$400 is good price for you. I could get one a little cheaper just by sitting, but I say get it and get your General, and come join is and see for yourself why I say I'll take a tube hybrid. digital display and tube finals and all you need without bells or whistles.

Others may play with touch screens to make thiers do what it's supposed to do. I prefer buttons and knobs. It's right there in front of me.

SWR of 1.8:1 can shut a solid state rig down. I can push 3:1 on tubes and still be ok;5:1 can make grids get a little soft. I keep extra tubes around. They are 7 or 8 bucks for a driver and 6146's are still easy enough to find for around 40 bucks maybe a little more. Keep your drive cut back a little and your tubes will last. They won't even hear the difference on the other end.

If it were me, I'd say get one. I'd be suprised you'd give it up for something else or without some regret in the end. Come join us when you get your HF plus privileges and don't be afraid to learn to tune up right. Once you learn it, you'll get good fast.
73's for now. KA3DPW.

Joseph Hayes <von_landstuhl@...> wrote:

Hi all,

I just got my Technician license a few months ago and since then, I've
picked up a few military radios to play with on 6M and 29.6 Mhz FM.

Here's a picture of the "shack":
http://i4.photobucket.com/albums/y126/von_landstuhl/shack.jpg

I'm looking to get an HF rig and a co-worker has suggested the TS-830S. I already know not to pay more for the Gold Edition, so we don't have to go there. I want to work with Army MARS someday and would like to confirm something I read. Is it true the TS-830S can work outside the ham bands by installing a crystal in the bottom and pushing in the FIX button? If so, does this allow a range of frequencies or just the one freq?

It seems prices run around $400 on eBay, but I'm reluctant to spend that much money there because I don't want to get burned. Are there any reputable shops that tend to have them in stock?

Is there anything I should know before buying?

Thanks,
Joe
KD8DBJ

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

8508. Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 19:58:43 UTC
From: Gordon
Topic: 8508 Message: 8508

Ellen,
Have you decided on a Time and Frequency?
I have a great little TS-820 that I'd like to check in with.
I just finished installing New Finals and aligning it. Now I need to
sell it so I can buy another radio or two to repair. hi hi...
I'm working on a great little TS-520S at the moment.

73,
Gordon

8509. RE: [TS-520_820_530_830] Re: Kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 20:04:54 UTC
From: Walter Milton
Topic: 8481 Message: 8509

Ellen,

2300 Z would be good for me since 1100 Z is Sunday morning. the family and I are preparing for church.

Thanks,
Walt KA2NJF

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Friday, August 04, 2006 10:27 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Kenwood net

You're welcome Walt, :)

Just like a vintage guitar, car, motorcycle, or airplane, these rigs were made to be used, not just looked at. And, they sure do sound good in both receive and transmit audio!

Looking at the poll results, it looks like 20m is the band of choice, and by a small margin, the group wants it to stick to the topic of tube & hybrid Kenwoods (and Trios for that matter). I will leave the polls open through the weekend to finalize results (a lot of people don't check the group's hapeenings until the weekend).

With that in mind, I would like to try a pilot net on 14.288 MHz either tonight (around 2300 to 0100z timeframe for a start time) or tomorrow morning (1100 to 1400z timframe for start time), to see how things go. Everybody let me know what will work out the best for you. I'm at work, but I will check the results throughout the day. If any of you have better ideas for a start time or freq., please chime in.

73,
Ellen - AF9J

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> Ellen:
>
> I want to thank you for taking the initiative to organize a Kenwood net. Vintage Kenwoods and Yaesus are reaching the status of

collectibles that Collins and Drake have enjoyed for many years.
While it is fun to care for and restore these olde rigs, it is also
fun to use them and talk with others who have this interest.
Unfortunately, I do not have a operational home station at this time,
but hope to have one operational by this winter. I do have my TS-820
(s) set up at the local Emergency Management Agency and operate from
there once or twice a week. So whatever is decided as to a frequency
and time, I hope to join you once in a while.
>
> After I get my home station set up, I am sure that I will be a
regular pest hi.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> Sent: Wednesday, August 02, 2006 7:54 PM
> Subject: [TS-520_820_530_830] Re: Kenwood net
>
>
> I should know by Saturday.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "dums2" <dums2@> wrote:
> >
> > Great Idea Ellen.
> > Thanks for bringing it to our group. When will the freq.
> > be selected? Am looking forward to every one hearing my TS-530S
> > audio on the air!
> > 73s George K0GWD
> >
>
>
>
>
>
>
> ----------
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.394 / Virus Database: 268.10.5/405 - Release Date:
8/1/06

>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8511. My Latest project TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 20:26:57 UTC
From: Gordon
Topic: 8511 Message: 8511

Hi Gang,
My latest project is a very nice TS-520S. I received it in on a trade. I removed the Covers and inspected it. It looks Very clean inside. First thing I noticed is that it has a 400HZ CW filter installed. I removed the HV cage and found that it has the Original S2001 tubes. So, I cleaned all the controls and the band switches. Flipped her right side up and appied power with the Heater switch Off (through the Transformer Saver) . Everything lite up. So I connected a Ground and then hook up the Antenna. Instantly I started hearing signals. Ok, So far so good.
I then checked the VFO and found that the small ring was a bit loose and the Main dial was off about 10KC. Removed the front knob, Removed the ring and got in there and adjust the main dial to be right on frequency.
I then removed the snap ring from the small wheel and adjust the tension spring. Reassembled it, and the VFO now works Perfect. I disconnected the transformer saver and plugged the power back in and turned the power on.
Then turned the heater switch on and waited for the girl to warm up a bit. Checked bias current. Readjusted to 60 ma.
Decided to tune into my dummy load for 20 meters and see what I get. Tuned right up with No trouble. Looks like I am getting a bit over 100 watts OUT to the load. So, I switched to my beam and hooked up my mic. Tuned across the band. Found the Football station on 14.257, decided I'd give him a call. He had a bit of a pileup going but Came right back to me on the first call. Gave me a 59 with a good audio report. So, Time to go in and align all the coils and see what I get on the other bands.
I will keep you all updated.

73,
Gordon

8512. TS-520 VFO Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-05 21:11:05 UTC
From: Bill
Topic: 8512 Message: 8512

I am looking for a cable for the external VFO-520 to the TS-520. Any info would be appreciated. Also I am in need of the VFO dummy jumper plug. Please contact me.
73 KE4KRN Bill

8513. My Latest Project TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 02:43:22 UTC
From: Gordon
Topic: 8513 Message: 8513

Well, After doing a Full alignment. I get over 100 watts out on every band except 10 meters, where I get about 75 Watts out.
Reception is excellent, The Cw filter works great and I get Good Audio reports. This little TS-520S works VERY well.
I am pleased as it seemed to take very little effort to bring it up to Top Notch.
so, Once I sell it , I will be looking to buy a New Project...

Anyone Interested in this TS-520S or the TS-820/Digital Display that I have to Sell ??

Gordon
N6WK

8514. Re: [TS-520_820_530_830] My Latest Project TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 03:16:13 UTC
From: Don Wildes
Topic: 8513 Message: 8514

I might be interested in the kenwood rig, I currently have one that needs a little help, the previous owner disconnected the heater switch, and hot wired the heater so it is on all the time, He also put a toggle switch on the top cover to switch the cw filter on and off, it also needs the send recieve paddle switch replaced. and a good coat of paint. Other then those little issues it seems well. I get good reports as far as signal and audio. I love these old girls

Don, Kd1zi

Gordon <n6wk@...> wrote:
Well, After doing a Full alignment. I get over 100 watts out on every
band except 10 meters, where I get about 75 Watts out.
Reception is excellent, The Cw filter works great and I get Good Audio
reports. This little TS-520S works VERY well.
I am pleased as it seemed to take very little effort to bring it up to
Top Notch.
so, Once I sell it , I will be looking to buy a New Project...

Anyone Interested in this TS-520S or the TS-820/Digital Display that
I have to Sell ??

Gordon
N6WK

Groups are talking. We´re listening. Check out the handy changes to Yahoo! Groups.

[Non-text portions of this message have been removed]

8515. Re: My Latest Project TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 03:45:19 UTC
From: Gordon
Topic: 8513 Message: 8515

Don,
I'm always looking to Deal....
Contact me OFF list !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Don Wildes <dragon0340@...>
wrote:
>
> I might be interested in the kenwood rig, I currently have one that
needs a little help, the previous owner disconnected the heater
switch, and hot wired the heater so it is on all the time, He also put
a toggle switch on the top cover to switch the cw filter on and off,
it also needs the send recieve paddle switch replaced. and a good coat
of paint. Other then those little issues it seems well. I get good
reports as far as signal and audio. I love these old girls
>
> Don, Kd1zi
>
> Gordon <n6wk@...> wrote:
> Well, After doing a Full alignment. I get over 100 watts
out on every
> band except 10 meters, where I get about 75 Watts out.
> Reception is excellent, The Cw filter works great and I get Good Audio
> reports. This little TS-520S works VERY well.
> I am pleased as it seemed to take very little effort to bring it up to
> Top Notch.
> so, Once I sell it , I will be looking to buy a New Project...
>
> Anyone Interested in this TS-520S or the TS-820/Digital Display that
> I have to Sell ??
>
> Gordon
> N6WK
>
>
>
>
>
>
> ---------------------------------
> Groups are talking. We´re listening. Check out the handy
changes to Yahoo! Groups.
>

> [Non-text portions of this message have been removed]
>

8516. Vintage Kenwoods net - come one, come all

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 12:51:07 UTC
From: Ellen R
Topic: 8516 Message: 8516

Hi everybody,

Sorry I took so long to reply. I've been busy the last few days. Thanks for all of your suggestions and input. It looks like 20m will be the band of choice. It also looks like people are interested in it being on a late afternoon on a Sunday. People are done with things for the weekend, and a late afternoon Sunday net seems like a nice way to wind down. By a small majority you prefer the net to stick to tube, and hybrid Kenwood rigs for topic material.

With these thoughts in mind, I'm gong to try it out today at 2300z. The freq. will be 14.310 MHz. As a startoff duscission topic, we'll have intros, stating what you're running for gear. From there it'll go to whatever Kenwood tube & hybrid topic, anybody brings up. I may need help with relays, etc. I'm not running a huge station. See you on the net.

73,
Ellen - AF9J

8517. Summary of Data from QST Reviews of Amateur HF Transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 16:22:08 UTC
From: N3DOK
Topic: 8517 Message: 8517

Hi, I came across this material in a section of QRZ. You will note the date of the QST issue. This could be at least a year after the Kenwood model was selling. Please refer to the QRZ web site for other transceivers. I listed only the Kenwood models.
Bob N3DOK

http://www.qrz.com/download/library/hf_rigs.txt
Summary of Data from QST Reviews of Amateur HF Transceivers
Version 4 16 Dec 1992

QST	Xmtr	Rcvr					
Rig	Review	Harm.	Spurs	IMD	Min Sig	BlkRng	IMD DR	3rdO Icpt
Issue		dBpep	dBpep	dBpep	dBm	dB	dB	dBm
Kenwood:								
TS-120S	02/80	-60	-49	-36	-139	108	75	-26.5
TS-130	07/81	-55	-45	-38	-138	109	78	-19.5
TS-140	06/88	-46	-30	-137	114	91	-0.5	
TS-180S	05/80	-50	-70	-38	-139	112	82	-14.5
TS-430	03/84	-51	-31	-137	N.L.	90	-2.75	
TS-440	12/86	-65	-43	-28	-139	111	89	-6.5
TS-450S	04/92	-50	-50	-35	-138	108	70	-35 (Note 3)
TS-520	05/78	-133	104	69				
TS-530	03/82	-42	-68	-28	-135	112	88	
TS-680	10/88	-45	-65	-32	-139.5	106.5	92	-1.5
TS-690S	04/92	-50	-50	-35	-138	108	70	-35 (Note 3)
TS-820	09/76	-45	-39	-136	114	85		
TS-830	05/81	-45	-62	-32	-136	129	82	-13
TS-850S	07/91	-64	-64	-28	-141	138	108	+15.5
TS-930	01/84	-50	-50	-35	-139	N.L.	86.5	-7.8
TS-940	02/86	-54	-65	-37	-139	138	93	-0.5
TS-950	01/91	-55	-55	-42	-142	138	99	+5.5
TS950SDX	12/92	<-40	-35	-137	131.5	93	+0.5	

N.L. = Noise Limited
dBpep = dB below PEP output power.

Notes:
1) When receiver values were given for preamp on/off, the preamp on numbers were used here. (or IPO/AIP off)

2) When values for more than one HF Amateur band are given, the worst numbers were used. (example: general coverage receiver numbers for 1.0 MHz were not considered, if a rig covers 50MHz, those numbers were not considered.)

3) Dynamic Range and 3rd order intercept numbers for the TS-450S and TS-690S do not indicate performance as bad as such numbers would usually warrant. Although 3rd order products appeared at the MDS level at a fairly low level, they did not increase in amplitude with rising input signal level as rapidly as one would normally expect. See the QST review for more details.

References:

"Using QSTs to Choose an Old HF Rig", QST, Feb 1987. Includes a table similar to the one above.

"The Product Review Process", QST, Dec 1985. Describes the tests that generate the numbers in the table, and how to interpret them.

[Non-text portions of this message have been removed]

8518. Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 19:04:06 UTC
From: dums2
Topic: 8518 Message: 8518

Thanks Ellen for all the work.
I will be there if propagation permits.
Should be a very informative net.
George K0GWD

8519. 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 20:15:18 UTC
From: Gordon
Topic: 8519 Message: 8519

I am having a disagreement with a fellow. He is telling me that he has owned many TS-820's that all put OUT over 150 watts on 75 meters into his dummy load. (Claims it is a Bird WattMeter)
Now, I did the math and 750 Volts at (a high) 250 ma of plate current equals 187.5 watts of Input. Now, considering these rigs run about 65% efficency, that comes out to 121.875 watts Out or even @ 70% only comes out to 131.25 watts.
Am I missing something here, or is this guy blowing smoke??
Perhaps I'm the one that is Wrong ??? Don't think so, But I have been wrong before..
73,

Gordon

8520. Re: [TS-520_820_530_830] 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 21:52:27 UTC
From: Walt Breining
Topic: 8519 Message: 8520

If he is talking dead key watts on CW, no way.

One exception is a mod that hot rods the rig by doing things like upping the screen voltage. I do not recommend this mod. It strains the finals, transformer, antenna relay contacts, and other components. It likely increases the IMD. These are olde radios. Why hot rod them for less than 1 dB?

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 06, 2006 3:15 PM
Subject: [TS-520_820_530_830] 150 Watts Out by an 820 ?

I am having a disagreement with a fellow. He is telling me that he has
owned many TS-820's that all put OUT over 150 watts on 75 meters into
his dummy load. (Claims it is a Bird WattMeter)
Now, I did the math and 750 Volts at (a high) 250 ma of plate current
equals 187.5 watts of Input. Now, considering these rigs run about 65%
efficency, that comes out to 121.875 watts Out or even @ 70% only
comes out to 131.25 watts.
Am I missing something here, or is this guy blowing smoke??
Perhaps I'm the one that is Wrong ??? Don't think so, But I have been
wrong before..
73,

Gordon

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.7/410 - Release Date: 8/5/06

[Non-text portions of this message have been removed]

8521. Re: [TS-520_820_530_830] 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 21:47:30 UTC
From: Peter A Markavage
Topic: 8519 Message: 8521

Ah yes! Those famous "Bird watts".
And/or, maybe he is diddling with a peak-reading Bird.

Pete, wa2cwa

On Sun, 06 Aug 2006 20:15:18 -0000 "Gordon" <n6wk@...> writes:
> I am having a disagreement with a fellow. He is telling me that he
> has
> owned many TS-820's that all put OUT over 150 watts on 75 meters
> into
> his dummy load. (Claims it is a Bird WattMeter)
> Now, I did the math and 750 Volts at (a high) 250 ma of plate
> current
> equals 187.5 watts of Input. Now, considering these rigs run about
> 65%
> efficency, that comes out to 121.875 watts Out or even @ 70% only
> comes out to 131.25 watts.
> Am I missing something here, or is this guy blowing smoke??
> Perhaps I'm the one that is Wrong ??? Don't think so, But I have
> been
> wrong before..
> 73,
>
> Gordon

8522. Re: TS-520 VFO Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 22:04:35 UTC
From: james27613
Topic: 8512 Message: 8522

hi bill,

the part number for the plug is listed in the
database section of the list, as of today they are not
available at pacparts.com or kenwoodparts.com

the cable is straight connect, 1-1, etc.
pin #7 not used.

8+9 must be jumpered (you already know this)
1 and 2 are for external frequency display spectronics dfd/k or henry
model

73 james ke4drn

8523. Re: [TS-520_820_530_830] Re: TS-520 VFO Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 22:15:34 UTC
From: John Harp
Topic: 8512 Message: 8523

I found someone who will make a cable for you if your interested. He made my amplifier relay cable. I met them on E- Bay. He did a good job too. Are you interested?

james27613 <james27613@...> wrote: hi bill,

the part number for the plug is listed in the
database section of the list, as of today they are not
available at pacparts.com or kenwoodparts.com

the cable is straight connect, 1-1, etc.
pin #7 not used.

8+9 must be jumpered (you already know this)
1 and 2 are for external frequency display spectronics dfd/k or henry
model

73 james ke4drn

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

8524. Re: [TS-520_820_530_830] 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 21:34:35 UTC
From: John Harp
Topic: 8519 Message: 8524

I would not recommend the power be that high on those rigs. Any radio turned up doesn't work better it gets worse, and it won't last long either. When you let the smoke out, they won't work anymore; of course then again, maybe the rest of us can have spare parts we need.HI HI

But seriously, think about it . Have you ever listened to some one on the air before and after they turned off thier linear. Sometimes it made no difference. apply that here, what good does it do.

If you need power use an amp.Turn back the drive and you'll get more out and it'll last.
Walt Breining <n9wb@...> wrote:
If he is talking dead key watts on CW, no way.

One exception is a mod that hot rods the rig by doing things like upping the screen voltage. I do not recommend this mod. It strains the finals, transformer, antenna relay contacts, and other components. It likely increases the IMD. These are olde radios. Why hot rod them for less than 1 dB?

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 06, 2006 3:15 PM
Subject: [TS-520_820_530_830] 150 Watts Out by an 820 ?

I am having a disagreement with a fellow. He is telling me that he has
owned many TS-820's that all put OUT over 150 watts on 75 meters into
his dummy load. (Claims it is a Bird WattMeter)
Now, I did the math and 750 Volts at (a high) 250 ma of plate current
equals 187.5 watts of Input. Now, considering these rigs run about 65%
efficency, that comes out to 121.875 watts Out or even @ 70% only
comes out to 131.25 watts.
Am I missing something here, or is this guy blowing smoke??
Perhaps I'm the one that is Wrong ??? Don't think so, But I have been
wrong before..
73,

Gordon

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.394 / Virus Database: 268.10.7/410 - Release Date: 8/5/06

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8525. Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 22:39:48 UTC
From: Gordon
Topic: 8519 Message: 8525

I'm pretty sure he was referring to key down CW, But hey, I could be
wrong !
He did say it puts out 100 watts on ALL the other bands however !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Ah yes! Those famous "Bird watts".
> And/or, maybe he is diddling with a peak-reading Bird.
>
> Pete, wa2cwa
>
> On Sun, 06 Aug 2006 20:15:18 -0000 "Gordon" <n6wk@...> writes:
> > I am having a disagreement with a fellow. He is telling me that he
> > has
> > owned many TS-820's that all put OUT over 150 watts on 75 meters
> > into
> > his dummy load. (Claims it is a Bird WattMeter)
> > Now, I did the math and 750 Volts at (a high) 250 ma of plate
> > current
> > equals 187.5 watts of Input. Now, considering these rigs run about
> > 65%
> > efficency, that comes out to 121.875 watts Out or even @ 70% only
> > comes out to 131.25 watts.
> > Am I missing something here, or is this guy blowing smoke??
> > Perhaps I'm the one that is Wrong ??? Don't think so, But I have
> > been
> > wrong before..
> > 73,
> >
> > Gordon
>

8526. Re: My Latest Project TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 22:45:26 UTC
From: Gordon
Topic: 8513 Message: 8526

At this Time, Both my Latest 820 and my 520S have been spoken for.
Thanks Guys for all the Interest. Now I am out of rigs to repair .. :-(

Guess I will play radio for a while hi hi..

I'm trying to buy an 830 that doesn't transmit, just trying to agree
on a price.
Oh yea, There is a guy on Ebay that is Parting out an 820S. Might be
some good deals there if you need some hard to find Pieces. He also is
selling some 520 parts. looks like he sliced up the whole rig and is
selling it piece by piece instead of the whole unit.
Do a search for TS-820.

73,
Gordon

8527. Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:07:47 UTC
From: Gordon
Topic: 8508 Message: 8527

I'm listening on 14310 but there is a QSO ongoing there. Is the Net on nearby Ellen ?

Gordon

8528. Re: [TS-520_820_530_830] 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:07:44 UTC
From: Peter A Markavage
Topic: 8519 Message: 8528

There is no front panel control to "turn back the drive" to drive an amp.
You can "de-tune" the rig but that's probably just as bad, if not worse,
than over driving the amp.

Pete, wa2cwa

On Sun, 6 Aug 2006 14:34:35 -0700 (PDT) John Harp <ka3dpw@...>
writes:
>
> If you need power use an amp.Turn back the drive and you'll get
> more out and it'll last.
>

8529. Re: [TS-520_820_530_830] Vintage Kenwoods net - come one, come all

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:14:30 UTC
From: Rick May
Topic: 8516 Message: 8529

Hi Ellen,

I hear you on 14315.0 but the South Americans are clobbering you....

Rick KC0HH
Lamar, Colorado

Ellen R <ellenjoanne2003@...> wrote: Hi everybody,

Sorry I took so long to reply. I've been busy the last few days.
Thanks for all of your suggestions and input. It looks like 20m will
be the band of choice. It also looks like people are interested in it
being on a late afternoon on a Sunday. People are done with things for
the weekend, and a late afternoon Sunday net seems like a nice way to
wind down. By a small majority you prefer the net to stick to tube,
and hybrid Kenwood rigs for topic material.

With these thoughts in mind, I'm gong to try it out today at 2300z.
The freq. will be 14.310 MHz. As a startoff duscission topic, we'll
have intros, stating what you're running for gear. From there it'll go
to whatever Kenwood tube & hybrid topic, anybody brings up. I may need
help with relays, etc. I'm not running a huge station. See you on the
net.

73,
Ellen - AF9J

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8531. Re: [TS-520_820_530_830] Vintage Kenwoods net - come one, come all

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 21:22:21 UTC
From: John Harp
Topic: 8516 Message: 8531

Hi Ellen. Thank You for the info and the work done on the net thing. I will attempt to join you on the 20 meter band at 14.310 if the band will hold opening. Thats the reason I chose 40 in the vote. Nothing against anyone or anything, it's just a more reliable band heree in the sunspot lull. See you tonite hopefully. John-KA3DPW.

Ellen R <ellenjoanne2003@...> wrote: Hi everybody,

Sorry I took so long to reply. I've been busy the last few days.
Thanks for all of your suggestions and input. It looks like 20m will
be the band of choice. It also looks like people are interested in it
being on a late afternoon on a Sunday. People are done with things for
the weekend, and a late afternoon Sunday net seems like a nice way to
wind down. By a small majority you prefer the net to stick to tube,
and hybrid Kenwood rigs for topic material.

With these thoughts in mind, I'm gong to try it out today at 2300z.
The freq. will be 14.310 MHz. As a startoff duscission topic, we'll
have intros, stating what you're running for gear. From there it'll go
to whatever Kenwood tube & hybrid topic, anybody brings up. I may need
help with relays, etc. I'm not running a huge station. See you on the
net.

73,
Ellen - AF9J

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8533. Re: Kenwood Net - change of plans

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:20:24 UTC
From: Ellen R
Topic: 8508 Message: 8533

I heard that some QSO too (some south americans). I've movedto 14.313 MHz. Calling in 30sec.

Ellen - AF9J

--- In TS-520_820_530_830@...m, "Gordon" <n6wk@...> wrote:
>
> I'm listening on 14310 but there is a QSO ongoing there. Is the Net on
> nearby Ellen ?
>
> Gordon
>

8534. RE: [TS-520_820_530_830] Vintage Kenwoods net - come one, come all

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:31:29 UTC
From: Apterman, Mark
Topic: 8516 Message: 8534

Hello Ellen,
Not wishing to cause any trouble, but those of us that live West of the International dateline such as those ZL or VK the Sched time is Monday morning.I am at work right now. I would love as I am sure other VK's or ZL's who work to take part in the net.

I know you cant please everyone all the time. Its a shame you cant run the net at Sat night in the US instead of Sunday night.
Just a thought.

73's
Mark.
VK3VLY.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Rick May
Sent: Monday, 7 August 2006 9:15
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Vintage Kenwoods net - come one, come all

Hi Ellen,

I hear you on 14315.0 but the South Americans are clobbering you....

Rick KC0HH
Lamar, Colorado

Ellen R < ellenjoanne2003@ <mailto:ellenjoanne2003%40sbcglobal.net> sbcglobal.net> wrote:
Hi everybody,

Sorry I took so long to reply. I've been busy the last few days.
Thanks for all of your suggestions and input. It looks like 20m will
be the band of choice. It also looks like people are interested in it
being on a late afternoon on a Sunday. People are done with things for
the weekend, and a late afternoon Sunday net seems like a nice way to
wind down. By a small majority you prefer the net to stick to tube,
and hybrid Kenwood rigs for topic material.

With these thoughts in mind, I'm gong to try it out today at 2300z.
The freq. will be 14.310 MHz. As a startoff duscission topic, we'll
have intros, stating what you're running for gear. From there it'll go
to whatever Kenwood tube & hybrid topic, anybody brings up. I may need
help with relays, etc. I'm not running a huge station. See you on the
net.

73,
Ellen - AF9J

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

_____

This message is for the designated recipient only and may contain privileged, proprietary, or otherwise private information. If you have received it in error, please notify the sender immediately and delete the original. Any other use of the email by you is prohibited.

Dansk - Deutsch - Espanol - Francais - Italiano - Japanese - Nederlands - Norsk - Portuguese - Svenska: www.cardinalhealth.com/legal/email

[Non-text portions of this message have been removed]

8535. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:40:51 UTC
From: Ellen R
Topic: 8508 Message: 8535

Due to serious splatter from some hams on 14.310, that is even hitting me 14.313, I've moved down to 14.304 MHz. I will call there for a while. 20 has gone long. If this doesn't work, I may QSY to 40m, and make it a roundtable of sorts.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> I heard that some QSO too (some south americans). I've movedto 14.313
> MHz. Calling in 30sec.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I'm listening on 14310 but there is a QSO ongoing there. Is the Net on
> > nearby Ellen ?
> >
> > Gordon
> >
>

8537. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:52:06 UTC
From: Gordon
Topic: 8508 Message: 8537

Hi Ellen,
I listened for you on 14.313, but Nothing heard here. I did work Rick KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff and the fact that steve had just replaced the Product detectors in his 830 with better ones. His Signal sounded great.
I sure ish I could have heard you as well. The band is NOT very cooperative today.
If you drop to 40, please let us know the frequency so i can look for you. The ZL had a Valid point in his post. It is Monday there, and they are all at work at this hour. Perhaps we should move the net back to Saturday and let everyone play with us..

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Due to serious splatter from some hams on 14.310, that is even hitting
> me 14.313, I've moved down to 14.304 MHz. I will call there for a
> while. 20 has gone long. If this doesn't work, I may QSY to 40m, and
> make it a roundtable of sorts.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > I heard that some QSO too (some south americans). I've movedto 14.313
> > MHz. Calling in 30sec.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > I'm listening on 14310 but there is a QSO ongoing there. Is the Net
> on
> > > nearby Ellen ?
> > >
> > > Gordon
> > >
> > >
>

8538. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:54:24 UTC
From: Ellen R
Topic: 8508 Message: 8538

I will call until 0000z on 14.304, and then I will go QRT to eat some supper, and QSY to 40m, and try to get a roundtable going. It's looking like a no-go today on 20m. Also, as was mentioned in another post, it would be better for the VKs and ZLs, if we held it on a Saturday morning.

Today, condx. are part of the problem, the other problem is one I've encountered for years, some hams who don't seem to believe in watching their ALC.

I'll let you all know when I go to 40m - maybe we can get a roundtable going on that band.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Due to serious splatter from some hams on 14.310, that is even hitting
> me 14.313, I've moved down to 14.304 MHz. I will call there for a
> while. 20 has gone long. If this doesn't work, I may QSY to 40m, and
> make it a roundtable of sorts.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > I heard that some QSO too (some south americans). I've movedto 14.313
> > MHz. Calling in 30sec.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > I'm listening on 14310 but there is a QSO ongoing there. Is the Net
> on
> > > nearby Ellen ?
> > >
> > > Gordon
> > >

> >
>

8539. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-06 23:55:12 UTC
From: Gordon
Topic: 8508 Message: 8539

Sorry, That should have red.. the VK had a good point... Sorry OM !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> I listened for you on 14.313, but Nothing heard here. I did work Rick
> KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff and the
> fact that steve had just replaced the Product detectors in his 830
> with better ones. His Signal sounded great.
> I sure ish I could have heard you as well. The band is NOT very
> cooperative today.
> If you drop to 40, please let us know the frequency so i can look for
> you. The ZL had a Valid point in his post. It is Monday there, and
> they are all at work at this hour. Perhaps we should move the net back
> to Saturday and let everyone play with us..
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Due to serious splatter from some hams on 14.310, that is even
hitting
> > me 14.313, I've moved down to 14.304 MHz. I will call there for a
> > while. 20 has gone long. If this doesn't work, I may QSY to 40m, and
> > make it a roundtable of sorts.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > I heard that some QSO too (some south americans). I've movedto
14.313
> > > MHz. Calling in 30sec.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > I'm listening on 14310 but there is a QSO ongoing there. Is

```
the Net
> > on
> > > > nearby Ellen ?
> > > >
> > > > Gordon
> > > > >
> > >
> >
>
```

8540. RE: [TS-520_820_530_830] Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 00:05:11 UTC
From: Apterman, Mark
Topic: 8508 Message: 8540

Thats O.K. Gordon , VK's and ZL's are cousins anyway.

Regards
Mark.
VK3VLY

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Gordon
Sent: Monday, 7 August 2006 9:55
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Kenwood Net - change of plans, here we go again

Sorry, That should have red.. the VK had a good point... Sorry OM !

73,
Gordon

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> I listened for you on 14.313, but Nothing heard here. I did work Rick
> KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff and the
> fact that steve had just replaced the Product detectors in his 830
> with better ones. His Signal sounded great.
> I sure ish I could have heard you as well. The band is NOT very
> cooperative today.
> If you drop to 40, please let us know the frequency so i can look for
> you. The ZL had a Valid point in his post. It is Monday there, and
> they are all at work at this hour. Perhaps we should move the net back
> to Saturday and let everyone play with us..
>
> 73,
> Gordon
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Due to serious splatter from some hams on 14.310, that is even hitting
> > me 14.313, I've moved down to 14.304 MHz. I will call there for a
> > while. 20 has gone long. If this doesn't work, I may QSY to 40m, and
> > make it a roundtable of sorts.

> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > I heard that some QSO too (some south americans). I've movedto
14.313
> > > MHz. Calling in 30sec.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > I'm listening on 14310 but there is a QSO ongoing there. Is
the Net
> > on
> > > > nearby Ellen ?
> > > >
> > > > Gordon
> > > >
> > >
> > >
> >

This message is for the designated recipient only and may contain privileged, proprietary, or otherwise private information. If you have received it in error, please notify the sender immediately and delete the original. Any other use of the email by you is prohibited.

Dansk - Deutsch - Espanol - Francais - Italiano - Japanese - Nederlands - Norsk - Portuguese - Svenska: www.cardinalhealth.com/legal/email

[Non-text portions of this message have been removed]

8541. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 00:13:07 UTC
From: Ellen R
Topic: 8508 Message: 8541

Hi Gordon,

Yeah, Rick is the one who called me on 14.313, and informed me that the splatter was killing me (thanks for hearing me Rick :)). 20m seems to be really long. Also, I live a bit further north than most of you, so the condx on 20m are effectively at a later in the day time period, than they are for those south of me, in the same time zone. Yeah, preliminarily, I'm thinking that Saturday morning or afternoon would be best for the net on 20m.

I had planned on trying some 40m roundtables anyway. Soooo, I'm going to get supper going (I didn't get home from the animal shelter until 15 minutes before the net), QSY to 40m while supper is cooking, and tune for a clear freq. I'm hoping to find one above 7.225 MHz so that I can also get some General Class licensees to join in, but I'm not holding my breath. 40m is a QRM trainwreck above 7.225 MHz, due to all of the BCI. Usually when I find a clear freq. on 40, it's down below 7.170. Still, I will attempt to find a clear freq. above 7.225 MHz. I'll let everybody know what's up.

Catch you later,
AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> I listened for you on 14.313, but Nothing heard here. I did work
Rick
> KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff and
the
> fact that steve had just replaced the Product detectors in his 830
> with better ones. His Signal sounded great.
> I sure ish I could have heard you as well. The band is NOT very
> cooperative today.
> If you drop to 40, please let us know the frequency so i can look
for
> you. The ZL had a Valid point in his post. It is Monday there, and
> they are all at work at this hour. Perhaps we should move the net
back
> to Saturday and let everyone play with us..
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:

> >
> > Due to serious splatter from some hams on 14.310, that is even
hitting
> > me 14.313, I've moved down to 14.304 MHz. I will call there for
a
> > while. 20 has gone long. If this doesn't work, I may QSY to 40m,
and
> > make it a roundtable of sorts.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > I heard that some QSO too (some south americans). I've movedto
14.313
> > > MHz. Calling in 30sec.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > >
> > > > I'm listening on 14310 but there is a QSO ongoing there. Is
the Net
> > on
> > > > nearby Ellen ?
> > > >
> > > > Gordon
> > > >
> > >
> >
>

8542. anybody wanna roundtable?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:23:44 UTC
From: Ellen R
Topic: 8542 Message: 8542

Hi Everybody,

I'm done with everything for the night. So I'm going to go ahead with my attempt at a 40m roundtable in place of the net that didn't get goin earlier today. I am on 7242 KHz. C'mon, let's see if we can get a Classic Kenwoods roundtable going on 40m. I'm calling now.

73,
Ellen - AF9J

8543. kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:32:14 UTC
From: bob54quam@cs.com
Topic: 8543 Message: 8543

Ellen
I am listening on 7242 and not hearing anything
Bob
KI0KM

[Non-text portions of this message have been removed]

8544. Re: [TS-520_820_530_830] Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:40:30 UTC
From: Rick May
Topic: 8508 Message: 8544

Hi Ellen,

I actually heard you pretty well when you were calling 'CQ' in the clear, but the South American stations off the side took you right out. I would very much like to check my 830S on 40 meters to hear what swapping my product detector diodes out with Schottky barrier diodes did. It made a very notable improvement on 20 meters. Much quieter ....I will not be able to get on 40 until about 11:00 CDT, but I will tune around.

73' Rick KC0HH
Lamar, Colorado

Ellen R <ellenjoanne2003@...> wrote: Hi Gordon,

Yeah, Rick is the one who called me on 14.313, and informed me that the splatter was killing me (thanks for hearing me Rick :)). 20m seems to be really long. Also, I live a bit further north than most of you, so the condx on 20m are effectively at a later in the day time period, than they are for those south of me, in the same time zone. Yeah, preliminarily, I'm thinking that Saturday morning or afternoon would be best for the net on 20m.

I had planned on trying some 40m roundtables anyway. Soooo, I'm going to get supper going (I didn't get home from the animal shelter until 15 minutes before the net), QSY to 40m while supper is cooking, and tune for a clear freq. I'm hoping to find one above 7.225 MHz so that I can also get some General Class licensees to join in, but I'm not holding my breath. 40m is a QRM trainwreck above 7.225 MHz, due to all of the BCI. Usually when I find a clear freq. on 40, it's down below 7.170. Still, I will attempt to find a clear freq. above 7.225 MHz. I'll let everybody know what's up.

Catch you later,
AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Ellen,
> I listened for you on 14.313, but Nothing heard here. I did work
Rick
> KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff and
the
> fact that steve had just replaced the Product detectors in his 830
> with better ones. His Signal sounded great.
> I sure ish I could have heard you as well. The band is NOT very
> cooperative today.

> If you drop to 40, please let us know the frequency so i can look
for
> you. The ZL had a Valid point in his post. It is Monday there, and
> they are all at work at this hour. Perhaps we should move the net
back
> to Saturday and let everyone play with us..
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Due to serious splatter from some hams on 14.310, that is even
hitting
> > me 14.313, I've moved down to 14.304 MHz. I will call there for
a
> > while. 20 has gone long. If this doesn't work, I may QSY to 40m,
and
> > make it a roundtable of sorts.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > I heard that some QSO too (some south americans). I've movedto
14.313
> > > MHz. Calling in 30sec.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > >
> > > > I'm listening on 14310 but there is a QSO ongoing there. Is
the Net
> > on
> > > > nearby Ellen ?
> > > >
> > > > Gordon
> > > >
> > >
> >
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1¢/min.

[Non-text portions of this message have been removed]

8545. Re: kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:42:23 UTC
From: Ellen R
Topic: 8543 Message: 8545

Hi Bob,

I have a lot of QRN from the thunderstorms that came through earlier today. I moved up to 7243. Want me to keep calling? Otherwise, I'm just going to call it a night.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> Ellen
> I am listening on 7242 and not hearing anything
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

8546. Re: [TS-520_820_530_830] Re: kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:44:04 UTC
From: bob54quam@cs.com
Topic: 8543 Message: 8546

Give it a try I'll listen
Bob

[Non-text portions of this message have been removed]

8547. Re: [TS-520_820_530_830] Re: kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:47:21 UTC
From: Bill Leahy
Topic: 8543 Message: 8547

k0zl on 7243 right now.

b

On 8/6/06, Ellen R <ellenjoanne2003@sbcglobal.net> wrote:
>
> Hi Bob,
>
> I have a lot of QRN from the thunderstorms that came through earlier
> today. I moved up to 7243. Want me to keep calling? Otherwise, I'm
> just going to call it a night.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> bob54quam@... wrote:
> >
> > Ellen
> > I am listening on 7242 and not hearing anything
> > Bob
> > KI0KM
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

8548. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 02:53:07 UTC
From: Ellen R
Topic: 8508 Message: 8548

Hi Rick,

Thanks for coming back to me on 20m. At the risk of sounding like a jerk, I have to ask this question - why do so many South American stations drive the living daylights out of their mic ALC circuits. Do they actually think that by maxing out their mic gain, they'll put out more power, and get out better? I've been dealing with this problem, ever since I got my General License back in 1986. I admit, they aren't all like that. I've heard and worked some South American hams that are fantastic operators. But, so many of them operate like CBers using illegal amps.

With regards to 40m - I don't know if I'll last until 11pm. I tell you what - I'll take a nap until 11pm. We can try to hook up on 40 then. I'll find an open freq. on 40m,and start calling you. I'll let you know via a post, what freq. I'm on. Until later.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Ellen,
>
> I actually heard you pretty well when you were calling 'CQ' in the clear, but the South American stations off the side took you right out. I would very much like to check my 830S on 40 meters to hear what swapping my product detector diodes out with Schottky barrier diodes did. It made a very notable improvement on 20 meters. Much quieter ....I will not be able to get on 40 until about 11:00 CDT, but I will tune around.
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> Ellen R <ellenjoanne2003@...>
wrote: Hi Gordon,
>
> Yeah, Rick is the one who called me on 14.313, and informed me
that
> the splatter was killing me (thanks for hearing me Rick :)). 20m
> seems to be really long. Also, I live a bit further north than
most
> of you, so the condx on 20m are effectively at a later in the day
> time period, than they are for those south of me, in the same time
> zone. Yeah, preliminarily, I'm thinking that Saturday morning or

> afternoon would be best for the net on 20m.
>
> I had planned on trying some 40m roundtables anyway. Soooo, I'm
> going to get supper going (I didn't get home from the animal
shelter
> until 15 minutes before the net), QSY to 40m while supper is
cooking,
> and tune for a clear freq. I'm hoping to find one above 7.225 MHz
so
> that I can also get some General Class licensees to join in, but
I'm
> not holding my breath. 40m is a QRM trainwreck above 7.225 MHz,
due
> to all of the BCI. Usually when I find a clear freq. on 40, it's
> down below 7.170. Still, I will attempt to find a clear freq.
above
> 7.225 MHz. I'll let everybody know what's up.
>
> Catch you later,
> AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Ellen,
> > I listened for you on 14.313, but Nothing heard here. I did
work
> Rick
> > KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff
and
> the
> > fact that steve had just replaced the Product detectors in his
830
> > with better ones. His Signal sounded great.
> > I sure ish I could have heard you as well. The band is NOT very
> > cooperative today.
> > If you drop to 40, please let us know the frequency so i can
look
> for
> > you. The ZL had a Valid point in his post. It is Monday there,
and
> > they are all at work at this hour. Perhaps we should move the
net
> back
> > to Saturday and let everyone play with us..
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:

> > >
> > > Due to serious splatter from some hams on 14.310, that is even
> hitting
> > > me 14.313, I've moved down to 14.304 MHz. I will call there
for
> a
> > > while. 20 has gone long. If this doesn't work, I may QSY to
40m,
> and
> > > make it a roundtable of sorts.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > I heard that some QSO too (some south americans). I've
movedto
> 14.313
> > > > MHz. Calling in 30sec.
> > > >
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > >
> > > > > I'm listening on 14310 but there is a QSO ongoing there.
Is
> the Net
> > > on
> > > > > nearby Ellen ?
> > > > >
> > > > > Gordon
> > > > >
> > > >
> > > >
> > >
> >
>
>
>
>
>
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>

8549. Re: kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 03:01:02 UTC
From: Ellen R
Topic: 8543 Message: 8549

Bill, I didn't hear you. I'm going to try againn with Rick, at 10pm
your time.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
<k0zl.ham@...> wrote:
>
> k0zl on 7243 right now.
>
> b
>
>
> On 8/6/06, Ellen R <ellenjoanne2003@...> wrote:
> >
> > Hi Bob,
> >
> > I have a lot of QRN from the thunderstorms that came through
earlier
> > today. I moved up to 7243. Want me to keep calling? Otherwise, I'm
> > just going to call it a night.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%
40yahoogroups.com>,
> > bob54quam@ wrote:
> > >
> > > Ellen
> > > I am listening on 7242 and not hearing anything
> > > Bob
> > > KI0KM
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

8550. Re: [TS-520_820_530_830] Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 03:03:46 UTC
From: Bill Leahy
Topic: 8508 Message: 8550

Norte Americanos do the same thing; I think it's macho to watch my ALC meter slamming the right hand peg. The very idea of the gold plating coming off my 8877 grid on voice peaks gives me shivers.

If I crank my max output on the 850 all the way down, I get 4.5 watts out and the ALC will stay pegged on the right which is very gratifying.

tongue in cheek here of course.

Bill K0ZL

On 8/6/06, Ellen R <ellenjoanne2003@...> wrote:
>
>
>
>
>
>
>
> Hi Rick,
>
> Thanks for coming back to me on 20m. At the risk of sounding like a
> jerk, I have to ask this question - why do so many South American
> stations drive the living daylights out of their mic ALC circuits.
> Do they actually think that by maxing out their mic gain, they'll put
> out more power, and get out better? I've been dealing with this
> problem, ever since I got my General License back in 1986. I admit,
> they aren't all like that. I've heard and worked some South American
> hams that are fantastic operators. But, so many of them operate like
> CBers using illegal amps.
>
> With regards to 40m - I don't know if I'll last until 11pm. I tell
> you what - I'll take a nap until 11pm. We can try to hook up on 40
> then. I'll find an open freq. on 40m,and start calling you. I'll
> let you know via a post, what freq. I'm on. Until later.
>
> 73,
> Ellen - AF9J
>

8551. Re: kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 03:03:02 UTC
From: Ellen R
Topic: 8543 Message: 8551

Bob,

I'm going to try again at 11pm, with Rick. You're welcome to join in.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> Give it a try I'll listen
> Bob
>
>
> [Non-text portions of this message have been removed]
>

8552. Re: [TS-520_820_530_830] Re: kenwood net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 03:04:08 UTC
From: Bill Leahy
Topic: 8543 Message: 8552

will be qrv there.

b

On 8/6/06, Ellen R <ellenjoanne2003@...> wrote:
>
> Bill, I didn't hear you. I'm going to try againn with Rick, at 10pm
> your time.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "Bill Leahy"
> <k0zl.ham@...> wrote:
> >
> > k0zl on 7243 right now.
> >
> > b
> >
> >
> > On 8/6/06, Ellen R <ellenjoanne2003@...> wrote:
> > >
> > > Hi Bob,
> > >
> > > I have a lot of QRN from the thunderstorms that came through
> earlier
> > > today. I moved up to 7243. Want me to keep calling? Otherwise, I'm
> > > just going to call it a night.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>
> <TS-520_820_530_830%
> 40yahoogroups.com>,
> > > bob54quam@ wrote:
> > > >
> > > > Ellen
> > > > I am listening on 7242 and not hearing anything
> > > > Bob
> > > > KI0KM
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >

> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

[Non-text portions of this message have been removed]

8553. Re: [TS-520_820_530_830] Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 03:03:26 UTC
From: Peter A Markavage
Topic: 8508 Message: 8553

Probably cause they either disabled, or don't use an ALC connection
between their exciter and amplifier. Not uncommon if you envision
yourself as a DX entity and want to have a strapping signal at all
costs. It's an ego thing.

Pete, wa2cwa

On Mon, 07 Aug 2006 02:53:07 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Hi Rick,
>
> Thanks for coming back to me on 20m. At the risk of sounding like a
>
> jerk, I have to ask this question - why do so many South American
> stations drive the living daylights out of their mic ALC circuits.
>
> Do they actually think that by maxing out their mic gain, they'll
> put
> out more power, and get out better? I've been dealing with this
> problem, ever since I got my General License back in 1986. I admit,
>
> they aren't all like that. I've heard and worked some South
> American
> hams that are fantastic operators. But, so many of them operate
> like
> CBers using illegal amps.
>
> With regards to 40m - I don't know if I'll last until 11pm. I tell
>
> you what - I'll take a nap until 11pm. We can try to hook up on 40
>
> then. I'll find an open freq. on 40m,and start calling you. I'll
> let you know via a post, what freq. I'm on. Until later.
>
> 73,
> Ellen - AF9J

8554. Re: Kenwood Net - change of plans, here we go again - I'm on 40 m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 04:09:02 UTC
From: Ellen R
Topic: 8508 Message: 8554

OK, I'm now on 7242 KHz. I'll start calling CQ.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Rick,
>
> Thanks for coming back to me on 20m. At the risk of sounding like
a
> jerk, I have to ask this question - why do so many South American
> stations drive the living daylights out of their mic ALC circuits.
> Do they actually think that by maxing out their mic gain, they'll
put
> out more power, and get out better? I've been dealing with this
> problem, ever since I got my General License back in 1986. I
admit,
> they aren't all like that. I've heard and worked some South
American
> hams that are fantastic operators. But, so many of them operate
like
> CBers using illegal amps.
>
> With regards to 40m - I don't know if I'll last until 11pm. I tell
> you what - I'll take a nap until 11pm. We can try to hook up on 40
> then. I'll find an open freq. on 40m,and start calling you. I'll
> let you know via a post, what freq. I'm on. Until later.
>
> 73,
> Ellen - AF9J
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Hi Ellen,
> >
> > I actually heard you pretty well when you were calling 'CQ'
in
> the clear, but the South American stations off the side took you
> right out. I would very much like to check my 830S on 40 meters to
> hear what swapping my product detector diodes out with Schottky
> barrier diodes did. It made a very notable improvement on 20
meters.
> Much quieter ....I will not be able to get on 40 until about 11:00

> CDT, but I will tune around.
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> > Ellen R <ellenjoanne2003@>
> wrote: Hi Gordon,
> >
> > Yeah, Rick is the one who called me on 14.313, and informed me
> that
> > the splatter was killing me (thanks for hearing me Rick :)).
20m
> > seems to be really long. Also, I live a bit further north than
> most
> > of you, so the condx on 20m are effectively at a later in the
day
> > time period, than they are for those south of me, in the same
time
> > zone. Yeah, preliminarily, I'm thinking that Saturday morning or
> > afternoon would be best for the net on 20m.
> >
> > I had planned on trying some 40m roundtables anyway. Soooo, I'm
> > going to get supper going (I didn't get home from the animal
> shelter
> > until 15 minutes before the net), QSY to 40m while supper is
> cooking,
> > and tune for a clear freq. I'm hoping to find one above 7.225
MHz
> so
> > that I can also get some General Class licensees to join in, but
> I'm
> > not holding my breath. 40m is a QRM trainwreck above 7.225 MHz,
> due
> > to all of the BCI. Usually when I find a clear freq. on 40,
it's
> > down below 7.170. Still, I will attempt to find a clear freq.
> above
> > 7.225 MHz. I'll let everybody know what's up.
> >
> > Catch you later,
> > AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > >
> > > Hi Ellen,
> > > I listened for you on 14.313, but Nothing heard here. I did
> work
> > Rick
> > > KC0HH and Steve K7QHU on 313. We discussed some 520/820 stuff

> and
> > the
> > > fact that steve had just replaced the Product detectors in his
> 830
> > > with better ones. His Signal sounded great.
> > > I sure ish I could have heard you as well. The band is NOT
very
> > > cooperative today.
> > > If you drop to 40, please let us know the frequency so i can
> look
> > for
> > > you. The ZL had a Valid point in his post. It is Monday
there,
> and
> > > they are all at work at this hour. Perhaps we should move the
> net
> > back
> > > to Saturday and let everyone play with us..
> > >
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Due to serious splatter from some hams on 14.310, that is
even
> > hitting
> > > > me 14.313, I've moved down to 14.304 MHz. I will call there
> for
> > a
> > > > while. 20 has gone long. If this doesn't work, I may QSY to
> 40m,
> > and
> > > > make it a roundtable of sorts.
> > > >
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > > <ellenjoanne2003@> wrote:
> > > > >
> > > > > I heard that some QSO too (some south americans). I've
> movedto
> > 14.313
> > > > > MHz. Calling in 30sec.
> > > > >
> > > > > Ellen - AF9J
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>

> > wrote:
> > > > > >
> > > > > > I'm listening on 14310 but there is a QSO ongoing there.
> Is
> > the Net
> > > > > on
> > > > > > > nearby Ellen ?
> > > > > > >
> > > > > > > Gordon
> > > > > > >
> > > > > >
> > > > >
> > >
> >
> >
> >
> >
> >
> >
> > ---
> > Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
> Great rates starting at 1¢/min.
> >
> > [Non-text portions of this message have been removed]
> >
>

8555. Good night

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 04:21:10 UTC
From: Ellen R
Topic: 8555 Message: 8555

Condx. just aren't happening tonight. I called for 10 minutes straight on 7242 KHz, and heard no replies. I'm calling it a night. Goodnight everybody.

73,
Ellen - AF9J

8556. Re: [TS-520_820_530_830] Good night

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 04:25:54 UTC
From: Jeffrey P. Nast
Topic: 8555 Message: 8556

Didn't hear anything here near Duluth MN....

Good night, and thanks for trying!

-Jeff KC0MKS

Ellen R wrote:
>
> Condx. just aren't happening tonight. I called for 10 minutes straight
> on 7242 KHz, and heard no replies. I'm calling it a night. Goodnight
> everybody.
>
> 73,
> Ellen - AF9J
>
>

8557. Re: [TS-520_820_530_830] Good night

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 04:58:44 UTC
From: Rick May
Topic: 8555 Message: 8557

Hi Ellen,

No go .. I am hearing African A.M. stations and the BBC on 40 meters. Try it again later.

73' Rick KC0HH
Lamar, Colorado

Ellen R <ellenjoanne2003@...> wrote:
Condx. just aren't happening tonight. I called for 10 minutes straight
on 7242 KHz, and heard no replies. I'm calling it a night. Goodnight
everybody.

73,
Ellen - AF9J

73' Rick KC0HH
Lamar, Colorado

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8558. Re: My Latest Project TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 05:10:51 UTC
From: Gordon
Topic: 8513 Message: 8558

Well, It looks like my 520S is still up for sale.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> At this Time, Both my Latest 820 and my 520S have been spoken for.
> Thanks Guys for all the Interest. Now I am out of rigs to repair .. :-(
>
> Guess I will play radio for a while hi hi..
>
> I'm trying to buy an 830 that doesn't transmit, just trying to agree
> on a price.
> Oh yea, There is a guy on Ebay that is Parting out an 820S. Might be
> some good deals there if you need some hard to find Pieces. He also is
> selling some 520 parts. looks like he sliced up the whole rig and is
> selling it piece by piece instead of the whole unit.
> Do a search for TS-820.
>
> 73,
> Gordon
>

8559. Re: [TS-520_820_530_830]Shottky barrier diodes - 1N5711 Spec Sheet

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 05:35:51 UTC
From: Rick May
Topic: 8513 Message: 8559

Hi Gordon (and the group),

Here is a pdf file that is the spec sheet for the 1N5711/1N6263 dides I used in both the product detector and balanced modulator in my 830S. The results are amazing. I do not have a scope to look at either receive or trasnsmit audio but I have a program that uses my P.C. and sound card as a spectrum analyzer and feeding receive audio and transmit audio via the monitor circuit results in much lower noise spikes. Not scientific at all but a noticeable improvment.

I enjoyed the short chat on 20 meters today.

73' Rick KC0HH
Lamar, Colorado

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8561. [TS-520_820_530_830]Shottky barrier diodes - 1N5711 Spec Sheet

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 06:03:43 UTC
From: Rick May
Topic: 8513 Message: 8561

I forgot you can't attach files ..Anyone wanting the info and spec sheet for the Shottky barrier diodes I used in my 830S, e-mail me direct and I will send it to you.

73' Rick KC0HH
Lamar, Colorado

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8562. Re: [TS-520_820_530_830]Shottky barrier diodes - 1N5711 Spec Sheet

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 06:16:24 UTC
From: Peter A Markavage
Topic: 8513 Message: 8562

It's not clear to me how adding shottky diodes to the balanced modulator or product detector would give this result: "results in much lower noise spikes". I can only assume you saw this result on the receive side. If so, what was your noise blanker doing during this time (in/out)?

Pete, wa2cwa

On Sun, 6 Aug 2006 22:35:51 -0700 (PDT) Rick May <kc0hh@...> writes:
> Hi Gordon (and the group),
>
> Here is a pdf file that is the spec sheet for the 1N5711/1N6263
> dides I used in both the product detector and balanced modulator in
> my 830S. The results are amazing. I do not have a scope to look at
> either receive or trasnsmit audio but I have a program that uses my
> P.C. and sound card as a spectrum analyzer and feeding receive audio
> and transmit audio via the monitor circuit results in much lower
> noise spikes. Not scientific at all but a noticeable improvment.
>
> I enjoyed the short chat on 20 meters today.
>
> 73' Rick KC0HH
> Lamar, Colorado

8563. Re: [TS-520_820_530_830] Re: Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 06:35:37 UTC
From: Peter A Markavage
Topic: 8508 Message: 8563

I figured this all was going to happen; hence my original statement about the net several days ago. My personal opinion would be you'll never please everyone time wise on the reflector with over a 1K worldwide members. Plus, frequencies being occupied where you want to have the net, adjacent QRM, changing band conditions, etc. all play into a very frustrating experience for all who want to participate. I would suggest identifying a range of frequencies, say on 20, 40, or 75 meters where typically "vintage" Kenwood rig owners could hang out. Members could frequent those frequency ranges at times based on their area of the world. Members could call CQ vintage Kenwood user's group or something like that. Maybe after several weeks of this type of semi random activity, and members reporting back to the reflector on their contact successes, a clearer picture of times, frequencies, band conditions, etc., i.e. when most people seem to be collecting around a particular time/frequency etc.

If we had audio on this reflector, we could have vintage Kenwood chat room and it could be open 24/7. Wouldn't even have to call CQ. Just bang on the microphone and yell YO.

Pete, wa2cwa

On Sun, 06 Aug 2006 23:54:24 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> I will call until 0000z on 14.304, and then I will go QRT to eat some
>
> supper, and QSY to 40m, and try to get a roundtable going. It's
> looking like a no-go today on 20m. Also, as was mentioned in
> another
> post, it would be better for the VKs and ZLs, if we held it on a
> Saturday morning.
>
> Today, condx. are part of the problem, the other problem is one I've
>
> encountered for years, some hams who don't seem to believe in
> watching their ALC.
>
> I'll let you all know when I go to 40m - maybe we can get a
> roundtable going on that band.
>
> 73,
> Ellen - AF9J

8564. Re: [TS-520_820_530_830] Vintage Kenwoods net - come one, come all

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 09:26:12 UTC
From: Charles Mortimer
Topic: 8516 Message: 8564

i think i will haft to second that
----- Original Message -----
From: "Apterman, Mark" <Mark.Apterman@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, August 07, 2006 7:31 AM
Subject: RE: [TS-520_820_530_830] Vintage Kenwoods net - come one, come all

> Hello Ellen,
> Not wishing to cause any trouble, but those of us that live West of the
> International dateline such as those ZL or VK the Sched time is Monday
> morning.I am at work right now. I would love as I am sure other VK's or
> ZL's who work to take part in the net.
>
> I know you cant please everyone all the time. Its a shame you cant run the
> net at Sat night in the US instead of Sunday night.
> Just a thought.
>
> 73's
> Mark.
> VK3VLY.
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Rick May
> Sent: Monday, 7 August 2006 9:15
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Vintage Kenwoods net - come one, come
> all
>
>
>
> Hi Ellen,
>
> I hear you on 14315.0 but the South Americans are clobbering you....
>
> Rick KC0HH
> Lamar, Colorado
>
> Ellen R < ellenjoanne2003@ <mailto:ellenjoanne2003%40sbcglobal.net>
> sbcglobal.net> wrote: Hi everybody,
>
> Sorry I took so long to reply. I've been busy the last few days.
> Thanks for all of your suggestions and input. It looks like 20m will
> be the band of choice. It also looks like people are interested in it

> being on a late afternoon on a Sunday. People are done with things for
> the weekend, and a late afternoon Sunday net seems like a nice way to
> wind down. By a small majority you prefer the net to stick to tube,
> and hybrid Kenwood rigs for topic material.
>
> With these thoughts in mind, I'm gong to try it out today at 2300z.
> The freq. will be 14.310 MHz. As a startoff duscission topic, we'll
> have intros, stating what you're running for gear. From there it'll go
> to whatever Kenwood tube & hybrid topic, anybody brings up. I may need
> help with relays, etc. I'm not running a huge station. See you on the
> net.
>
> 73,
> Ellen - AF9J
>
>
>
>
>
>
> ---
> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
> ---
>
> This message is for the designated recipient only and may contain
> privileged, proprietary, or otherwise private information. If you have
> received it in error, please notify the sender immediately and delete the
> original. Any other use of the email by you is prohibited.
>
> Dansk - Deutsch - Espanol - Francais - Italiano - Japanese - Nederlands -
> Norsk - Portuguese - Svenska: www.cardinalhealth.com/legal/email
>
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>

>
>
>
>

8566. TS520S pa bandswitch required..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 12:02:15 UTC
From: vk3bfa
Topic: 8566 Message: 8566

OK, this is probably a forlorn hope, BUT - anyone got a spare TS520S pa bandswitch lying around (its the one living in the pa cage) - I fixed the drive tuning problem I spoke of the other night (broken track on the driver PCB) and on test, the damm pa switch started arcing over .....now halfway through (literally) dismantling the pa section to get to it, but logic tells me it will be stuffed. Looking for a new (hah!) bandswitch, Kenwood report them as "discontinued" - could POSSIBLY wire a string of relays in their ALA TS440 etc to do the job, but would be tedious to say the least.

Andrew VK3BFA.

8567. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 12:35:08 UTC
From: Ellen R
Topic: 8508 Message: 8567

Yeah and verily Pete! You've got that right!

73,
ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Probably cause they either disabled, or don't use an ALC connection
> between their exciter and amplifier. Not uncommon if you envision
> yourself as a DX entity and want to have a strapping signal at all
> costs. It's an ego thing.
>
> Pete, wa2cwa
>
> On Mon, 07 Aug 2006 02:53:07 -0000 "Ellen R"
> <ellenjoanne2003@...> writes:
> > Hi Rick,
> >
> > Thanks for coming back to me on 20m. At the risk of sounding
like a
> >
> > jerk, I have to ask this question - why do so many South American
> > stations drive the living daylights out of their mic ALC
circuits.
> >
> > Do they actually think that by maxing out their mic gain, they'll
> > put
> > out more power, and get out better? I've been dealing with this
> > problem, ever since I got my General License back in 1986. I
admit,
> >
> > they aren't all like that. I've heard and worked some South
> > American
> > hams that are fantastic operators. But, so many of them operate
> > like
> > CBers using illegal amps.
> >
> > With regards to 40m - I don't know if I'll last until 11pm. I
tell
> >
> > you what - I'll take a nap until 11pm. We can try to hook up on
40
> >
> > then. I'll find an open freq. on 40m,and start calling you.

I'll
> > let you know via a post, what freq. I'm on. Until later.
> >
> > 73,
> > Ellen - AF9J
>

8568. Re: Kenwood Net - change of plans, here we go again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 12:32:13 UTC
From: Ellen R
Topic: 8508 Message: 8568

Oh Bill,

That sounds so....sexy!!! It's like hearing a freebander on the low
end of 10m shouting into his mic. "c'mon DX!!!! LOL LOL :))

73 & very tongue in cheek
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Leahy"
<k0zl.ham@...> wrote:
>
> Norte Americanos do the same thing; I think it's macho to watch my
ALC
> meter slamming the right hand peg. The very idea of the gold plating
> coming off my 8877 grid on voice peaks gives me shivers.
>
> If I crank my max output on the 850 all the way down, I get 4.5
watts
> out and the ALC will stay pegged on the right which is very
> gratifying.
>
> tongue in cheek here of course.
>
> Bill K0ZL
>
> On 8/6/06, Ellen R <ellenjoanne2003@...> wrote:
> >
> >
> >
> >
> >
> >
> >
> >
> > Hi Rick,
> >
> > Thanks for coming back to me on 20m. At the risk of sounding like
a
> > jerk, I have to ask this question - why do so many South American
> > stations drive the living daylights out of their mic ALC circuits.
> > Do they actually think that by maxing out their mic gain, they'll
put
> > out more power, and get out better? I've been dealing with this
> > problem, ever since I got my General License back in 1986. I
admit,
> > they aren't all like that. I've heard and worked some South
American

> > hams that are fantastic operators. But, so many of them operate
like
> > CBers using illegal amps.
> >
> > With regards to 40m - I don't know if I'll last until 11pm. I tell
> > you what - I'll take a nap until 11pm. We can try to hook up on 40
> > then. I'll find an open freq. on 40m,and start calling you. I'll
> > let you know via a post, what freq. I'm on. Until later.
> >
> > 73,
> > Ellen - AF9J
> >
>

8569. Re: Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 13:14:18 UTC
From: Ellen R
Topic: 8508 Message: 8569

Hi Pete,

I won't lie, I had many of the same misgivings myself. I live in an apartment, so I don't run a KW into a 5el yagi at 100 feet, on 20m. Therefore, I'm not the ideal net control station, especially for a worldwide net. I gathered data on nets that are held on 20m, and chose a freq. that wouldn't conflict with other nets. Unfortunately, it's impossible to control/account for random QSOs or skeds that may pop up. Still, I decided to make a go of it.

I do agree that more listening needs to be done to decide what freq. would be best for a 20m net. As it is, due to propogation characteristics on 20m, there would need to be a lot of relays (and therefore relay stations), in order to hear everybody.

Maybe the way to go about this is like groups such as SKCC and HFpack do: Post/announce that you're looking for either QSOs, or to hold roundtables with other group members. The postings could be done in advance, or during the times you wish to operate. This seems to work well for both groups. With that in mind, I will make an effort to do just that over the next few days. Once again, I will be helping out at the animal shelter tonight, and probably won't be home until after 0100z. If I'm not too tired (I've been up since 4:30 this morning), I will try to initiate another 40m roundtable. I'll let you all know later on.

Well, back to work for me.

73,
Ellen ☐ AF9J

<SNIP!>

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> I figured this all was going to happen; hence my original statement about
> the net several days ago. My personal opinion would be you'll never
> please everyone time wise on the reflector with over a 1K worldwide
> members. Plus, frequencies being occupied where you want to have the net,
> adjacent QRM, changing band conditions, etc. all play into a very
> frustrating experience for all who want to participate. I would suggest
> identifying a range of frequencies, say on 20, 40, or 75 meters where

> typically "vintage" Kenwood rig owners could hang out. Members could
> frequent those frequency ranges at times based on their area of the
> world. Members could call CQ vintage Kenwood user's group or
something
> like that. Maybe after several weeks of this type of semi random
> activity, and members reporting back to the reflector on their
contact
> successes, a clearer picture of times, frequencies, band conditions,
> etc., i.e. when most people seem to be collecting around a
particular
> time/frequency etc.
>
> If we had audio on this reflector, we could have vintage Kenwood
chat
> room and it could be open 24/7. Wouldn't even have to call CQ. Just
bang
> on the microphone and yell YO.
>
> Pete, wa2cwa

8570. Re: TS520S pa bandswitch required..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 13:53:28 UTC
From: vk3bfa
Topic: 8566 Message: 8570

--- In TS-520_820_530_830@yahoogroups.com, "vk3bfa" <woofferau@...> wrote:

Woo woo woo - happy is I...!!! - after much tedious mechanical effort, got the bandswitch out. IT LIVES!!! - and, on close physical examination, its an obvious fault for a 30yo radio.

The wiper contact for the switch section that does the switching to the taps on the coil - VERY close to frame, plus whoever had assembled it in the first place was a bit heavy handed with the solder. Over the years, accumulated dust/fluff and spray on oily contact cleaner had provided a nice HV RF path to earth - hence the fireworks. Be warned people - be careful how you clean in there. Accessibility is SHOCKING - the only way to really clean this switch is to pull it out...and I will clean it up and re-install tomorrow as its 23.50 local here now....

If enough interest, will take photos and post them in the files section on how to do this....its not all that difficult, just takes time...wondering how many radios have gone to Radio Heaven for this fault.....

73 de VK3BFA Andrew.

8571. Re: [TS-520_820_530_830] Re: TS520S pa bandswitch required..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 14:15:04 UTC
From: Max Harelik
Topic: 8566 Message: 8571

" If enough interest, will take photos and post them in the files
section on how to do this" <snip>

Pictures (and procedures) would be great, Andrew. Roadmaps are wonderful
things.
Thanks for your diligence, and ultimate success.

73,
Max, K5OVW

8572. Re: [TS-520_820_530_830]Shottky barrier diodes - 1N5711 Spec Sheet

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 16:13:28 UTC
From: Rick May
Topic: 8513 Message: 8572

Hi Pete,

I was referring to the spectral display of my audio white noise before and after I swapped the diodes out. I use a program called HamAlyzer which produces a spectrum analyzer using your PC and sound card.
I just fed receiver audio into the PC. The receiver was terminated with a dummy load and the NB was off. I had my Fluke across the speaker terminals to get as close to the same level of audio in each check. I am sending you a jpeg of the display. It will be filtered out of the Group but you should receive it. The blue trace is the original audio and the red is after replacing the product detector. Interesting mod. The transmit audio is similarly improved with replacing the noisy 1N60 balanced modulator diodes with the Schottky. I had good results using the 1N5711

73' Rick KC0HH
Lamar, Colorado

Peter A Markavage <pmarkavage@...> wrote: It's not clear to me how adding shottky diodes to the balanced modulator
or product detector would give this result: "results in much lower noise
spikes". I can only assume you saw this result on the receive side. If
so, what was your noise blanker doing during this time (in/out)?

Pete, wa2cwa

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8573. Re: [TS-520_820_530_830]Shottky barrier diodes - 1N5711 Spec Sheet

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 17:42:01 UTC
From: ka3dpw
Topic: 8513 Message: 8573

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...>
wrote:
>What radio is this being tested on?
> Hi Pete,
>
> I was referring to the spectral display of my audio white
noise before and after I swapped the diodes out. I use a program
called HamAlyzer which produces a spectrum analyzer using your PC
and sound card.
> I just fed receiver audio into the PC. The receiver was
terminated with a dummy load and the NB was off. I had my Fluke
across the speaker terminals to get as close to the same level of
audio in each check. I am sending you a jpeg of the display. It will
be filtered out of the Group but you should receive it. The blue
trace is the original audio and the red is after replacing the
product detector. Interesting mod. The transmit audio is similarly
improved with replacing the noisy 1N60 balanced modulator diodes
with the Schottky. I had good results using the 1N5711
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
>
> Peter A Markavage <pmarkavage@...>
wrote: It's not clear to me how
adding shottky diodes to the balanced modulator
> or product detector would give this result: "results in much
lower noise
> spikes". I can only assume you saw this result on the receive
side. If
> so, what was your noise blanker doing during this time (in/out)?
>
> Pete, wa2cwa
>
>
>
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.

>
> [Non-text portions of this message have been removed]
>

8574. Re: [TS-520_820_530_830]Shottky barrier diodes - 1N5711 Spec Sheet

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 18:26:15 UTC
From: Rick May
Topic: 8513 Message: 8574

TS-830S ....I swapped out the stock 1N60 diodes with 1N5711 Shottky diodes in both the product detector and balanced modulator.

73' Rick KC0HH
Lamar, Colorado

ka3dpw <ka3dpw@...> wrote:

>What radio is this being tested on?

'-.-'---

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8575. TS820 Series RF section on e-bay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 18:33:37 UTC
From: Ellen R
Topic: 8575 Message: 8575

I was just browsing e-bay during a break at work, when I discovered this for sale:

http://cgi.ebay.com/Kenwood-TS-820-TS820S-RF-Section-w-coils-and-caps_W0QQitemZ330015842871QQihZ014QQcategoryZ40067QQrdZ1QQcmdZViewItem

It's an RF section for the TS-820 series. If anybody needs to replace theirs, they might want to take a look at it.

73,
Ellen - AF9J

8576. RE: [TS-520_820_530_830] Re: Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 19:31:08 UTC
From: Hauser, Ron M.
Topic: 8508 Message: 8576

Ellen kudos for your efforts to pull together a net. I tried to listen in also, though I was just a little too late on 20m (and apparently too early on 40m). There is clearly interest, and I encourage you to try again. Don't worry about conflicting frequencies or schedules, just post here when you are going to try and who ever is available can get on the air. I think an ongoing effort approximately weekly, would tend to build up a following over several weeks.

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Monday, August 07, 2006 8:14 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Kenwood Net

Hi Pete,

I won't lie, I had many of the same misgivings myself. I live in an apartment, so I don't run a KW into a 5el yagi at 100 feet, on 20m. Therefore, I'm not the ideal net control station, especially for a worldwide net. I gathered data on nets that are held on 20m, and chose a freq. that wouldn't conflict with other nets. Unfortunately, it's impossible to control/account for random QSOs or skeds that may pop up. Still, I decided to make a go of it.

I do agree that more listening needs to be done to decide what freq. would be best for a 20m net. As it is, due to propogation characteristics on 20m, there would need to be a lot of relays (and therefore relay stations), in order to hear everybody.

Maybe the way to go about this is like groups such as SKCC and HFpack do: Post/announce that you're looking for either QSOs, or to hold roundtables with other group members. The postings could be done in advance, or during the times you wish to operate. This seems to work well for both groups. With that in mind, I will make an effort to do just that over the next few days. Once again, I will be helping out at the animal shelter tonight, and probably won't be home until after 0100z. If I'm not too tired (I've been up since 4:30 this morning), I will try to initiate another 40m roundtable. I'll let you all know later on.

Well, back to work for me.

73,
Ellen - AF9J

<SNIP!>

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> I figured this all was going to happen; hence my original statement
about
> the net several days ago. My personal opinion would be you'll never
> please everyone time wise on the reflector with over a 1K worldwide
> members. Plus, frequencies being occupied where you want to have
the net,
> adjacent QRM, changing band conditions, etc. all play into a very
> frustrating experience for all who want to participate. I would
suggest
> identifying a range of frequencies, say on 20, 40, or 75 meters
where
> typically "vintage" Kenwood rig owners could hang out. Members could
> frequent those frequency ranges at times based on their area of the
> world. Members could call CQ vintage Kenwood user's group or
something
> like that. Maybe after several weeks of this type of semi random
> activity, and members reporting back to the reflector on their
contact
> successes, a clearer picture of times, frequencies, band conditions,
> etc., i.e. when most people seem to be collecting around a
particular
> time/frequency etc.
>
> If we had audio on this reflector, we could have vintage Kenwood
chat
> room and it could be open 24/7. Wouldn't even have to call CQ. Just
bang
> on the microphone and yell YO.
>
> Pete, wa2cwa

Yahoo! Groups Links

8577. CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:07:28 UTC
From: Chuck Poindexter
Topic: 8577 Message: 8577

Hello everybody,

I am currently using the N3FJP logging software with my TS-520/ straight key rig. I would like to use the PC to call CQ for me now and then so it does not get so monotonous. The schematic I used for this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from the N3FJP page, which connects the parallel port to the key jack in the back of the radio. The problem is that when the plug is inserted into the jack, it acts as if the key is being held down and goes to transmit (when VOX is on).

This also exhibits the same behavior with a Ramsey CW keyer kit that I put together, connecting the output of the keyer circuit to the key jack in the back of the radio, as well. As long as it is plugged in, it thinks a key is being held down, tries to transmit with VOX on. Otherwise, it just emits the tone.

Any tips on an interface like this? Has anyone here tried something similar? Am I using the correct circuit? Help?

Thanks and 73s
Chuck
KE5HGQ

8578. Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:41:03 UTC
From: Gordon
Topic: 8577 Message: 8578

Chuck,
I may be wrong but I think the circuit is shown as being wired for
a solid state rig. I think you need to wire the Optional terminal to
the center connector of your Key plug and disconnect the one you have
there now, basically bypassing the 2N222A transistor. The Old Kenwoods
with Tubes are Grid Block keyed. Not positive (Direct) keyed as the
newer solid state stuff is. I could be wrong though on that particular
circuit.
I know if it is wired for active low and you need active high, it will
key the rig as soon as you plug in the Key Jack.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Poindexter"
<chuckpo@...> wrote:
>
> Hello everybody,
>
> I am currently using the N3FJP logging software with my TS-520/
> straight key rig. I would like to use the PC to call CQ for me now
> and then so it does not get so monotonous. The schematic I used for
> this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from
> the N3FJP page, which connects the parallel port to the key jack in
> the back of the radio. The problem is that when the plug is inserted
> into the jack, it acts as if the key is being held down and goes to
> transmit (when VOX is on).
>
> This also exhibits the same behavior with a Ramsey CW keyer kit that
> I put together, connecting the output of the keyer circuit to the key
> jack in the back of the radio, as well. As long as it is plugged in,
> it thinks a key is being held down, tries to transmit with VOX on.
> Otherwise, it just emits the tone.
>
> Any tips on an interface like this? Has anyone here tried something
> similar? Am I using the correct circuit? Help?
>
> Thanks and 73s
> Chuck
> KE5HGQ
>

8579. Re: [TS-520_820_530_830] CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:50:46 UTC
From: Dimiter Kroumov
Topic: 8577 Message: 8579

Hi Chuck

You must put a gretz between the computer interfacing cirquit (after the transistor/optron) and the transceiver.
I am using such a keying cable for a years with my TS830S.

regrads
73! Mitko
AB2VQ (LZ3NY)

Chuck Poindexter writes:

> Hello everybody,
>
> I am currently using the N3FJP logging software with my TS-520/
> straight key rig. I would like to use the PC to call CQ for me now
> and then so it does not get so monotonous. The schematic I used for
> this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from
> the N3FJP page, which connects the parallel port to the key jack in
> the back of the radio. The problem is that when the plug is inserted
> into the jack, it acts as if the key is being held down and goes to
> transmit (when VOX is on).
>
> This also exhibits the same behavior with a Ramsey CW keyer kit that
> I put together, connecting the output of the keyer circuit to the key
> jack in the back of the radio, as well. As long as it is plugged in,
> it thinks a key is being held down, tries to transmit with VOX on.
> Otherwise, it just emits the tone.
>
> Any tips on an interface like this? Has anyone here tried something
> similar? Am I using the correct circuit? Help?
>
> Thanks and 73s
> Chuck
> KE5HGQ
>
>
>
>

[Non-text portions of this message have been removed]

8580. Re: [TS-520_820_530_830] CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:54:50 UTC
From: Rick May
Topic: 8577 Message: 8580

HI Chuck,

The newer solid state radios use direct keying for CW transmission. Older radios with tubes such as the hybrid Kenwoods use grid block keying. I don't remember the exact voltage but the Kenwood keying potential is at something like -65vdc. You could replace the little 2N2222A transistor with a larger NPN transistor that will handle 100vdc Older keyers such as those made by MFJ had two different outputs on the rear. One for direct keying and one for grid block.
Your keyer schematic shows 5vdc available on transmit. Radio Shack sells a 5vdc reed relay. Wire the collector of the 2n2222A to ground. Hook the 5vdc and the emitter of the 2n2222 to either side of the coil of the relay. Hook the common contact of the relay to the shield and normally open contact to the tip of your 1/4" plug The relay will key your radio for CW.... Works fine for speeds up to 30 wpm.

73' Rick KC0HH
Lamar, Colorado

Chuck Poindexter <chuckpo@...> wrote: Hello everybody,

I am currently using the N3FJP logging software with my TS-520/
straight key rig. I would like to use the PC to call CQ for me now
and then so it does not get so monotonous. The schematic I used for
this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from
the N3FJP page, which connects the parallel port to the key jack in
the back of the radio. The problem is that when the plug is inserted
into the jack, it acts as if the key is being held down and goes to
transmit (when VOX is on).

This also exhibits the same behavior with a Ramsey CW keyer kit that
I put together, connecting the output of the keyer circuit to the key
jack in the back of the radio, as well. As long as it is plugged in,
it thinks a key is being held down, tries to transmit with VOX on.
Otherwise, it just emits the tone.

Any tips on an interface like this? Has anyone here tried something
similar? Am I using the correct circuit? Help?

Thanks and 73s
Chuck
KE5HGQ

Groups are talking. We´re listening. Check out the handy changes to Yahoo! Groups.

[Non-text portions of this message have been removed]

8581. Re: Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:57:03 UTC
From: Ellen R
Topic: 8508 Message: 8581

Hi Ron,

Thanks for the encouragement. :) As I said to Walt, these rigs are made for using, not just looking at/admiring. I'm hoping to try an informal roundtable/net later on tonight, if I don't get home too late from the animal shelter I volounteer at.

I'll post on the group if it's a GO, and if so, what freq. I'll be on.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M." <eichmann@...> wrote:
>
> Ellen kudos for your efforts to pull together a net. I tried to listen
> in also, though I was just a little too late on 20m (and apparently too
> early on 40m). There is clearly interest, and I encourage you to try
> again. Don't worry about conflicting frequencies or schedules, just
> post here when you are going to try and who ever is available can get on
> the air. I think an ongoing effort approximately weekly, would tend to
> build up a following over several weeks.
>
> Thanks!
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Monday, August 07, 2006 8:14 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Kenwood Net
>
> Hi Pete,
>
> I won't lie, I had many of the same misgivings myself. I live in an
> apartment, so I don't run a KW into a 5el yagi at 100 feet, on 20m.
> Therefore, I'm not the ideal net control station, especially for a

> worldwide net. I gathered data on nets that are held on 20m, and
> chose a freq. that wouldn't conflict with other nets.
Unfortunately,
> it's impossible to control/account for random QSOs or skeds that
may
> pop up. Still, I decided to make a go of it.
>
> I do agree that more listening needs to be done to decide what
freq.
> would be best for a 20m net. As it is, due to propogation
> characteristics on 20m, there would need to be a lot of relays (and
> therefore relay stations), in order to hear everybody.
>
> Maybe the way to go about this is like groups such as SKCC and
HFpack
> do: Post/announce that you're looking for either QSOs, or to hold
> roundtables with other group members. The postings could be done
in
> advance, or during the times you wish to operate. This seems to
work
> well for both groups. With that in mind, I will make an effort to
do
> just that over the next few days. Once again, I will be helping
out
> at the animal shelter tonight, and probably won't be home until
after
> 0100z. If I'm not too tired (I've been up since 4:30 this
morning),
> I will try to initiate another 40m roundtable. I'll let you all
know
> later on.
>
> Well, back to work for me.
>
> 73,
> Ellen - AF9J
>
>
> <SNIP!>
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > I figured this all was going to happen; hence my original
statement
> about
> > the net several days ago. My personal opinion would be you'll
never
> > please everyone time wise on the reflector with over a 1K
worldwide

> > members. Plus, frequencies being occupied where you want to have
> the net,
> > adjacent QRM, changing band conditions, etc. all play into a very
> > frustrating experience for all who want to participate. I would
> suggest
> > identifying a range of frequencies, say on 20, 40, or 75 meters
> where
> > typically "vintage" Kenwood rig owners could hang out. Members
could
> > frequent those frequency ranges at times based on their area of
the
> > world. Members could call CQ vintage Kenwood user's group or
> something
> > like that. Maybe after several weeks of this type of semi random
> > activity, and members reporting back to the reflector on their
> contact
> > successes, a clearer picture of times, frequencies, band
conditions,
> > etc., i.e. when most people seem to be collecting around a
> particular
> > time/frequency etc.
> >
> > If we had audio on this reflector, we could have vintage Kenwood
> chat
> > room and it could be open 24/7. Wouldn't even have to call CQ.
Just
> bang
> > on the microphone and yell YO.
> >
> > Pete, wa2cwa
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

8582. Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:57:10 UTC
From: Gordon
Topic: 8577 Message: 8582

Chuck, check the changes I made to the circuit in this picture. It
should fix your problem
http://www.n6wk.com/kenwood/ParallelSchematic%20-1.jpg

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Poindexter"
<chuckpo@...> wrote:
>
> Hello everybody,
>
> I am currently using the N3FJP logging software with my TS-520/
> straight key rig. I would like to use the PC to call CQ for me now
> and then so it does not get so monotonous. The schematic I used for
> this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from
> the N3FJP page, which connects the parallel port to the key jack in
> the back of the radio. The problem is that when the plug is inserted
> into the jack, it acts as if the key is being held down and goes to
> transmit (when VOX is on).
>
> This also exhibits the same behavior with a Ramsey CW keyer kit that
> I put together, connecting the output of the keyer circuit to the key
> jack in the back of the radio, as well. As long as it is plugged in,
> it thinks a key is being held down, tries to transmit with VOX on.
> Otherwise, it just emits the tone.
>
> Any tips on an interface like this? Has anyone here tried something
> similar? Am I using the correct circuit? Help?
>
> Thanks and 73s
> Chuck
> KE5HGQ
>

8583. Re: [TS-520_820_530_830] Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 21:15:39 UTC
From: Rick May
Topic: 8577 Message: 8583

Hi Gordon,

Yep, that would work except the 2N2222A is only rated at 40vdc max. A little light duty for the Kenwood keying potential . If you substituted a MPSA42 (200vdc NPN) transistor, you would never have to worry about it.

73' Rick KC0HH
Lamar, Colorado

Gordon <n6wk@...> wrote: Chuck, check the changes I made to the circuit in this picture. It should fix your problem
http://www.n6wk.com/kenwood/ParallelSchematic%20-1.jpg

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Chuck Poindexter"
<chuckpo@...> wrote:
>
> Hello everybody,
>
> I am currently using the N3FJP logging software with my TS-520/
> straight key rig. I would like to use the PC to call CQ for me now
> and then so it does not get so monotonous. The schematic I used for
> this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from
> the N3FJP page, which connects the parallel port to the key jack in
> the back of the radio. The problem is that when the plug is inserted
> into the jack, it acts as if the key is being held down and goes to
> transmit (when VOX is on).
>
> This also exhibits the same behavior with a Ramsey CW keyer kit that
> I put together, connecting the output of the keyer circuit to the key
> jack in the back of the radio, as well. As long as it is plugged in,
> it thinks a key is being held down, tries to transmit with VOX on.
> Otherwise, it just emits the tone.
>
> Any tips on an interface like this? Has anyone here tried something
> similar? Am I using the correct circuit? Help?
>
> Thanks and 73s
> Chuck
> KE5HGQ
>

73' Rick KC0HH
Lamar, Colorado

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8584. Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 21:49:05 UTC
From: Gordon
Topic: 8577 Message: 8584

Hi Rick,
But isn't the way I changed the circuit going to basically
eliminate the 2N2222A completely? All the switching should be done by
the 2N3906
I'm not sure what the rating on the 2N3906 is though.
Need to look that up. :-)

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> Yep, that would work except the 2N2222A is only rated at 40vdc
max. A little light duty for the Kenwood keying potential . If you
substituted a MPSA42 (200vdc NPN) transistor, you would never have to
worry about it.
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Gordon <n6wk@...> wrote: Chuck,
check the changes I made to the circuit in this picture. It
> should fix your problem
> http://www.n6wk.com/kenwood/ParallelSchematic%20-1.jpg
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Chuck Poindexter"
> <chuckpo@> wrote:
> >
> > Hello everybody,
> >
> > I am currently using the N3FJP logging software with my TS-520/
> > straight key rig. I would like to use the PC to call CQ for me now
> > and then so it does not get so monotonous. The schematic I used for
> > this interface is http://www.n3fjp.com/ParallelSchematic.jpg - from
> > the N3FJP page, which connects the parallel port to the key jack in
> > the back of the radio. The problem is that when the plug is
inserted
> > into the jack, it acts as if the key is being held down and goes to

> > transmit (when VOX is on).
> >
> > This also exhibits the same behavior with a Ramsey CW keyer kit that
> > I put together, connecting the output of the keyer circuit to the
key
> > jack in the back of the radio, as well. As long as it is plugged
in,
> > it thinks a key is being held down, tries to transmit with VOX on.
> > Otherwise, it just emits the tone.
> >
> > Any tips on an interface like this? Has anyone here tried something
> > similar? Am I using the correct circuit? Help?
> >
> > Thanks and 73s
> > Chuck
> > KE5HGQ
> >
>
>
>
>
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>

8585. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 22:54:53 UTC
From: Walt Breining
Topic: 8519 Message: 8585

It is possible that if his SWR was higher on 75 that under some conditions the reverse power could add to the forward power causing a high reading.
Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 06, 2006 5:39 PM
Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

I'm pretty sure he was referring to key down CW, But hey, I could be wrong !
He did say it puts out 100 watts on ALL the other bands however !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Ah yes! Those famous "Bird watts".
> And/or, maybe he is diddling with a peak-reading Bird.
>
> Pete, wa2cwa
>
> On Sun, 06 Aug 2006 20:15:18 -0000 "Gordon" <n6wk@...> writes:
> > I am having a disagreement with a fellow. He is telling me that he
> > has
> > owned many TS-820's that all put OUT over 150 watts on 75 meters
> > into
> > his dummy load. (Claims it is a Bird WattMeter)
> > Now, I did the math and 750 Volts at (a high) 250 ma of plate
> > current
> > equals 187.5 watts of Input. Now, considering these rigs run about
> > 65%
> > efficency, that comes out to 121.875 watts Out or even @ 70% only
> > comes out to 131.25 watts.
> > Am I missing something here, or is this guy blowing smoke??
> > Perhaps I'm the one that is Wrong ??? Don't think so, But I have
> > been
> > wrong before..
> > 73,
> >
> > Gordon
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/06

[Non-text portions of this message have been removed]

8586. Re: [TS-520_820_530_830] anybody wanna roundtable?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 21:26:00 UTC
From: John Harp
Topic: 8542 Message: 8586

Ellen, I can meet you there on 7242. I have 100 watts and can reach 8 and 9 land pretty much continuosly. In fact, most anything east of mississippi river. Even during the day. I got a full size ground mounted quarter-wave with 56 radials for the ground plane. It's fed by 1/2inch cellwave 115 feet long to a TS-830S. It's a good 40 dx. My linear is in the shop for repair at the moment. John Harp - KA3DPW General Class Liscencee-Parkesburg PA. Bac2U
Ellen R <ellenjoanne2003@...> wrote:
Hi Everybody,

I'm done with everything for the night. So I'm going to go ahead with
my attempt at a 40m roundtable in place of the net that didn't get goin
earlier today. I am on 7242 KHz. C'mon, let's see if we can get a
Classic Kenwoods roundtable going on 40m. I'm calling now.

73,
Ellen - AF9J

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8587. Re: Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 20:59:43 UTC
From: John Harp
Topic: 8508 Message: 8587

Ellen,
I like what I've heard so far and responses of this group.
I do have a few questions being a new member and not familiar wioth
the group yet.
1)I'd like to know how many of these members are we considering for
the size of the net?
2)Has any contact been made with other PR sources and perhaps
conferred with other net control operators (on the side) for
suggestions?
3)Has possible consideration been given to localized net with
giving invitation to checking into other area nets when feasible.
4)A reflector idea on VOIP to link local is another possibility.

We have today some tools for communications that we didn't have back
when these radios were new.The possibility tying these other modes
in may help us reach our goal. One step further, It may set a good
example in our listening communities minds,Be it other Amateurs or
even the FCC itself.

So I'd like to give this brief persective to the group to discuss.
There will be other ides I'm sure. But one thing is for certain, we
are communicators first and technicians second. I believe there is a
good team here pulling together a good concept. Perhaps a little
more definition and refinement is what we need. Thank You.

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Pete,
>
> I won't lie, I had many of the same misgivings myself. I live in
an
> apartment, so I don't run a KW into a 5el yagi at 100 feet, on
20m.
> Therefore, I'm not the ideal net control station, especially for a
> worldwide net. I gathered data on nets that are held on 20m, and
> chose a freq. that wouldn't conflict with other nets.
Unfortunately,
> it's impossible to control/account for random QSOs or skeds that
may
> pop up. Still, I decided to make a go of it.
>
> I do agree that more listening needs to be done to decide what
freq.
> would be best for a 20m net. As it is, due to propogation

> characteristics on 20m, there would need to be a lot of relays
(and
> therefore relay stations), in order to hear everybody.
>
> Maybe the way to go about this is like groups such as SKCC and
HFpack
> do: Post/announce that you're looking for either QSOs, or to hold
> roundtables with other group members. The postings could be done
in
> advance, or during the times you wish to operate. This seems to
work
> well for both groups. With that in mind, I will make an effort to
do
> just that over the next few days. Once again, I will be helping
out
> at the animal shelter tonight, and probably won't be home until
after
> 0100z. If I'm not too tired (I've been up since 4:30 this
morning),
> I will try to initiate another 40m roundtable. I'll let you all
know
> later on.
>
> Well, back to work for me.
>
> 73,
> Ellen ☐ AF9J
>
>
> <SNIP!>
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > I figured this all was going to happen; hence my original
statement
> about
> > the net several days ago. My personal opinion would be you'll
never
> > please everyone time wise on the reflector with over a 1K
worldwide
> > members. Plus, frequencies being occupied where you want to have
> the net,
> > adjacent QRM, changing band conditions, etc. all play into a very
> > frustrating experience for all who want to participate. I would
> suggest
> > identifying a range of frequencies, say on 20, 40, or 75 meters
> where
> > typically "vintage" Kenwood rig owners could hang out. Members

could
> > frequent those frequency ranges at times based on their area of
the
> > world. Members could call CQ vintage Kenwood user's group or
> something
> > like that. Maybe after several weeks of this type of semi random
> > activity, and members reporting back to the reflector on their
> contact
> > successes, a clearer picture of times, frequencies, band
conditions,
> > etc., i.e. when most people seem to be collecting around a
> particular
> > time/frequency etc.
> >
> > If we had audio on this reflector, we could have vintage Kenwood
> chat
> > room and it could be open 24/7. Wouldn't even have to call CQ.
Just
> bang
> > on the microphone and yell YO.
> >
> > Pete, wa2cwa
>

8588. Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 22:33:17 UTC
From: Gordon
Topic: 8519 Message: 8588

Hi Walt,
I thought about that, and I think that just might be the case. I
gave up discussing it with him as he was starting to get a bit testy
with me for questioning his assertion that all 820's put out 150 watts
on 75 meters.. (It was an Ebay Ad that I was discussing with the
seller) !
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=320013253830&sspagename=ADME:B:AAQ:US:1

73,
Gorodn

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...>
wrote:
>
> It is possible that if his SWR was higher on 75 that under some
conditions the reverse power could add to the forward power causing a
high reading.
> Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, August 06, 2006 5:39 PM
> Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?
>
>
> I'm pretty sure he was referring to key down CW, But hey, I could be
> wrong !
> He did say it puts out 100 watts on ALL the other bands however !
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > Ah yes! Those famous "Bird watts".
> > And/or, maybe he is diddling with a peak-reading Bird.
> >
> > Pete, wa2cwa
> >
> > On Sun, 06 Aug 2006 20:15:18 -0000 "Gordon" <n6wk@> writes:
> > > I am having a disagreement with a fellow. He is telling me
that he
> > > has
> > > owned many TS-820's that all put OUT over 150 watts on 75 meters

> > > into
> > > his dummy load. (Claims it is a Bird WattMeter)
> > > Now, I did the math and 750 Volts at (a high) 250 ma of plate
> > > current
> > > equals 187.5 watts of Input. Now, considering these rigs run
about
> > > 65%
> > > efficency, that comes out to 121.875 watts Out or even @ 70% only
> > > comes out to 131.25 watts.
> > > Am I missing something here, or is this guy blowing smoke??
> > > Perhaps I'm the one that is Wrong ??? Don't think so, But I have
> > > been
> > > wrong before..
> > > 73,
> > >
> > > Gordon
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/06
>
>
> [Non-text portions of this message have been removed]
>

8589. Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 22:45:45 UTC
From: Gordon
Topic: 8577 Message: 8589

Rick,
Looks like the 2N3906 is only good for about 40 Volts also.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Rick,
> But isn't the way I changed the circuit going to basically
> eliminate the 2N2222A completely? All the switching should be done by
> the 2N3906
> I'm not sure what the rating on the 2N3906 is though.
> Need to look that up. :-)
>
> 73,
> Gordon
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Hi Gordon,
> >
> > Yep, that would work except the 2N2222A is only rated at 40vdc
> max. A little light duty for the Kenwood keying potential . If you
> substituted a MPSA42 (200vdc NPN) transistor, you would never have to
> worry about it.
> >
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> >
> > Gordon <n6wk@> wrote: Chuck,
> check the changes I made to the circuit in this picture. It
> > should fix your problem
> > http://www.n6wk.com/kenwood/ParallelSchematic%20-1.jpg
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Chuck Poindexter"
> > <chuckpo@> wrote:
> > >

> > > Hello everybody,
> > >
> > > I am currently using the N3FJP logging software with my TS-520/
> > > straight key rig. I would like to use the PC to call CQ for me
now
> > > and then so it does not get so monotonous. The schematic I
used for
> > > this interface is http://www.n3fjp.com/ParallelSchematic.jpg -
from
> > > the N3FJP page, which connects the parallel port to the key
jack in
> > > the back of the radio. The problem is that when the plug is
> inserted
> > > into the jack, it acts as if the key is being held down and
goes to
> > > transmit (when VOX is on).
> > >
> > > This also exhibits the same behavior with a Ramsey CW keyer kit
that
> > > I put together, connecting the output of the keyer circuit to the
> key
> > > jack in the back of the radio, as well. As long as it is plugged
> in,
> > > it thinks a key is being held down, tries to transmit with VOX
on.
> > > Otherwise, it just emits the tone.
> > >
> > > Any tips on an interface like this? Has anyone here tried
something
> > > similar? Am I using the correct circuit? Help?
> > >
> > > Thanks and 73s
> > > Chuck
> > > KE5HGQ
> > >
> >
> >
> >
> >
> >
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> > ---------------------------------
> > Do you Yahoo!?
> > Everyone is raving about the all-new Yahoo! Mail Beta.
> >
> > [Non-text portions of this message have been removed]
> >

>

8590. Re: [TS-520_820_530_830] Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 23:04:17 UTC
From: Rick May
Topic: 8577 Message: 8590

Hi Gordon,

I don't think the 3906 is heavy enough either. I think the original circuit will work fine if he uses a heavier rated NPN transistor such as the MPSA24. The 3906 will switch it with no problem. The Kenwood's keying potential voltage is obviously too high for the 2222 as the radio goes into transmit as soon as he plugs the 1/4" plug in. Like I said, I think it is somewhere around -65vdc.

73; Rick KC0HH
Lamar, Colorado

Gordon <n6wk@...> wrote: Hi Rick,
But isn't the way I changed the circuit going to basically
eliminate the 2N2222A completely? All the switching should be done by
the 2N3906
I'm not sure what the rating on the 2N3906 is though.
Need to look that up. :-)

73,
Gordon

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8591. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 23:15:03 UTC
From: Rick May
Topic: 8519 Message: 8591

Hi Walt,

Doesn't INRAD or someone have a mod for the Kenwoods that increases the screen voltage? I think they claim a 25% power output increase.

Rick KC0HH
Lamar, Colorado

Walt Breining <n9wb@...> wrote: It is possible that if his SWR was higher on 75 that under some conditions the reverse power could add to the forward power causing a high reading.
Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 06, 2006 5:39 PM
Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

I'm pretty sure he was referring to key down CW, But hey, I could be
wrong !
He did say it puts out 100 watts on ALL the other bands however !

Gordon

73' Rick KC0HH
Lamar, Colorado

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8592. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 23:25:36 UTC
From: Peter A Markavage
Topic: 8519 Message: 8592

Here's the seller's storefront web site:
http://www.marketworks.com/StoreFrontProfiles/default.aspx?sfid=86409

Use to be very active on many of the HF trader nets.

Pete, wa2cwa

On Mon, 07 Aug 2006 22:33:17 -0000 "Gordon" <n6wk@...> writes:
> Hi Walt,
> I thought about that, and I think that just might be the case. I
> gave up discussing it with him as he was starting to get a bit
> testy
> with me for questioning his assertion that all 820's put out 150
> watts
> on 75 meters.. (It was an Ebay Ad that I was discussing with the
> seller) !
>
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=320013253830&sspagenam
e=ADME:B:AAQ:US:1
>
> 73,
> Gorodn

8593. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 23:29:28 UTC
From: Peter A Markavage
Topic: 8519 Message: 8593

They no longer supply the QRO Kits but will provide you with instructions
and parts list.
http://www.qth.com/inrad/

A better name for this kit would be "Shorten the life of your TS-###"

Pete, wa2cwa

On Mon, 7 Aug 2006 16:15:03 -0700 (PDT) Rick May <kc0hh@...>
writes:
> Hi Walt,
>
> Doesn't INRAD or someone have a mod for the Kenwoods that
> increases the screen voltage? I think they claim a 25% power output
> increase.
>
> Rick KC0HH
> Lamar, Colorado
>
> Walt Breining <n9wb@...> wrote:
> It is possible that if his SWR was higher on 75 that under some
> conditions the reverse power could add to the forward power causing
> a high reading.
> Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, August 06, 2006 5:39 PM
> Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?
>
> I'm pretty sure he was referring to key down CW, But hey, I could
> be
> wrong !
> He did say it puts out 100 watts on ALL the other bands however
> !
>
> Gordon

8594. Re: [TS-520_820_530_830] Re: CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-07 23:57:55 UTC
From: Tibor (Tibi) Zentai
Topic: 8577 Message: 8594

Hello,

I do not use direct semiconductor keying for the evil never sleeps. Rig is 530 but it is indifferent. The interface is a transistor with a resistor and a diode. The collector and ground is connected to my traditional el-key. There is a relay in that and the interface agitates the relay. So the trx keying system is quite independent (isolated) from both the computer and el-key and it is a combined (computer/hand operated) keying system. Vox on and CW works, no need for PTT.

On the other hand the layer cap of semiconductor helps to cause harmonics problems in the trx in case of direct keying so you'd better do to avoid it.

The best solution is to get a DIL IC reed relay for a few bucks (5V, 12V dc - as you like - and 1kV isolation capability) so to set up an independent keying system. Computer, trx and anything else have to be on common ground.

Should you do that you have protected the computer, the rig and cw works smooth. I have now more than 17,000 cw QSO with the 530 in the last 2 and a half years. I even take part in contests actively using 22-28 WPM. Could you believe that a 5XX is a good contest radio?

********** REPLY SEPARATOR **********

On 2006.08.07. at 22:45 Gordon wrote:

>Rick,
> Looks like the 2N3906 is only good for about 40 Volts also.
>
>Gordon
>
>--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>>
>> Hi Rick,
>> But isn't the way I changed the circuit going to basically
>> eliminate the 2N2222A completely? All the switching should be done by
>> the 2N3906
>> I'm not sure what the rating on the 2N3906 is though.
>> Need to look that up. :-)
>>
>> 73,
>> Gordon
>>
>>
>>
>>

>> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
>> >
>> > Hi Gordon,
>> >
>> > Yep, that would work except the 2N2222A is only rated at 40vdc
>> max. A little light duty for the Kenwood keying potential . If you
>> substituted a MPSA42 (200vdc NPN) transistor, you would never have to
>> worry about it.
>> >
>> >
>> > 73' Rick KC0HH
>> > Lamar, Colorado
>> >
>> >
>> > Gordon <n6wk@> wrote: Chuck,
>> check the changes I made to the circuit in this picture. It
>> > should fix your problem
>> > http://www.n6wk.com/kenwood/ParallelSchematic%20-1.jpg
>> >
>> > 73,
>> > Gordon
>> >
>> > --- In TS-520_820_530_830@yahoogroups.com, "Chuck Poindexter"
>> > <chuckpo@> wrote:
>> > >
>> > > Hello everybody,
>> > >
>> > > I am currently using the N3FJP logging software with my TS-520/
>> > > straight key rig. I would like to use the PC to call CQ for me
>now
>> > > and then so it does not get so monotonous. The schematic I
>used for
>> > > this interface is http://www.n3fjp.com/ParallelSchematic.jpg -
>from
>> > > the N3FJP page, which connects the parallel port to the key
>jack in
>> > > the back of the radio. The problem is that when the plug is
>> inserted
>> > > into the jack, it acts as if the key is being held down and
>goes to
>> > > transmit (when VOX is on).
>> > >
>> > > This also exhibits the same behavior with a Ramsey CW keyer kit
>that
>> > > I put together, connecting the output of the keyer circuit to the
>> key
>> > > jack in the back of the radio, as well. As long as it is plugged
>> in,
>> > > it thinks a key is being held down, tries to transmit with VOX
>on.

>> > > Otherwise, it just emits the tone.
>> > >
>> > > Any tips on an interface like this? Has anyone here tried
>something
>> > > similar? Am I using the correct circuit? Help?
>> > >
>> > > Thanks and 73s
>> > > Chuck
>> > > KE5HGQ
>> > >
>> >
>> >
>> >
>> >
>> >
>> >
>> > 73' Rick KC0HH
>> > Lamar, Colorado
>> >
>> > ---------------------------------
>> > Do you Yahoo!?
>> > Everyone is raving about the all-new Yahoo! Mail Beta.
>> >
>> > [Non-text portions of this message have been removed]
>> >
>>
>
>
>
>
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

8595. Low receive on 3.5, 7.0, and 10 MHz bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 01:30:05 UTC
From: Ken Gunton
Topic: 8595 Message: 8595

I intermittently have low receive signal on these bands. One symptom is that the Drive control has no apparent effect on receive. Other bands seem just fine.

Any ideas on what might cause this? Transmit output seems okay.

By the way, my VFO was jumping around so I took the advice found on this group regarding backing out all the Phillips screws and re-tightening them, and the problem was instantly fixed. Thanks for all the great advice.

Ken W8ASA

8596. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 02:31:03 UTC
From: Max Harelik
Topic: 8519 Message: 8596

You have to double the power for 1 S-unit, right? Why in the world would one want to stress the PA circuit for such minimal effect as a 25% increase would yield? Get a linear if power is that important. These are solid old radios, but they don't take abuse any better than any other machine. There's a reason why so many of them come in with smoked screen bias resistors.

73,
Max, K5OVW

Rick May wrote:

> Hi Walt,
>
> Doesn't INRAD or someone have a mod for the Kenwoods that increases
> the screen voltage? I think they claim a 25% power output increase.
>
> Rick KC0HH
> Lamar, Colorado
>
> Walt Breining <n9wb@... <mailto:n9wb%40nltc.net>> wrote: It is
> possible that if his SWR was higher on 75 that under some conditions
> the reverse power could add to the forward power causing a high reading.
> Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Sunday, August 06, 2006 5:39 PM
> Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?
>
> I'm pretty sure he was referring to key down CW, But hey, I could be
> wrong !
> He did say it puts out 100 watts on ALL the other bands however !
>
> Gordon
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call
> rates.
>

> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

8597. Need These Parts For MY TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 02:38:34 UTC
From: Ruben
Topic: 8597 Message: 8597

For RF Board X44-1360-00

L36 Part# L40-4711-03 470uh Ferrite Inductor
C74 Part# CK45E2H103P 0.01uf 500Volt Capacitor

I checked East Coast and didn;t find them using the parts numbers.
Equivalents would be fine.

Thanks Ruben KA2HHB

8598. Re: [TS-520_820_530_830] anybody wanna roundtable?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 00:23:51 UTC
From: John Harp
Topic: 8542 Message: 8598

7242 and name your time Ellen.

John Harp <ka3dpw@...> wrote: Ellen, I can meet you there on 7242. I have 100 watts and can reach 8 and 9 land pretty much continuosly. In fact, most anything east of mississippi river. Even during the day. I got a full size ground mounted quarter-wave with 56 radials for the ground plane. It's fed by 1/2inch cellwave 115 feet long to a TS-830S. It's a good 40 dx. My linear is in the shop for repair at the moment. John Harp - KA3DPW General Class Liscencee-Parkesburg PA. Bac2U
Ellen R <ellenjoanne2003@...> wrote:
Hi Everybody,

I'm done with everything for the night. So I'm going to go ahead with
my attempt at a 40m roundtable in place of the net that didn't get goin
earlier today. I am on 7242 KHz. C'mon, let's see if we can get a
Classic Kenwoods roundtable going on 40m. I'm calling now.

73,
Ellen - AF9J

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8599. Re: Kenwood Net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 04:24:40 UTC
From: Ellen R
Topic: 8508 Message: 8599

Hi John,

At the present time, things are being formulated. I'm not sure how formal I want to get with the net. It originally came about, because of a question I posted: There are nets for old Heathkits, Collins, Swan, etc. So I wondered of there was a net for classic Kenwoods, like we all have. Everybody told me that there hadn't been one in a number of years. A suggestion was made that maybe starting a net should be looked into. So I looked into it, and decided it might be nice to have one.

I just don't know how elaborate I want to get about it. It's too late for a roundtable tonight (I just got off the phone with a dear freind, who called me out of the blue), so I think I'll try doing one tomorrow. Maybe by doing a roundtable first, we can get it to grow into a net.

Well, it's late, and I'd better get some sleep. Good night.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "John Harp" <ka3dpw@...>
wrote:
>
> Ellen,
> I like what I've heard so far and responses of this group.
> I do have a few questions being a new member and not familiar wioth
> the group yet.
> 1)I'd like to know how many of these members are we considering
for
> the size of the net?
> 2)Has any contact been made with other PR sources and perhaps
> conferred with other net control operators (on the side) for
> suggestions?
> 3)Has possible consideration been given to localized net with
> giving invitation to checking into other area nets when feasible.
> 4)A reflector idea on VOIP to link local is another possibility.
>
> We have today some tools for communications that we didn't have
back
> when these radios were new.The possibility tying these other modes
> in may help us reach our goal. One step further, It may set a good
> example in our listening communities minds,Be it other Amateurs or
> even the FCC itself.
>

> So I'd like to give this brief persective to the group to discuss.
> There will be other ides I'm sure. But one thing is for certain, we
> are communicators first and technicians second. I believe there is
a
> good team here pulling together a good concept. Perhaps a little
> more definition and refinement is what we need. Thank You.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Pete,
> >
> > I won't lie, I had many of the same misgivings myself. I live in
> an
> > apartment, so I don't run a KW into a 5el yagi at 100 feet, on
> 20m.
> > Therefore, I'm not the ideal net control station, especially for
a
> > worldwide net. I gathered data on nets that are held on 20m,
and
> > chose a freq. that wouldn't conflict with other nets.
> Unfortunately,
> > it's impossible to control/account for random QSOs or skeds that
> may
> > pop up. Still, I decided to make a go of it.
> >
> > I do agree that more listening needs to be done to decide what
> freq.
> > would be best for a 20m net. As it is, due to propogation
> > characteristics on 20m, there would need to be a lot of relays
> (and
> > therefore relay stations), in order to hear everybody.
> >
> > Maybe the way to go about this is like groups such as SKCC and
> HFpack
> > do: Post/announce that you're looking for either QSOs, or to hold
> > roundtables with other group members. The postings could be done
> in
> > advance, or during the times you wish to operate. This seems to
> work
> > well for both groups. With that in mind, I will make an effort to
> do
> > just that over the next few days. Once again, I will be helping
> out
> > at the animal shelter tonight, and probably won't be home until
> after
> > 0100z. If I'm not too tired (I've been up since 4:30 this
> morning),
> > I will try to initiate another 40m roundtable. I'll let you all

> know
> > later on.
> >
> > Well, back to work for me.
> >
> > 73,
> > Ellen ☐ AF9J
> >
> >
> > <SNIP!>
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > <pmarkavage@> wrote:
> > >
> > > I figured this all was going to happen; hence my original
> statement
> > about
> > > the net several days ago. My personal opinion would be you'll
> never
> > > please everyone time wise on the reflector with over a 1K
> worldwide
> > > members. Plus, frequencies being occupied where you want to
have
> > the net,
> > > adjacent QRM, changing band conditions, etc. all play into a
very
> > > frustrating experience for all who want to participate. I would
> > suggest
> > > identifying a range of frequencies, say on 20, 40, or 75 meters
> > where
> > > typically "vintage" Kenwood rig owners could hang out. Members
> could
> > > frequent those frequency ranges at times based on their area of
> the
> > > world. Members could call CQ vintage Kenwood user's group or
> > something
> > > like that. Maybe after several weeks of this type of semi random
> > > activity, and members reporting back to the reflector on their
> > contact
> > > successes, a clearer picture of times, frequencies, band
> conditions,
> > > etc., i.e. when most people seem to be collecting around a
> > particular
> > > time/frequency etc.
> > >
> > > If we had audio on this reflector, we could have vintage
Kenwood
> > chat
> > > room and it could be open 24/7. Wouldn't even have to call CQ.

> Just
> > bang
> > > on the microphone and yell YO.
> > >
> > > Pete, wa2cwa
> >
>

8600. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 09:55:47 UTC
From: Walt Breining
Topic: 8519 Message: 8600

In a previous post I wrote:
One exception is a mod that hot rods the rig by doing things like upping the screen voltage. I do not recommend this mod. It strains the finals, transformer, antenna relay contacts, and other components. It likely increases the IMD. These are olde radios. Why hot rod them for less than 1 dB?

I DO NOT RECCOMEND THIS MOD

Vy 73, Walt N9WB

----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 07, 2006 6:15 PM
Subject: Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Hi Walt,

Doesn't INRAD or someone have a mod for the Kenwoods that increases the screen voltage? I think they claim a 25% power output increase.

Rick KC0HH
Lamar, Colorado

Walt Breining <n9wb@...> wrote: It is possible that if his SWR was higher on 75 that under some conditions the reverse power could add to the forward power causing a high reading.
Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 06, 2006 5:39 PM
Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

I'm pretty sure he was referring to key down CW, But hey, I could be wrong !
He did say it puts out 100 watts on ALL the other bands however !

Gordon

73' Rick KC0HH
Lamar, Colorado

8601. Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 09:57:56 UTC
From: Walt Breining
Topic: 8519 Message: 8601

I AGREE! N9WB
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 07, 2006 6:29 PM
Subject: Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?

They no longer supply the QRO Kits but will provide you with instructions
and parts list.
http://www.qth.com/inrad/

A better name for this kit would be "Shorten the life of your TS-###"

Pete, wa2cwa

8602. Re: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 10:03:55 UTC
From: Walt Breining
Topic: 8595 Message: 8602

What rig. If it is an 830, it probably is in the bandswitch.
Vy 73, Walt N9WB

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 07, 2006 8:30 PM
Subject: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

I intermittently have low receive signal on these bands. One symptom is
that the Drive control has no apparent effect on receive. Other bands
seem just fine.

Any ideas on what might cause this? Transmit output seems okay.

By the way, my VFO was jumping around so I took the advice found on
this group regarding backing out all the Phillips screws and re-
tightening them, and the problem was instantly fixed. Thanks for all
the great advice.

Ken W8ASA

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/06

[Non-text portions of this message have been removed]

8603. Re: [TS-520_820_530_830] CW/PC/Keyer interface...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 03:03:24 UTC
From: Bob Baxter
Topic: 8577 Message: 8603

The Jackson Harbor Keyall keying kit will solve all your problems. It's a simple, easy built kit that will key your rig from a keyer or computer. I use it when I want to key my TS520S with a keyer. See it at http://www.morsex.com/jhp/#nk1

Bob Baxter aa7eq

Chuck Poindexter wrote:
>
> Hello everybody,
>
> I am currently using the N3FJP logging software with my TS-520/
> straight key rig. I would like to use the PC to call CQ for me now
> and then so it does not get so monotonous. The schematic I used for
> this interface is http://www.n3fjp.com/ParallelSchematic.jpg
> <http://www.n3fjp.com/ParallelSchematic.jpg> - from
> the N3FJP page, which connects the parallel port to the key jack in
> the back of the radio. The problem is that when the plug is inserted
> into the jack, it acts as if the key is being held down and goes to
> transmit (when VOX is on).
>
> This also exhibits the same behavior with a Ramsey CW keyer kit that
> I put together, connecting the output of the keyer circuit to the key
> jack in the back of the radio, as well. As long as it is plugged in,
> it thinks a key is being held down, tries to transmit with VOX on.
> Otherwise, it just emits the tone.
>
> Any tips on an interface like this? Has anyone here tried something
> similar? Am I using the correct circuit? Help?
>
> Thanks and 73s
> Chuck
> KE5HGQ
>
>

[Non-text portions of this message have been removed]

8604. Sweep Generator?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 12:19:55 UTC
From: K4MT
Topic: 8604 Message: 8604

Anyone have any suggestions on an affordable sweep generator available on the used market that would be suitable for filter alignments on the Kenwood radios? Any that you have used that worked OK and not $1000.00?

I believe my TS-520 has some receive audio problems that might be bandpass misalignment. This did not go away even after aligning the rest of the radio.

Thanks Gary

8605. RE: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 12:19:20 UTC
From: Ken Gunton
Topic: 8595 Message: 8605

Sorry. TS-830S. This just started happening. Guess I'll
have to go find some De-ox-it and get to work. The
bandswitch itself, including the couplers, look okay
at first glance. No obvious cracks.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Tuesday, August 08, 2006 6:04 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

What rig. If it is an 830, it probably is in the bandswitch.
Vy 73, Walt N9WB

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 07, 2006 8:30 PM
Subject: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

I intermittently have low receive signal on these bands. One symptom is
that the Drive control has no apparent effect on receive. Other bands
seem just fine.

Any ideas on what might cause this? Transmit output seems okay.

By the way, my VFO was jumping around so I took the advice found on
this group regarding backing out all the Phillips screws and re-
tightening them, and the problem was instantly fixed. Thanks for all
the great advice.

Ken W8ASA

--

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/06

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8606. TS-520 Power cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 14:21:53 UTC
From: Bill Grimwood
Topic: 8606 Message: 8606

I have just purchased a TS-520 radio and do not have a power cord. What type of plug fits the rear of the radio? I believe it will work on AC or DC. If I can't find the proper plug which pins are used for AC and/or DC?

I am looking forward to membership in this group.

Bill Grimwood

W4WEG

[Non-text portions of this message have been removed]

8607. Re: 150 Watts Out by an 820 ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 18:53:47 UTC
From: Ellen R
Topic: 8519 Message: 8607

I have to agree with all of you,

For starters 1 S-unit is about 6 dB difference. That's 4 times more power. Gee, can you say (depending upon the Ken wood rig) 400-480 watts out? No can do, without not only changing to a different type of final tube setup, but gutting and replacing the power supply. It's not worth it. So why even bother driving the finals harder just for an extra 25% power? It seems kind of greedy to me - like you're trying to get something for nothing (as in being too cheap to just buy an amp).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining" <n9wb@...> wrote:
>
> In a previous post I wrote:
> One exception is a mod that hot rods the rig by doing things like upping the
> screen voltage. I do not recommend this mod. It strains the finals,
> transformer, antenna relay contacts, and other components. It likely
> increases the IMD. These are olde radios. Why hot rod them for less than 1
> dB?
>
> I DO NOT RECCOMEND THIS MOD
>
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Rick May
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, August 07, 2006 6:15 PM
> Subject: Re: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?
>
>
> Hi Walt,
>
> Doesn't INRAD or someone have a mod for the Kenwoods that increases the
> screen voltage? I think they claim a 25% power output increase.
>
> Rick KC0HH
> Lamar, Colorado

>
> Walt Breining <n9wb@...> wrote: It is possible that if his SWR was
> higher on 75 that under some conditions the reverse power could add
to the
> forward power causing a high reading.
> Walt N9WB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, August 06, 2006 5:39 PM
> Subject: [TS-520_820_530_830] Re: 150 Watts Out by an 820 ?
>
> I'm pretty sure he was referring to key down CW, But hey, I could be
> wrong !
> He did say it puts out 100 watts on ALL the other bands however !
>
> Gordon
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>

8608. Anybody interested in trying a roundtable tonight?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 21:08:45 UTC
From: Ellen R
Topic: 8608 Message: 8608

Hi everybody,

I got home late from the animal shelter last night (as in around 9pm). Nevertheless, I fired up my baby to let it warm up, and let the VFO settle down, to try asked. Then my phone rang, and I ended up being on the phone until after 11pm. So, I never did get on the air.

Tonight is different. I'm done at work as of now, and I should be home before 6pm CDT (I have a few things I have to do before I get home). So I should be able to get on the air tonight.

Is anybody interested in trying to do a roundtable tonight? If condx. are OK, I'll try 20m, but more than likely it'll be on 40m (or if that's long, 75m).

I'll let you know later on, what freq. I'll be on, and when I'm on the air. I hope to hear some of you tonight.

73,
Ellen - AF9J

8609. Re: [TS-520_820_530_830] Anybody interested in trying a roundtable tonight?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 21:33:41 UTC
From: Rick May
Topic: 8608 Message: 8609

Hi Ellen,

I will be there ....

73' Rick KC0HH
Lamar, Colorado

Ellen R <ellenjoanne2003@...> wrote: Hi everybody,

I got home late from the animal shelter last night (as in around 9pm). Nevertheless, I fired up my baby to let it warm up, and let the VFO settle down, to try asked. Then my phone rang, and I ended up being on the phone until after 11pm. So, I never did get on the air.

Tonight is different. I'm done at work as of now, and I should be home before 6pm CDT (I have a few things I have to do before I get home). So I should be able to get on the air tonight.

Is anybody interested in trying to do a roundtable tonight? If condx. are OK, I'll try 20m, but more than likely it'll be on 40m (or if that's long, 75m).

I'll let you know later on, what freq. I'll be on, and when I'm on the air. I hope to hear some of you tonight.

73,
Ellen - AF9J

73' Rick KC0HH
Lamar, Colorado

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8610. RE: [TS-520_820_530_830] Anybody interested in trying a roundtable tonight?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 21:47:17 UTC
From: Ken Gunton
Topic: 8608 Message: 8610

I'll be there if it's 40 or 20

Ken, W8ASA, Dayton, Ohio

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick May
Sent: Tuesday, August 08, 2006 5:34 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Anybody interested in trying a roundtable
tonight?

Hi Ellen,

I will be there ....

73' Rick KC0HH
Lamar, Colorado

Ellen R <ellenjoanne2003@...> wrote:
Hi everybody,

I got home late from the animal shelter last night (as in around 9pm).
Nevertheless, I fired up my baby to let it warm up, and let the VFO
settle down, to try asked. Then my phone rang, and I ended up being on
the phone until after 11pm. So, I never did get on the air.

Tonight is different. I'm done at work as of now, and I should be home
before 6pm CDT (I have a few things I have to do before I get home).
So I should be able to get on the air tonight.

Is anybody interested in trying to do a roundtable tonight? If condx.
are OK, I'll try 20m, but more than likely it'll be on 40m (or if
that's long, 75m).

I'll let you know later on, what freq. I'll be on, and when I'm on the
air. I hope to hear some of you tonight.

73,
Ellen - AF9J

73' Rick KC0HH
Lamar, Colorado

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8611. Re: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 21:28:10 UTC
From: John Harp
Topic: 8595 Message: 8611

Check the resistance of the wafers on the contacts at close. Use a multimeter to see the resistance. more than >1 probably is the culprit.

Walt Breining <n9wb@...> wrote: What rig. If it is an 830, it probably is in the bandswitch.
Vy 73, Walt N9WB

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 07, 2006 8:30 PM
Subject: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

I intermittently have low receive signal on these bands. One symptom is that the Drive control has no apparent effect on receive. Other bands seem just fine.

Any ideas on what might cause this? Transmit output seems okay.

By the way, my VFO was jumping around so I took the advice found on this group regarding backing out all the Phillips screws and re-tightening them, and the problem was instantly fixed. Thanks for all the great advice.

Ken W8ASA

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/06

[Non-text portions of this message have been removed]

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

8612. RE: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 21:23:01 UTC
From: John Harp
Topic: 8595 Message: 8612

Ken,
1) Get some contact cleaner and spray the contacts real good. Rotate them back and forth and spray some more.I use lectra clean or CO Contact Spray on mine.even clean the chain drive assembly. Spray that with tri-flo. the ptfe base lubes them real good.

2) Alot of times the wafer switches need attention on my 830 rigs too. If you must clean the pittings use a burnishing tool. If its worn beyond the plating get one of those Conductive Ink Pens andDe-Ox from Radio shack.De-Ox first then coat the contact area itself. Get the plating area clean including all residue and corrosion.This removes the resistance of that RF contact and with the conductive coating applied, the resistance is cut down enough to get the signal across like it should.

3) Back the screws out and remove the lock washers. Turn them a little bit to catch a fresh spot maybe clean the area with de- or contact cleaner or de-ox too. Put the screws back in and tighten them. You don't have to torque hard on them, but tight so they don't back off. A lot of times the humidity and pollutants in the air reside at these spots.

4) On mine, I spray the Pots and switches from the slot in the back of the part and spin the knob while I'm in there. I've gone after the connectors before too.Pull them and spray and put them back on a few times, cleans them up.

A site to see an example on is Ken's K4EAA web site. He has a good example of the restoration. Do the processes a little at a time. Don't try to go at it all at once, do a little bit at a time.

Ken Gunton <ken@...> wrote:
Sorry. TS-830S. This just started happening. Guess I'll
have to go find some De-ox-it and get to work. The
bandswitch itself, including the couplers, look okay
at first glance. No obvious cracks.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walt Breining
Sent: Tuesday, August 08, 2006 6:04 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

What rig. If it is an 830, it probably is in the bandswitch.
Vy 73, Walt N9WB

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 07, 2006 8:30 PM
Subject: [TS-520_820_530_830] Low receive on 3.5, 7.0, and 10 MHz bands

I intermittently have low receive signal on these bands. One symptom is that the Drive control has no apparent effect on receive. Other bands seem just fine.

Any ideas on what might cause this? Transmit output seems okay.

By the way, my VFO was jumping around so I took the advice found on this group regarding backing out all the Phillips screws and re-tightening them, and the problem was instantly fixed. Thanks for all the great advice.

Ken W8ASA

--

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/06

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8613. FS: TS520 Station

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-08 23:31:46 UTC
From: buckygeer
Topic: 8613 Message: 8613

Collector quality TS520 transceiver...looks new as does the box.
Excellent MC50 desk mic, VFO520 and SP520. Full output...works
great...in storage many years. You will not find a nicer TS520
$495 shipped and insured conus, or discounted if picked up in Memphis,
Tn.
James Geer...WB5LXZ
buckygeer@...

8614. TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 00:05:21 UTC
From: unifiedcourt
Topic: 6404 Message: 8614

Recently obtained a remote Kenwood VFO-520. I need to find a nine (9) pin connector cable to connect my radio to the remote VFO. Anyone know where I can get one? Thanks in advance......Ron KB2SQY <hrhoule@earthlink.net>

8615. Re: [TS-520_820_530_830] TS-520 Power cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 00:16:06 UTC
From: Bill Scurlock
Topic: 8606 Message: 8615

Bill, look up K4EAA on QRZ.com and go to his website. I think he sells the plug you are looking for.

73, Bill, K5GCW
----- Original Message -----
From: Bill Grimwood
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 08, 2006 9:21 AM
Subject: [TS-520_820_530_830] TS-520 Power cord

I have just purchased a TS-520 radio and do not have a power cord. What type of plug fits the rear of the radio? I believe it will work on AC or DC. If I can't find the proper plug which pins are used for AC and/or DC?

I am looking forward to membership in this group.

Bill Grimwood

W4WEG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8616. Re: TS-520 Power cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 00:17:06 UTC
From: Ellen R
Topic: 8606 Message: 8616

Hi Bill,

The power cord plug is of the type known as a Cinch-Jones plug. They were very commonly used on ham radios in the 70s. My TS-820 has one, Yaesu, and Drake also used them. The plugs are still available to the best of my knowledge.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Grimwood" <Bill@...> wrote:
>
> I have just purchased a TS-520 radio and do not have a power cord. What type of plug fits the rear of the radio? I believe it will work on AC or DC. If I can't find the proper plug which pins are used for AC and/or DC?
>
> I am looking forward to membership in this group.
>
>
> Bill Grimwood
>
> W4WEG
>
> [Non-text portions of this message have been removed]
>

8617. Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 03:24:27 UTC
From: Ellen R
Topic: 8608 Message: 8617

Hi again everybody,

Sorry this is late. I was all set to go at 0045z, when I got a phone call from friend who lives in California, who was feeling bummed out. Rather than hurt her feelings, and I spent the next 2 hours on the phone letting her talk, until she felt better. Oh well.

40 is dead, so I went to 75m - only to find out the hard way that my modified antenna will only load up when fed in a T configuration. Ugh! it's late but if any of you night owls are up, I'm still willing to give it a try on 75m, eventhough it's noisy. I'll be calling on 3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So ahead of time, I'll say good night to all of you.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi everybody,
>
> I got home late from the animal shelter last night (as in around 9pm).
> Nevertheless, I fired up my baby to let it warm up, and let the VFO
> settle down, to try asked. Then my phone rang, and I ended up being on
> the phone until after 11pm. So, I never did get on the air.
>
> Tonight is different. I'm done at work as of now, and I should be home
> before 6pm CDT (I have a few things I have to do before I get home).
> So I should be able to get on the air tonight.
>
> Is anybody interested in trying to do a roundtable tonight? If condx.
> are OK, I'll try 20m, but more than likely it'll be on 40m (or if
> that's long, 75m).
>
> I'll let you know later on, what freq. I'll be on, and when I'm on the
> air. I hope to hear some of you tonight.
>
> 73,
> Ellen - AF9J

>

8618. Re: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 12:24:44 UTC
From: Ken Gunton
Topic: 8608 Message: 8618

Last night, I spent quite a while on 20m trying to get KC0HH to hear me, to no avail. I could hear him having other QSOs but never could get him to come back to me. I was also listening for you, Ellen, but I gave up at 11PM EDT. Four to six years from now, this won't be a problem... hi hi

Keep on trying! We're all out here somewhere.

Ken
W8ASA

Ellen R <ellenjoanne2003@...> wrote:

Hi again everybody,

Sorry this is late. I was all set to go at 0045z, when I got a phone call from friend who lives in California, who was feeling bummed out. Rather than hurt her feelings, and I spent the next 2 hours on the phone letting her talk, until she felt better. Oh well.

40 is dead, so I went to 75m - only to find out the hard way that my modified antenna will only load up when fed in a T configuration. Ugh! it's late but if any of you night owls are up, I'm still willing to give it a try on 75m, eventhough it's noisy. I'll be calling on 3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So ahead of time, I'll say good night to all of you.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
wrote:
>
> Hi everybody,
>
> I got home late from the animal shelter last night (as in around
9pm).
> Nevertheless, I fired up my baby to let it warm up, and let the VFO
> settle down, to try asked. Then my phone rang, and I ended up
being on
> the phone until after 11pm. So, I never did get on the air.
>
> Tonight is different. I'm done at work as of now, and I should be
home
> before 6pm CDT (I have a few things I have to do before I get

home).
> So I should be able to get on the air tonight.
>
> Is anybody interested in trying to do a roundtable tonight? If
condx.
> are OK, I'll try 20m, but more than likely it'll be on 40m (or if
> that's long, 75m).
>
> I'll let you know later on, what freq. I'll be on, and when I'm on
the
> air. I hope to hear some of you tonight.
>
> 73,
> Ellen - AF9J
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

8619. Re: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 13:18:40 UTC
From: Rick May
Topic: 8608 Message: 8619

Hi Ken,

Sorry about that...I had my beam up your way when I was talking to the Baltimore station, but had swung it southeast after that...
I also listened for Ellen on 75mtrs but the band was too noisy. Maybe next time.

73' Rick KC0HH
Lamar, Colorado

Ken Gunton <ken@...> wrote: Last night, I spent quite a while on 20m trying to get KC0HH to hear me, to no avail. I could hear him having other QSOs but
never could get him to come back to me. I was also listening for
you, Ellen, but I gave up at 11PM EDT. Four to six years from now,
this won't be a problem... hi hi

Keep on trying! We're all out here somewhere.

Ken
W8ASA

Ellen R <ellenjoanne2003@sbcglobal.net> wrote:

Hi again everybody,

Sorry this is late. I was all set to go at 0045z, when I got a phone
call from friend who lives in California, who was feeling bummed
out. Rather than hurt her feelings, and I spent the next 2 hours on
the phone letting her talk, until she felt better. Oh well.

40 is dead, so I went to 75m - only to find out the hard way that my
modified antenna will only load up when fed in a T configuration.
Ugh! it's late but if any of you night owls are up, I'm still willing
to give it a try on 75m, eventhough it's noisy. I'll be calling on
3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So
ahead of time, I'll say good night to all of you.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
wrote:
>
> Hi everybody,
>
> I got home late from the animal shelter last night (as in around
9pm).

> Nevertheless, I fired up my baby to let it warm up, and let the VFO
> settle down, to try asked. Then my phone rang, and I ended up
being on
> the phone until after 11pm. So, I never did get on the air.
>
> Tonight is different. I'm done at work as of now, and I should be
home
> before 6pm CDT (I have a few things I have to do before I get
home).
> So I should be able to get on the air tonight.
>
> Is anybody interested in trying to do a roundtable tonight? If
condx.
> are OK, I'll try 20m, but more than likely it'll be on 40m (or if
> that's long, 75m).
>
> I'll let you know later on, what freq. I'll be on, and when I'm on
the
> air. I hope to hear some of you tonight.
>
> 73,
> Ellen - AF9J
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1¢/min.

[Non-text portions of this message have been removed]

8620. Re: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 13:28:41 UTC
From: yash@aol.com
Topic: 8608 Message: 8620

Hi
If you want a net or round table,I suggest you stay on either 17 or 20 meters. Why... because most hams have the ability to run 17 or 20 as opposed to doing 75-80 . 40 meters at nite for a net ,is not worth the effort
considering the bands condition at nite. My suggestion,for what its worth , is try weekend daylight hours on 17 or any time on 20. Forgot some of the old Kenwood can't do 17, so scrap that. My 20 meter beam turns,my 40 meter dipole does not.
Just a thought.
dale wt4t

-----Original Message-----
From: ellenjoanne2003@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tue, 8 Aug 2006 11:24 PM
Subject: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Hi again everybody,

Sorry this is late. I was all set to go at 0045z, when I got a phone call from friend who lives in California, who was feeling bummed out. Rather than hurt her feelings, and I spent the next 2 hours on the phone letting her talk, until she felt better. Oh well.

40 is dead, so I went to 75m - only to find out the hard way that my modified antenna will only load up when fed in a T configuration. Ugh! it's late but if any of you night owls are up, I'm still willing to give it a try on 75m, eventhough it's noisy. I'll be calling on 3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So ahead of time, I'll say good night to all of you.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi everybody,
>
> I got home late from the animal shelter last night (as in around 9pm).
> Nevertheless, I fired up my baby to let it warm up, and let the VFO
> settle down, to try asked. Then my phone rang, and I ended up being on
> the phone until after 11pm. So, I never did get on the air.

>
> Tonight is different. I'm done at work as of now, and I should be
home
> before 6pm CDT (I have a few things I have to do before I get
home).
> So I should be able to get on the air tonight.
>
> Is anybody interested in trying to do a roundtable tonight? If
condx.
> are OK, I'll try 20m, but more than likely it'll be on 40m (or if
> that's long, 75m).
>
> I'll let you know later on, what freq. I'll be on, and when I'm on
the
> air. I hope to hear some of you tonight.
>
> 73,
> Ellen - AF9J
>

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

8621. RE: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 13:46:53 UTC
From: Ken Gunton
Topic: 8608 Message: 8621

Rick, your signal went from an S0 to S9+++ as
the QSB came and went. Sometimes you sounded like
you were next door, and other times no one was
home. I could tell that the people you had QSOs with
were on, but could not tell what they said.

Can we fast forward 4 years to better sunspots?

Ken W8ASA

Hi Ken,

Sorry about that...I had my beam up your way when I was talking to the
Baltimore station, but had swung it southeast after that...
I also listened for Ellen on 75mtrs but the band was too noisy. Maybe
next time.

73' Rick KC0HH
Lamar, Colorado

8622. Re: [TS-520_820_530_830] Re: TS-520 Power cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 14:08:55 UTC
From: Bill Grimwood
Topic: 8606 Message: 8622

Thanks I found one at a local store.

Bill
----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 08, 2006 7:17 PM
Subject: [TS-520_820_530_830] Re: TS-520 Power cord

Hi Bill,

The power cord plug is of the type known as a Cinch-Jones plug. They were very commonly used on ham radios in the 70s. My TS-820 has one, Yaesu, and Drake also used them. The plugs are still available to the best of my knowledge.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Grimwood" <Bill@...> wrote:
>
> I have just purchased a TS-520 radio and do not have a power cord. What type of plug fits the rear of the radio? I believe it will work on AC or DC. If I can't find the proper plug which pins are used for AC and/or DC?
>
> I am looking forward to membership in this group.
>
>
> Bill Grimwood
>
> W4WEG
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8623. TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 14:52:52 UTC
From: Bill Grimwood
Topic: 1213 Message: 8623

I have just purchased a TS-520 and have a manual for a TS-520S. What is the difference in these radios?

Thanks

Bill W4WEG

[Non-text portions of this message have been removed]

8624. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 16:31:44 UTC
From: Ellen R
Topic: 1213 Message: 8624

Hi Bill,

The TS-520 is the very first model of the 520 series (and also the first of the Kenwood hybrids). The 520S is its successor. The biggest difference, is that the TS-520 covers 80-10m, whereas the TS-520S covers 160-10m. There are some other differences beetween the 520 and 520S. If you'd like to know what they are, here is a link to K4EAA's website. He not only repairs them, but describes each model:

http://www.k4eaa.com/types.html

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Grimwood" <Bill@...> wrote:
>
> I have just purchased a TS-520 and have a manual for a TS-520S. What is the difference in these radios?
>
>
>
> Thanks
>
>
>
> Bill W4WEG
>
> [Non-text portions of this message have been removed]
>

8625. Roundtable or QSOs - OK, let's give it another try

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 16:45:11 UTC
From: Ellen R
Topic: 8625 Message: 8625

Hello again,

At the risk of looking like a complete fool, I'm going to try again tonight. I'm looking for people who either want to QSO me and my TS-820, and/or (if enough people show up) try for another roundtable. The solar flux is lower than low (I just checked now, and it's only 71), so I will only briefly check 20m, to see if anything's happening. More than likely (assuming that another one of my friends doesn't decide to use me as their phone therapist again), I will be QRV by 7pm on 40m. It looks like 7248 KHz has been reasonably clear for me, so I will call there. If that freq. is bad, I will look elsewhere on 40, and let you all know where I am.

If 40 is the pits, I will NOT go to 75m. It may have been noisy, but I was reminded that 75 is a zoo most of the time (which is one of the reasons I typically avoid it like the plague). If 40 is bad, I will instead try 160m (yeah, I know it's noisy, but I know from past experience, that 160 will occasionally surprise you by giving even barefoot stations with marginal antennas, S9+ signals during noisy condx).

73,
Ellen - AF9J

8626. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 17:43:39 UTC
From: Bill Grimwood
Topic: 1213 Message: 8626

Thanks

Bill

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 09, 2006 11:31 AM
Subject: [TS-520_820_530_830] Re: TS-520

Hi Bill,

The TS-520 is the very first model of the 520 series (and also the first of the Kenwood hybrids). The 520S is its successor. The biggest difference, is that the TS-520 covers 80-10m, whereas the TS-520S covers 160-10m. There are some other differences beetween the 520 and 520S. If you'd like to know what they are, here is a link to K4EAA's website. He not only repairs them, but describes each model:

http://www.k4eaa.com/types.html

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Grimwood" <Bill@...> wrote:
>
> I have just purchased a TS-520 and have a manual for a TS-520S. What is the difference in these radios?
>
>
>
> Thanks
>
>
>
> Bill W4WEG
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8629. Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 19:01:37 UTC
From: Ellen R
Topic: 8608 Message: 8629

Hi Dale,

I agree, 20 would be the best. I am just treating what I'm doing during the week, as a way to get something going. It's not a net per-se, and I never intended it to be one. It's more like an exuse to get some Kenwood hybrids together.

I've been listening on 20m after 2300Z lately, and frankly in the northern US, it hasn't been very useable by that time of the day, so yes it would have to be used for a net on a Saturday morning or afternoon.

So you have a beam..... hmmmmmm. Interested in being a net control?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, yash@... wrote:
>
> Hi
> If you want a net or round table,I suggest you stay on either 17 or 20 meters. Why... because most hams have the ability to run 17 or 20 as opposed to doing 75-80 . 40 meters at nite for a net ,is not worth the effort
> considering the bands condition at nite. My suggestion,for what its worth , is try weekend daylight hours on 17 or any time on 20. Forgot some of the old Kenwood can't do 17, so scrap that. My 20 meter beam turns,my 40 meter dipole does not.
> Just a thought.
> dale wt4t
>
> -----Original Message-----
> From: ellenjoanne2003@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tue, 8 Aug 2006 11:24 PM
> Subject: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!
>
>
> Hi again everybody,
>
> Sorry this is late. I was all set to go at 0045z, when I got a phone
> call from friend who lives in California, who was feeling bummed
> out. Rather than hurt her feelings, and I spent the next 2 hours on

> the phone letting her talk, until she felt better. Oh well.
>
> 40 is dead, so I went to 75m - only to find out the hard way that
my
> modified antenna will only load up when fed in a T configuration.
> Ugh! it's late but if any of you night owls are up, I'm still
willing
> to give it a try on 75m, eventhough it's noisy. I'll be calling on
> 3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So
> ahead of time, I'll say good night to all of you.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi everybody,
> >
> > I got home late from the animal shelter last night (as in around
> 9pm).
> > Nevertheless, I fired up my baby to let it warm up, and let the
VFO
> > settle down, to try asked. Then my phone rang, and I ended up
> being on
> > the phone until after 11pm. So, I never did get on the air.
> >
> > Tonight is different. I'm done at work as of now, and I should
be
> home
> > before 6pm CDT (I have a few things I have to do before I get
> home).
> > So I should be able to get on the air tonight.
> >
> > Is anybody interested in trying to do a roundtable tonight? If
> condx.
> > are OK, I'll try 20m, but more than likely it'll be on 40m (or
if
> > that's long, 75m).
> >
> > I'll let you know later on, what freq. I'll be on, and when I'm
on
> the
> > air. I hope to hear some of you tonight.
> >
> > 73,
> > Ellen - AF9J
> >
>
>

>

--
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

8630. Re: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 19:41:13 UTC
From: Ruben Echevarria
Topic: 8608 Message: 8630

KA2HHB monitoring 14.275 right now.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 9, 2006 3:01:37 PM
Subject: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Hi Dale,

I agree, 20 would be the best. I am just treating what I'm doing during the week, as a way to get something going. It's not a net per-se, and I never intended it to be one. It's more like an exuse to get some Kenwood hybrids together.

I've been listening on 20m after 2300Z lately, and frankly in the northern US, it hasn't been very useable by that time of the day, so yes it would have to be used for a net on a Saturday morning or afternoon.

So you have a beam..... hmmmmmm. Interested in being a net control?

73,
Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, yash@... wrote:
>
> Hi
> If you want a net or round table,I suggest you stay on either 17 or 20 meters. Why... because most hams have the ability to run 17 or 20 as opposed to doing 75-80 . 40 meters at nite for a net ,is not worth the effort
> considering the bands condition at nite. My suggestion,for what its worth , is try weekend daylight hours on 17 or any time on 20. Forgot some of the old Kenwood can't do 17, so scrap that. My 20 meter beam turns,my 40 meter dipole does not.
> Just a thought.
> dale wt4t
>
> -----Original Message-----

> From: ellenjoanne2003@ ...
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tue, 8 Aug 2006 11:24 PM
> Subject: [TS-520_820_ 530_830] Re: Anybody interested in trying a
roundtable tonight? - Finally I can do it!
>
>
> Hi again everybody,
>
> Sorry this is late. I was all set to go at 0045z, when I got a
phone
> call from friend who lives in California, who was feeling bummed
> out. Rather than hurt her feelings, and I spent the next 2 hours
on
> the phone letting her talk, until she felt better. Oh well.
>
> 40 is dead, so I went to 75m - only to find out the hard way that
my
> modified antenna will only load up when fed in a T configuration.
> Ugh! it's late but if any of you night owls are up, I'm still
willing
> to give it a try on 75m, eventhough it's noisy. I'll be calling on
> 3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So
> ahead of time, I'll say good night to all of you.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Ellen R"
> <ellenjoanne2003@ > wrote:
> >
> > Hi everybody,
> >
> > I got home late from the animal shelter last night (as in around
> 9pm).
> > Nevertheless, I fired up my baby to let it warm up, and let the
VFO
> > settle down, to try asked. Then my phone rang, and I ended up
> being on
> > the phone until after 11pm. So, I never did get on the air.
> >
> > Tonight is different. I'm done at work as of now, and I should
be
> home
> > before 6pm CDT (I have a few things I have to do before I get
> home).
> > So I should be able to get on the air tonight.
> >
> > Is anybody interested in trying to do a roundtable tonight? If
> condx.

> > are OK, I'll try 20m, but more than likely it'll be on 40m (or
if
> > that's long, 75m).
> >
> > I'll let you know later on, what freq. I'll be on, and when I'm
on
> the
> > air. I hope to hear some of you tonight.
> >
> > 73,
> > Ellen - AF9J
> >
>
>
>

---------- --------- --------- --------- --------- --------- -
--
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8631. Re: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 19:56:19 UTC
From: Ruben Echevarria
Topic: 8608 Message: 8631

Nothing but noise on 14.275 band is dead. Called CQ about 5 times no come backs.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 9, 2006 3:41:13 PM
Subject: Re: [TS-520_820_530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

KA2HHB monitoring 14.275 right now.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Ellen R <ellenjoanne2003@ sbcglobal. net>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Wednesday, August 9, 2006 3:01:37 PM
Subject: [TS-520_820_ 530_830] Re: Anybody interested in trying a roundtable tonight? - Finally I can do it!

Hi Dale,

I agree, 20 would be the best. I am just treating what I'm doing during the week, as a way to get something going. It's not a net per-se, and I never intended it to be one. It's more like an exuse to get some Kenwood hybrids together.

I've been listening on 20m after 2300Z lately, and frankly in the northern US, it hasn't been very useable by that time of the day, so yes it would have to be used for a net on a Saturday morning or afternoon.

So you have a beam..... hmmmmmm. Interested in being a net control?

73,
Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, yash@... wrote:
>
> Hi

> If you want a net or round table,I suggest you stay on either 17
or 20 meters. Why... because most hams have the ability to run 17 or
20 as opposed to doing 75-80 . 40 meters at nite for a net ,is not
worth the effort
> considering the bands condition at nite. My suggestion,for what
its worth , is try weekend daylight hours on 17 or any time on 20.
Forgot some of the old Kenwood can't do 17, so scrap that. My 20
meter beam turns,my 40 meter dipole does not.
> Just a thought.
> dale wt4t
>
> -----Original Message-----
> From: ellenjoanne2003@ ...
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tue, 8 Aug 2006 11:24 PM
> Subject: [TS-520_820_ 530_830] Re: Anybody interested in trying a
roundtable tonight? - Finally I can do it!
>
>
> Hi again everybody,
>
> Sorry this is late. I was all set to go at 0045z, when I got a
phone
> call from friend who lives in California, who was feeling bummed
> out. Rather than hurt her feelings, and I spent the next 2 hours
on
> the phone letting her talk, until she felt better. Oh well.
>
> 40 is dead, so I went to 75m - only to find out the hard way that
my
> modified antenna will only load up when fed in a T configuration.
> Ugh! it's late but if any of you night owls are up, I'm still
willing
> to give it a try on 75m, eventhough it's noisy. I'll be calling on
> 3897 KHz. If I hear nobody after 15-20 minutes I'll go QRT. So
> ahead of time, I'll say good night to all of you.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Ellen R"
> <ellenjoanne2003@ > wrote:
> >
> > Hi everybody,
> >
> > I got home late from the animal shelter last night (as in around
> 9pm).
> > Nevertheless, I fired up my baby to let it warm up, and let the
VFO
> > settle down, to try asked. Then my phone rang, and I ended up

> being on
> > the phone until after 11pm. So, I never did get on the air.
> >
> > Tonight is different. I'm done at work as of now, and I should
be
> home
> > before 6pm CDT (I have a few things I have to do before I get
> home).
> > So I should be able to get on the air tonight.
> >
> > Is anybody interested in trying to do a roundtable tonight? If
> condx.
> > are OK, I'll try 20m, but more than likely it'll be on 40m (or
if
> > that's long, 75m).
> >
> > I'll let you know later on, what freq. I'll be on, and when I'm
on
> the
> > air. I hope to hear some of you tonight.
> >
> > 73,
> > Ellen - AF9J
> >
>
>
>

---------- --------- --------- --------- --------- --------- -
--
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8632. Re: [TS-520_820_530_830] Re: TS-520 Power cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 21:49:58 UTC
From: Walt Breining
Topic: 8606 Message: 8632

Some power cord plugs are numbered as a mirror image to others. If this is the square plug as opposed to a round one, you should be very careful to check for this.

Vy 73, Walt N9WB

----- Original Message -----
From: Bill Grimwood
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 09, 2006 9:08 AM
Subject: Re: [TS-520_820_530_830] Re: TS-520 Power cord

Thanks I found one at a local store.

Bill
----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 08, 2006 7:17 PM
Subject: [TS-520_820_530_830] Re: TS-520 Power cord

Hi Bill,

The power cord plug is of the type known as a Cinch-Jones plug. They were very commonly used on ham radios in the 70s. My TS-820 has one, Yaesu, and Drake also used them. The plugs are still available to the best of my knowledge.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Grimwood" <Bill@...> wrote:
>
> I have just purchased a TS-520 radio and do not have a power cord. What type of plug fits the rear of the radio? I believe it will work on AC or DC. If I can't find the proper plug which pins are used for AC and/or DC?
>
> I am looking forward to membership in this group.
>
>
> Bill Grimwood
>
> W4WEG
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.8/415 - Release Date: 8/9/06

[Non-text portions of this message have been removed]

8633. Kenwood TS-530 S Package for sale---$500.00

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-09 23:39:26 UTC
From: w9nessar
Topic: 8633 Message: 8633

I have for sale the foolwing Kenwood HF equipment that I wish to sell together as a matched hf station.Kenwood TS-530 S 80-10Meters along with the WARC Bands-Kenwood AT 230 Antenna Tuner, Kenwood SP-230Speaker, Kenwood MC-50 Base Mike, All Operating Manuals and a orginal Kenwood Ts-530S Brochure. ALL THE ABOVE EQUIPMENT HAS BEEN CHECKED OUT AND WORKING FINE, ALL EQUIPMENT IS IN MINT CONDITION, TRANSMITTER HAS NEVER BEEN TRANSMITTED ON, ALL THAT WAS USED WAS THE TRANSCIEVER AS A HF RECEIVER. I Bought all this equipment thinking that I was going to get my general license but have deceided to sell the equipment,Any one intrestred please e-mail me at W9nes@Hotmail.com or I can be reached at home 317-299-0307 between the hours of 1:30-9PM EDT Mon-Fri, Sat and Sunday 10AM-9PM, If I am not at home,Please leave your name and telephone number on the voice mail and I will call you back.Thank You,73 Tim DeLong W9NES Indianapolis,Indiana

8634. QRV in 40 meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 02:30:25 UTC
From: Ellen R
Topic: 8634 Message: 8634

If anhybody feels like having a chat, I'm on 7232 KHz, calling CQ.

73,
Ellen - AF9J

8635. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 02:33:54 UTC
From: Clif
Topic: 1213 Message: 8635

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Bill,
>
> The TS-520 is the very first model of the 520 series (and also the
> first of the Kenwood hybrids).

The 511 was a hybrid and before the 520

Clif

8636. RE: [TS-520_820_530_830] QRV in 40 meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 02:37:08 UTC
From: Ken Gunton
Topic: 8634 Message: 8636

It is 2236 EDt, and I'm listening
Ken W8ASA Dayton, OHio

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Wednesday, August 09, 2006 10:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] QRV in 40 meters

If anhybody feels like having a chat, I'm on 7232 KHz, calling CQ.

73,
Ellen - AF9J

Yahoo! Groups Links

8637. Re: QRV in 40 meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 02:55:41 UTC
From: Ellen R
Topic: 8634 Message: 8637

Thanks for listening Ken,

I didn't hear any replies on 40m, and I called until 5 minutes ago.
What signals I heard on 40, were from the deep south. If you'd like
to, I'm willing to try 160. I'm up around 1900 KHz.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...>
wrote:
>
> It is 2236 EDt, and I'm listening
> Ken W8ASA Dayton, OHio
>
>
> -----Original Message-----
> From: TS-520_820_530_830@...m
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Wednesday, August 09, 2006 10:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] QRV in 40 meters
>
>
> If anhybody feels like having a chat, I'm on 7232 KHz, calling CQ.
>
> 73,
> Ellen - AF9J
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

8638. RE: [TS-520_820_530_830] Re: QRV in 40 meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 03:00:05 UTC
From: Ken Gunton
Topic: 8634 Message: 8638

I have a G5RV Junior, and my MFJ 949 won't tune it to 160, so
I guess we'll have to call it a bust... sorry.
Maybe sometime during the day on 20m.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Wednesday, August 09, 2006 10:56 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: QRV in 40 meters

Thanks for listening Ken,

I didn't hear any replies on 40m, and I called until 5 minutes ago.
What signals I heard on 40, were from the deep south. If you'd like
to, I'm willing to try 160. I'm up around 1900 KHz.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...>
wrote:
>
> It is 2236 EDt, and I'm listening
> Ken W8ASA Dayton, OHio
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Wednesday, August 09, 2006 10:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] QRV in 40 meters
>
>
> If anhybody feels like having a chat, I'm on 7232 KHz, calling CQ.
>
> 73,
> Ellen - AF9J
>
>
>
>
>
>
>
> Yahoo! Groups Links

>

Yahoo! Groups Links

8639. Re: QRV in 40 meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 03:04:31 UTC
From: Ellen R
Topic: 8634 Message: 8639

Hmmmm,

I only have to to work a half day on Friday. If you'd like to try 40
or 20m after 12:30pm your time, I'm game. I'm in Wisconsin, and
you're in Ohio. At that time of the day, it might be hard to decide
which band is best (possibly 40).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...>
wrote:
>
> I have a G5RV Junior, and my MFJ 949 won't tune it to 160, so
> I guess we'll have to call it a bust... sorry.
> Maybe sometime during the day on 20m.
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Wednesday, August 09, 2006 10:56 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: QRV in 40 meters
>
>
> Thanks for listening Ken,
>
> I didn't hear any replies on 40m, and I called until 5 minutes
ago.
> What signals I heard on 40, were from the deep south. If you'd
like
> to, I'm willing to try 160. I'm up around 1900 KHz.
>
> Ellen - AF9J
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@>
> wrote:
> >
> > It is 2236 EDt, and I'm listening
> > Ken W8ASA Dayton, OHio
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com

> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> > Sent: Wednesday, August 09, 2006 10:30 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] QRV in 40 meters
> >
> >
> > If anhybody feels like having a chat, I'm on 7232 KHz, calling CQ.
> >
> > 73,
> > Ellen - AF9J
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

8640. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 03:22:18 UTC
From: Peter A Markavage
Topic: 1213 Message: 8640

And to add to the list, the TS-510 and TS-900 were also hybrids. Maybe
his definition of a Kenwood hybrid is solid-state and only 3 tubes.

Pete, wa2cwa

On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@...> writes:
--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Bill,
>
> The TS-520 is the very first model of the 520 series (and also the
> first of the Kenwood hybrids).

The 511 was a hybrid and before the 520

Clif

[Non-text portions of this message have been removed]

8641. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 11:41:51 UTC
From: Ellen R
Topic: 1213 Message: 8641

Yeah,

I realized that, when I read en e-ham review about the TS-511, 2 hours
after I sent the message. Sorry about that.

Ellen - AF9J

<SNIP!>

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:

> The 511 was a hybrid and before the 520
>
> Clif
>

8642. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 11:51:37 UTC
From: Ellen R
Topic: 1213 Message: 8642

She stands corrected,

The TS-900 is a pretty cool looking rig. To top it off, it also has AM capbility. If I could find one that wouldn't break the bank for me, I might be interested in it. My only downer about it, is the sweep tubes. Yeah, I know, if you take care of the sweep tubes, they can last as long as 6146s. But, I still have visions of them being as fussy as the sweep tubes were, in a Swan Cygnet I used for a few months back in 1993, right after I got my Advanced license. You had to be VERY careful with tuneup in that rig (the manual stressed it over and over), to avoid wrecking the sweep tube final. As a result, unlike my TS-820, tuneup was very fussy. You had to key down for no more than like 20 or 30 seconds. Then you had to wait at least 30 seconds (so the sweep tube final cooled down), before you keyed down again, to do the next tune-up step.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> And to add to the list, the TS-510 and TS-900 were also hybrids. Maybe
> his definition of a Kenwood hybrid is solid-state and only 3 tubes.
>
> Pete, wa2cwa
>
>
> On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif
>
>
>
>

> [Non-text portions of this message have been removed]
>

8643. Tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 12:35:39 UTC
From: Ken Gunton
Topic: 1213 Message: 8643

Wow. 20 or 30 seconds? That seems an incredibly long time for tuning. What did you have to do to tune that rig?

One thought has crossed my mind: Is there any interest among the group members in having some kind of informal gettogether during next year's Hamvention? w8bi.org has the dates, etc. If there is enough expressed interest, I would take on the task of setting it up.

If someone among us is conversant enough in these hybrids we all like so much, how about a presentation in one of the rooms at the Hamvention on the proper care and feeding of your rig - maybe even with a project rig right in front of the crowd with a video camera so everyone can see what you're doing.

Ok, ok, those are TWO thoughts. Sue me... hi hi

73s,
Ken, W8ASA
Dayton, Ohio
Home of the Hamvention

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Thursday, August 10, 2006 7:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520

She stands corrected,

The TS-900 is a pretty cool looking rig. To top it off, it also has AM capbility. If I could find one that wouldn't break the bank for me, I might be interested in it. My only downer about it, is the sweep tubes. Yeah, I know, if you take care of the sweep tubes, they can last as long as 6146s. But, I still have visions of them being as fussy as the sweep tubes were, in a Swan Cygnet I used for a few months back in 1993, right after I got my Advanced license. You had to be VERY careful with tuneup in that rig (the manual stressed it over and over), to avoid wrecking the sweep tube final. As a result, unlike my TS-820, tuneup was very fussy. You had to key down for no more than like 20 or 30 seconds. Then you had to wait at least 30 seconds (so the sweep tube final cooled down), before you keyed down again, to do the next tune-up step.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> And to add to the list, the TS-510 and TS-900 were also hybrids.
Maybe
> his definition of a Kenwood hybrid is solid-state and only 3 tubes.
>
> Pete, wa2cwa
>
>
> On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also
the
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

8644. Re: Tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 13:11:57 UTC
From: wb7_ssn
Topic: 1213 Message: 8644

Speaking about Dayton Hamvention. Next year I'm going to be going
there next Year for the first time and would love to get together with
members from this forum. A class on Hybtrids would really be nice.

Bext,
DW Holtman
WB7SSN

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
> Wow. 20 or 30 seconds? That seems an incredibly long time
> for tuning. What did you have to do to tune that
> rig?
>
> One thought has crossed my mind: Is there any interest
> among the group members in having some kind of informal
> gettogether during next year's Hamvention? w8bi.org has
> the dates, etc. If there is enough expressed interest, I
> would take on the task of setting it up.
>
> If someone among us is conversant enough in these hybrids
> we all like so much, how about a presentation in one of the
> rooms at the Hamvention on the proper care and feeding of
> your rig - maybe even with a project rig right in front
> of the crowd with a video camera so everyone can see what
> you're doing.
>
> Ok, ok, those are TWO thoughts. Sue me... hi hi
>
> 73s,
> Ken, W8ASA
> Dayton, Ohio
> Home of the Hamvention
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Thursday, August 10, 2006 7:52 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS-520
>
>
> She stands corrected,
>

> The TS-900 is a pretty cool looking rig. To top it off, it also has
> AM capbility. If I could find one that wouldn't break the bank for
> me, I might be interested in it. My only downer about it, is the
> sweep tubes. Yeah, I know, if you take care of the sweep tubes, they
> can last as long as 6146s. But, I still have visions of them being
> as fussy as the sweep tubes were, in a Swan Cygnet I used for a few
> months back in 1993, right after I got my Advanced license. You had
> to be VERY careful with tuneup in that rig (the manual stressed it
> over and over), to avoid wrecking the sweep tube final. As a result,
> unlike my TS-820, tuneup was very fussy. You had to key down for no
> more than like 20 or 30 seconds. Then you had to wait at least 30
> seconds (so the sweep tube final cooled down), before you keyed down
> again, to do the next tune-up step.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > And to add to the list, the TS-510 and TS-900 were also hybrids.
> Maybe
> > his definition of a Kenwood hybrid is solid-state and only 3 tubes.
> >
> > Pete, wa2cwa
> >
> >
> > On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@> writes:
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Bill,
> > >
> > > The TS-520 is the very first model of the 520 series (and also
> the
> > > first of the Kenwood hybrids).
> >
> > The 511 was a hybrid and before the 520
> >
> > Clif
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

>
>
>
> Yahoo! Groups Links
>

8645. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 13:56:01 UTC
From: vk3bfa
Topic: 1213 Message: 8645

--- In TS-520_820_530_830@yahoogroups.com, "Bill Grimwood" <Bill@...>
wrote:
>
> I have just purchased a TS-520 and have a manual for a TS-520S.
What is the difference in these radios?
>
>
>
> Thanks
>
>
>
> Bill W4WEG
>
> [Non-text portions of this message have been removed]
>
Hi Bill,
as explained, mainly more bands on the S model, and the PA deck uses a
PCB base instead of being hard wired. Also, there are subtle changes
in some of the resitors (from memoory, the cathode resistors of the
12BY7 driver) - why they did this, I dont know....

Andrew VK3BFA.

8646. Re: [TS-520_820_530_830] Re: Dayton

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 16:24:36 UTC
From: Peter A Markavage
Topic: 8646 Message: 8646

Bring good comfortable walking shoes; cash and carry works in the flea market; if you see something you like in the flea market but hesitate, (i.e. I'll come back later); the odds are you won't be able to find the space again, or, if you do, the item will be gone; bring a strong bag to carry "things" in. You can always find me at outside spaces 1960 and 1961, on the corner.

Pete, wa2cwa

On Thu, 10 Aug 2006 13:11:57 -0000 "wb7_ssn" <future212@...>
writes:
> Speaking about Dayton Hamvention. Next year I'm going to be going
> there next Year for the first time and would love to get together
> with
> members from this forum. A class on Hybtrids would really be nice.
>
> Bext,
> DW Holtman
> WB7SSN
>

8647. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 16:30:02 UTC
From: Peter A Markavage
Topic: 1213 Message: 8647

Yep, sweep tubes can be problematic if you're not careful but Drakes, Swans, Nationals, and a host of others used them for a number of years in their rigs and many are still in use today. The Kenwood 599 series has AM capability with excellent low level modulation. I've used my 599D's on AM for years. Most people I contact can't tell that I'm not running a plate modulated rig.

Pete, wa2cwa

On Thu, 10 Aug 2006 11:51:37 -0000 "Ellen R" <ellenjoanne2003@...> writes:

> She stands corrected,
>
> The TS-900 is a pretty cool looking rig. To top it off, it also has
>
> AM capbility. If I could find one that wouldn't break the bank for
>
> me, I might be interested in it. My only downer about it, is the
> sweep tubes. Yeah, I know, if you take care of the sweep tubes,
> they
> can last as long as 6146s. But, I still have visions of them being
>
> as fussy as the sweep tubes were, in a Swan Cygnet I used for a few
>
> months back in 1993, right after I got my Advanced license. You had
>
> to be VERY careful with tuneup in that rig (the manual stressed it
> over and over), to avoid wrecking the sweep tube final. As a
> result,
> unlike my TS-820, tuneup was very fussy. You had to key down for no
>
> more than like 20 or 30 seconds. Then you had to wait at least 30
> seconds (so the sweep tube final cooled down), before you keyed down
>
> again, to do the next tune-up step.
>
> 73,
> Ellen - AF9J

8648. Re: [TS-520_820_530_830] Tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 13:42:49 UTC
From: Bill Grimwood
Topic: 1213 Message: 8648

I plan to be there and would enjoy a gathering.

Bill W4WEG

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 10, 2006 7:35 AM
Subject: [TS-520_820_530_830] Tuning time 20 or 30 seconds

Wow. 20 or 30 seconds? That seems an incredibly long time
for tuning. What did you have to do to tune that
rig?

One thought has crossed my mind: Is there any interest
among the group members in having some kind of informal
gettogether during next year's Hamvention? w8bi.org has
the dates, etc. If there is enough expressed interest, I
would take on the task of setting it up.

If someone among us is conversant enough in these hybrids
we all like so much, how about a presentation in one of the
rooms at the Hamvention on the proper care and feeding of
your rig - maybe even with a project rig right in front
of the crowd with a video camera so everyone can see what
you're doing.

Ok, ok, those are TWO thoughts. Sue me... hi hi

73s,
Ken, W8ASA
Dayton, Ohio
Home of the Hamvention

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Thursday, August 10, 2006 7:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520

She stands corrected,

The TS-900 is a pretty cool looking rig. To top it off, it also has
AM capbility. If I could find one that wouldn't break the bank for
me, I might be interested in it. My only downer about it, is the
sweep tubes. Yeah, I know, if you take care of the sweep tubes, they

can last as long as 6146s. But, I still have visions of them being as fussy as the sweep tubes were, in a Swan Cygnet I used for a few months back in 1993, right after I got my Advanced license. You had to be VERY careful with tuneup in that rig (the manual stressed it over and over), to avoid wrecking the sweep tube final. As a result, unlike my TS-820, tuneup was very fussy. You had to key down for no more than like 20 or 30 seconds. Then you had to wait at least 30 seconds (so the sweep tube final cooled down), before you keyed down again, to do the next tune-up step.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> And to add to the list, the TS-510 and TS-900 were also hybrids. Maybe
> his definition of a Kenwood hybrid is solid-state and only 3 tubes.
>
> Pete, wa2cwa
>
>
> On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

8649. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 12:09:03 UTC
From: John Harp
Topic: 1213 Message: 8649

I remember my elmer having a 520SE. That thing had a TVI problem fir 5 houses around, even with the harmonic filter on line. Dale eventually got a 820 and it solved the problem. He said it was the sweep tubes. Why is sweep tubes a problem?

Clif <clif@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Bill,
>
> The TS-520 is the very first model of the 520 series (and also the
> first of the Kenwood hybrids).

The 511 was a hybrid and before the 520

Clif

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8650. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 18:00:05 UTC
From: Peter A Markavage
Topic: 1213 Message: 8650

520SE doesn't have sweep tubes. It has pretty much the same final layout
as the 820.
Pete, wa2cwa

On Thu, 10 Aug 2006 05:09:03 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> I remember my elmer having a 520SE. That thing had a TVI problem fir
> 5 houses around, even with the harmonic filter on line. Dale
> eventually got a 820 and it solved the problem. He said it was the
> sweep tubes. Why is sweep tubes a problem?
>
> Clif <clif@...> wrote: --- In
> TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
>
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif

8651. Re: Tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 18:24:59 UTC
From: Ellen R
Topic: 1213 Message: 8651

Ummm, it was made to a cost, and as a result, Swan cut corners on some of the components. A friend of mine who knew some of the people involved with Swan told me this (when she lived in San Diego, she worked for Cubic, who bought out Swan before her time). As a result, the sweep tube didn't have a lot of margin in plate dissipation. Sooooo, when the final was really out of tune when you started tune-up, there was a real risk of burning it out. There are mods that can be made to the early Swans to rectify this problem. Also, Swan did improve the disspation capability on it's later rigs. A fair amount of the issue was tube related (and as a result, they tried and used different sweep tunes in later Swans). It was also the way they biased the final tubes that were used.

I remember being very surprised and diappointed in the tune-up procedure. I had owned an FT-101B, a T-4XC, (briefly) a TS-520S, and had used a TS-830S. All of these rigs were easy to tune up. You just had to peak the drive, dip the plate, and peak the load. On the Swan, I had to be very fast & very careful. First you had to bring drive up to 120 or 140mA of plate current. Then you had to peak out the load, repeak the drive, and repeak the load a number of times, till your readings quit changing. Then you were done. All the while, you had to watch keydown, and (final) cooldown time, so you wouldn't nuke the final. Once the radio was tuned the final was reasonably happy, and would hold up pretty well. It's just that it took so long to tune the thing - about 3 minutes. I actually used the Swan Cygnet I had loaned from my local radio club for about 3 to 4 months. I even used in the the SSB edition of the NAQP contest. I tried to keep down my bandchanges - that's for sure!

Here's an ironic thing - a friend of mine who likes vintage radios, thinks Swans are cool. But he's tight for money. I don't live in Manitowoc, WI anymore (I live in the Milwaukee area nowadays), but I still have contact with the president of Manitowoc County's ham club. I asked him, if the club still had the Swan Cygnet,l because I knew somebody that might be interested in it. I was informed that yes, the club still had it, and was looking to auction it off anyway (along with some other radios - one was an HW-100), to earn some money for the club. So, after consulting with my friend, I put in a bid for $100 for the Swan Cygnet. I checked my e-mail 2 hours ago, and I read a message saying I'd won the bidding. If my friend can't afford the rig, or has changed his mind, and doesn't want it, it'll end up being mine. Oh, well.

Don't get me wrong, Swans aren't bad rigs. It's just that you have to careful with them. They make great phone rigs, and even have AM capbility (albeit AME [SSB with a carrier]). They aren't good CW

rigs, and the receiver selectivity is a little wide for crowded
bands. Still, like our Kenwoods, they have great phone audio.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "wb7_ssn" <future212@...>
wrote:
>
> Speaking about Dayton Hamvention. Next year I'm going to be going
> there next Year for the first time and would love to get together
with
> members from this forum. A class on Hybtrids would really be nice.
>
> Bext,
> DW Holtman
> WB7SSN
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@>
wrote:
> >
> > Wow. 20 or 30 seconds? That seems an incredibly long time
> > for tuning. What did you have to do to tune that
> > rig?
> >
> > One thought has crossed my mind: Is there any interest
> > among the group members in having some kind of informal
> > gettogether during next year's Hamvention? w8bi.org has
> > the dates, etc. If there is enough expressed interest, I
> > would take on the task of setting it up.
> >
> > If someone among us is conversant enough in these hybrids
> > we all like so much, how about a presentation in one of the
> > rooms at the Hamvention on the proper care and feeding of
> > your rig - maybe even with a project rig right in front
> > of the crowd with a video camera so everyone can see what
> > you're doing.
> >
> > Ok, ok, those are TWO thoughts. Sue me... hi hi
> >
> > 73s,
> > Ken, W8ASA
> > Dayton, Ohio
> > Home of the Hamvention
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> > Sent: Thursday, August 10, 2006 7:52 AM

> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS-520
> >
> >
> > She stands corrected,
> >
> > The TS-900 is a pretty cool looking rig. To top it off, it also
has
> > AM capbility. If I could find one that wouldn't break the bank
for
> > me, I might be interested in it. My only downer about it, is the
> > sweep tubes. Yeah, I know, if you take care of the sweep tubes,
they
> > can last as long as 6146s. But, I still have visions of them
being
> > as fussy as the sweep tubes were, in a Swan Cygnet I used for a
few
> > months back in 1993, right after I got my Advanced license. You
had
> > to be VERY careful with tuneup in that rig (the manual stressed
it
> > over and over), to avoid wrecking the sweep tube final. As a
result,
> > unlike my TS-820, tuneup was very fussy. You had to key down for
no
> > more than like 20 or 30 seconds. Then you had to wait at least
30
> > seconds (so the sweep tube final cooled down), before you keyed
down
> > again, to do the next tune-up step.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > <pmarkavage@> wrote:
> > >
> > > And to add to the list, the TS-510 and TS-900 were also hybrids.
> > Maybe
> > > his definition of a Kenwood hybrid is solid-state and only 3
tubes.
> > >
> > > Pete, wa2cwa
> > >
> > >
> > > On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@> writes:
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Hi Bill,

> > > >
> > > > The TS-520 is the very first model of the 520 series (and also
> > the
> > > > > first of the Kenwood hybrids).
> > > >
> > > > The 511 was a hybrid and before the 520
> > > >
> > > > Clif
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
>

8652. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 18:30:38 UTC
From: Ellen R
Topic: 1213 Message: 8652

Hi John,

The 520 did not use sweep tubes, it used 6146Bs, like the 520S, 820, 820S, 530S, and 830S.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I remember my elmer having a 520SE. That thing had a TVI problem fir 5 houses around, even with the harmonic filter on line. Dale eventually got a 820 and it solved the problem. He said it was the sweep tubes. Why is sweep tubes a problem?
>
> Clif <clif@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>

8653. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 18:24:28 UTC
From: John Harp
Topic: 1213 Message: 8653

Ok, thanks.

Peter A Markavage <pmarkavage@...> wrote: 520SE doesn't have sweep tubes. It has pretty much the same final layout
as the 820.
Pete, wa2cwa

On Thu, 10 Aug 2006 05:09:03 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> I remember my elmer having a 520SE. That thing had a TVI problem fir
> 5 houses around, even with the harmonic filter on line. Dale
> eventually got a 820 and it solved the problem. He said it was the
> sweep tubes. Why is sweep tubes a problem?
>
> Clif <clif@...> wrote: --- In
> TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
>
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8654. Re: [TS-520_820_530_830] Re: Tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-10 18:42:49 UTC
From: John Harp
Topic: 1213 Message: 8654

When I think about it. Theree's times when I wish I knew more about these hybrid rigs, I must admit. Sometimes, there's just not someone around when I really could use some insight. Al I've had for 25 years was the 830s. But still on occasions I find I could learn just a little more. People to repair them are getting harder to find too. Some knowledgable Hams are now SK too.

wb7_ssn <future212@...> wrote: Speaking about Dayton Hamvention. Next year I'm going to be going
there next Year for the first time and would love to get together with
members from this forum. A class on Hybtrids would really be nice.

Bext,
DW Holtman
WB7SSN

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
> Wow. 20 or 30 seconds? That seems an incredibly long time
> for tuning. What did you have to do to tune that
> rig?
>
> One thought has crossed my mind: Is there any interest
> among the group members in having some kind of informal
> gettogether during next year's Hamvention? w8bi.org has
> the dates, etc. If there is enough expressed interest, I
> would take on the task of setting it up.
>
> If someone among us is conversant enough in these hybrids
> we all like so much, how about a presentation in one of the
> rooms at the Hamvention on the proper care and feeding of
> your rig - maybe even with a project rig right in front
> of the crowd with a video camera so everyone can see what
> you're doing.
>
> Ok, ok, those are TWO thoughts. Sue me... hi hi
>
> 73s,
> Ken, W8ASA
> Dayton, Ohio
> Home of the Hamvention
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Thursday, August 10, 2006 7:52 AM

> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS-520
>
>
> She stands corrected,
>
> The TS-900 is a pretty cool looking rig. To top it off, it also has
> AM capbility. If I could find one that wouldn't break the bank for
> me, I might be interested in it. My only downer about it, is the
> sweep tubes. Yeah, I know, if you take care of the sweep tubes, they
> can last as long as 6146s. But, I still have visions of them being
> as fussy as the sweep tubes were, in a Swan Cygnet I used for a few
> months back in 1993, right after I got my Advanced license. You had
> to be VERY careful with tuneup in that rig (the manual stressed it
> over and over), to avoid wrecking the sweep tube final. As a result,
> unlike my TS-820, tuneup was very fussy. You had to key down for no
> more than like 20 or 30 seconds. Then you had to wait at least 30
> seconds (so the sweep tube final cooled down), before you keyed down
> again, to do the next tune-up step.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > And to add to the list, the TS-510 and TS-900 were also hybrids.
> Maybe
> > his definition of a Kenwood hybrid is solid-state and only 3 tubes.
> >
> > Pete, wa2cwa
> >
> >
> > On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@> writes:
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Bill,
> > >
> > > The TS-520 is the very first model of the 520 series (and also
> the
> > > first of the Kenwood hybrids).
> >
> > The 511 was a hybrid and before the 520
> >
> > Clif
> >
> >
> >
> >

> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8655. QRV on 7262 KHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 00:36:59 UTC
From: Ellen R
Topic: 8655 Message: 8655

If anybody would like to QSO, I have my TS-820 all warmed up, and ready to go. 20 is done for the night, but 40 is still open. I'm on 7262 KHz.

Ellen - AF9J

8656. Re: QRV on 7262 KHz - correction I'm now on 7270 KHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 00:40:35 UTC
From: Ellen R
Topic: 8655 Message: 8656

Duye to a net on 7264, I've moved up to 7270 KHz.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> If anybody would like to QSO, I have my TS-820 all warmed up, and
ready
> to go. 20 is done for the night, but 40 is still open. I'm on 7262
> KHz.
>
> Ellen - AF9J
>

8657. Here we go again - 7277

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 00:43:29 UTC
From: Ellen R
Topic: 8655 Message: 8657

7270 didn't work out, so I'm now on 7277 KHz, if anybody would like
to QSO.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Duye to a net on 7264, I've moved up to 7270 KHz.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > If anybody would like to QSO, I have my TS-820 all warmed up, and
> ready
> > to go. 20 is done for the night, but 40 is still open. I'm on
7262
> > KHz.
> >
> > Ellen - AF9J
> >
>

8658. This is getting ridiculous - try 7280 KHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 01:00:06 UTC
From: Ellen R
Topic: 8658 Message: 8658

My mom called for a brief chat. SO, I ahd to move again. If anybody wants to QSO, I'm FINALLY (this is the last QSY I'm going to do for the night) in 7280 KHz.

73, & hope to chat with some of you,
Ellen - AF9J

8659. Re: [TS-520_820_530_830] This is getting ridiculous - try 7280 KHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 02:09:18 UTC
From: Kelly Maiden
Topic: 8658 Message: 8659

Ellen R wrote:

> My mom called for a brief chat. SO, I ahd to move again. If anybody
> wants to QSO, I'm FINALLY (this is the last QSY I'm going to do for the
> night) in 7280 KHz.
>
> 73, & hope to chat with some of you,
> Ellen - AF9J
>
>

I've been lurking in the group for some time. I'd love to catch everyone
on the "net" some night. Unfortunately, I'm on the road most of the
week. I'm listening on 7.280, all I hear is the middle east broadcasts.
Kelly
AB8SG

[Non-text portions of this message have been removed]

8660. Poll results for TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 08:31:24 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 8660 Message: 8660

The following TS-520_820_530_830 poll is now closed. Here are the
final results:

POLL QUESTION: Would you like to participate in a net for classic Kenwood radios?

CHOICES AND RESULTS
- Yes, I'm interested. I'd prefer the net to be on 40m., 14 votes, 21.88%
- Yes, I'm interested. I'd prefer the net to be on 20m., 50 votes, 78.12%
- Yes I'm interested. I'd prefer the net to be on 15m., 0 votes, 0.00%
- No, I'm not interested in a classic Kenwood net., 0 votes, 0.00%

For more information about this group, please visit
http://groups.yahoo.com/group/TS-520_820_530_830

For help with Yahoo! Groups, please visit
http://help.yahoo.com/help/us/groups/

8661. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 09:45:31 UTC
From: Walt Breining
Topic: 1213 Message: 8661

The 520SE uses the same tubes as the 820. 6146/s2001. Walt N9WB
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 10, 2006 7:09 AM
Subject: Re: [TS-520_820_530_830] Re: TS-520

I remember my elmer having a 520SE. That thing had a TVI problem fir 5 houses around, even with the harmonic filter on line. Dale eventually got a 820 and it solved the problem. He said it was the sweep tubes. Why is sweep tubes a problem?

Clif <clif@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Bill,
>
> The TS-520 is the very first model of the 520 series (and also the
> first of the Kenwood hybrids).

The 511 was a hybrid and before the 520

Clif

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/416 - Release Date: 8/10/06

[Non-text portions of this message have been removed]

8662. Re: [TS-520_820_530_830] Tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 09:48:21 UTC
From: Walt Breining
Topic: 1213 Message: 8662

I sure would like to see us all get together at the Hamvention and meet each other in person. I have been to every Hamvention except 1994 since 1973.

Vy 73, Walt N9WB

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 10, 2006 7:35 AM
Subject: [TS-520_820_530_830] Tuning time 20 or 30 seconds

Wow. 20 or 30 seconds? That seems an incredibly long time
for tuning. What did you have to do to tune that
rig?

One thought has crossed my mind: Is there any interest
among the group members in having some kind of informal
gettogether during next year's Hamvention? w8bi.org has
the dates, etc. If there is enough expressed interest, I
would take on the task of setting it up.

If someone among us is conversant enough in these hybrids
we all like so much, how about a presentation in one of the
rooms at the Hamvention on the proper care and feeding of
your rig - maybe even with a project rig right in front
of the crowd with a video camera so everyone can see what
you're doing.

Ok, ok, those are TWO thoughts. Sue me... hi hi

73s,
Ken, W8ASA
Dayton, Ohio
Home of the Hamvention

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Thursday, August 10, 2006 7:52 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520

She stands corrected,

The TS-900 is a pretty cool looking rig. To top it off, it also has
AM capbility. If I could find one that wouldn't break the bank for
me, I might be interested in it. My only downer about it, is the

sweep tubes. Yeah, I know, if you take care of the sweep tubes, they can last as long as 6146s. But, I still have visions of them being as fussy as the sweep tubes were, in a Swan Cygnet I used for a few months back in 1993, right after I got my Advanced license. You had to be VERY careful with tuneup in that rig (the manual stressed it over and over), to avoid wrecking the sweep tube final. As a result, unlike my TS-820, tuneup was very fussy. You had to key down for no more than like 20 or 30 seconds. Then you had to wait at least 30 seconds (so the sweep tube final cooled down), before you keyed down again, to do the next tune-up step.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> And to add to the list, the TS-510 and TS-900 were also hybrids. Maybe
> his definition of a Kenwood hybrid is solid-state and only 3 tubes.
>
> Pete, wa2cwa
>
>
> On Thu, 10 Aug 2006 02:33:54 -0000 "Clif" <clif@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/416 - Release Date: 8/10/06

[Non-text portions of this message have been removed]

8663. RE: tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-11 23:28:09 UTC
From: bob54quam@cs.com
Topic: 8663 Message: 8663

20-30 seconds is a very long time to tune a tube rig.
I tune my Swan 270 in 2-3 second steps. It actually tunes much faster than my Kenwood 520S.
Incidently, the 6LQ6 (actually, mine has a
6ME6) final has been putting out full power (150-170 watts peak SSB) for the time I have owned it: over 10 years now.
Bob
KI0KM

[Non-text portions of this message have been removed]

8664. Re: tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 01:03:37 UTC
From: Ellen R
Topic: 8663 Message: 8664

HI Bob,

I have a feeling it's going to be mine. I asked my friend Tom, and he won't have any cash for it, for at least another month. I got it for a steal ($100). I wouldn't be surprised, if I was the last person to use it. Hmmmm, maybe you and I should run on-the-air checks of it, when I get it, like we did with my TS-820.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, bob54quam@... wrote:
>
> 20-30 seconds is a very long time to tune a tube rig.
> I tune my Swan 270 in 2-3 second steps. It actually tunes much faster than my
> Kenwood 520S.
> Incidently, the 6LQ6 (actually, mine has a
> 6ME6) final has been putting out full power (150-170 watts peak SSB) for the
> time I have owned it: over 10 years now.
> Bob
> KI0KM
>
>
> [Non-text portions of this message have been removed]
>

8665. Re: [TS-520_820_530_830] Re: tuning time 20 or 30 seconds

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 03:19:45 UTC
From: bob54quam@cs.com
Topic: 8663 Message: 8665

Sounds good Ellen,
Next to the 520S, the 270 is my favorite rig. I get consistently good reports on audio.
I wouldn't mind finding another to play with!
Fortunately, the conditions on 40 will be improving soon as Fall approaches.
Let me know when you get it.
Bob

[Non-text portions of this message have been removed]

8666. Trio TS520D?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 03:09:05 UTC
From: vk3bfa
Topic: 8666 Message: 8666

Hi All,
this morning, picked up a junker Trio TS520D - at casual glance, looks like a TS520, ie no warc bands, a few cosmetic differences - anything else of note about these? - its missing PA tubes, but from the 2 empty sockets in the PA cage, assume it uses 6146's. Is the Kenwood TS520 manual cloes enought to use? - just idle questions, its joined a long que of "junker" radios lying round the place...

8667. Re: [TS-520_820_530_830] Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 09:22:24 UTC
From: Walt Breining
Topic: 1213 Message: 8667

Test from N9WB sorry
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 10, 2006 1:00 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520

520SE doesn't have sweep tubes. It has pretty much the same final layout
as the 820.
Pete, wa2cwa

On Thu, 10 Aug 2006 05:09:03 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> I remember my elmer having a 520SE. That thing had a TVI problem fir
> 5 houses around, even with the harmonic filter on line. Dale
> eventually got a 820 and it solved the problem. He said it was the
> sweep tubes. Why is sweep tubes a problem?
>
> Clif <clif@...> wrote: --- In
> TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
> >
> > Hi Bill,
> >
> > The TS-520 is the very first model of the 520 series (and also the
>
> > first of the Kenwood hybrids).
>
> The 511 was a hybrid and before the 520
>
> Clif

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/416 - Release Date: 8/10/06

[Non-text portions of this message have been removed]

8668. Re: [TS-520_820_530_830] Trio TS520D?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 15:01:26 UTC
From: John Harp
Topic: 8666 Message: 8668

You speak of junk radios around the place. Do you by chance have any junk TS-830?

vk3bfa <woofferau@...> wrote: Hi All,
this morning, picked up a junker Trio TS520D - at casual glance, looks
like a TS520, ie no warc bands, a few cosmetic differences - anything
else of note about these? - its missing PA tubes, but from the 2 empty
sockets in the PA cage, assume it uses 6146's. Is the Kenwood TS520
manual cloes enought to use? - just idle questions, its joined a long
que of "junker" radios lying round the place...

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8669. Re: [TS-520_820_530_830] Trio TS520D?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 15:03:11 UTC
From: John Harp
Topic: 8666 Message: 8669

You speak of junk radios around the place. Do you by chance have any junk TS-830?

vk3bfa <woofferau@...> wrote: Hi All,
this morning, picked up a junker Trio TS520D - at casual glance, looks
like a TS520, ie no warc bands, a few cosmetic differences - anything
else of note about these? - its missing PA tubes, but from the 2 empty
sockets in the PA cage, assume it uses 6146's. Is the Kenwood TS520
manual cloes enought to use? - just idle questions, its joined a long
que of "junker" radios lying round the place...

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8670. Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 17:38:54 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8670

Anyone on 20 meters right now?

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

8671. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 17:54:40 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8671

KA2HHB on 14.283 right now....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: Yahoo Groups <ts-520_820_530_830@yahoogroups.com>
Sent: Saturday, August 12, 2006 1:38:54 PM
Subject: [TS-520_820_530_830] Anyone on 20 meters?

Anyone on 20 meters right now?

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8672. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 18:06:49 UTC
From: Tibor (Tibi) Zentai
Topic: 8670 Message: 8672

HA2MN on round 14060 but no DX window open for LP stns to East Coast yet.

********** REPLY SEPARATOR **********

On 2006.08.12. at 10:54 Ruben Echevarria wrote:

>KA2HHB on 14.283 right now....
>
>Ruben Echevarria
>ka2hhb_2000@...
>exracer1@...
>
>
>
>----- Original Message ----
>From: Ruben Echevarria <ka2hhb_2000@...>
>To: Yahoo Groups <ts-520_820_530_830@yahoogroups.com>
>Sent: Saturday, August 12, 2006 1:38:54 PM
>Subject: [TS-520_820_530_830] Anyone on 20 meters?
>
>Anyone on 20 meters right now?
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>[Non-text portions of this message have been removed]
>
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

8673. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 18:11:05 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8673

Made contact with W3CWC in Delaware, Maryland area.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Tibor (Tibi) Zentai <ha2mn@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 2:06:49 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

HA2MN on round 14060 but no DX window open for LP stns to East Coast yet.

********** REPLY SEPARATOR **********

On 2006.08.12. at 10:54 Ruben Echevarria wrote:

>KA2HHB on 14.283 right now....
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>
>
>----- Original Message ----
>From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
>To: Yahoo Groups <ts-520_820_530_ 830@yahoogroups. com>
>Sent: Saturday, August 12, 2006 1:38:54 PM
>Subject: [TS-520_820_ 530_830] Anyone on 20 meters?
>
>Anyone on 20 meters right now?
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>[Non-text portions of this message have been removed]
>
>
>
>
>[Non-text portions of this message have been removed]
>
>

>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar- hams.org

[Non-text portions of this message have been removed]

8674. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 18:14:14 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8674

14.283 Seems to be working out ...

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 2:11:05 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

Made contact with W3CWC in Delaware, Maryland area.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Tibor (Tibi) Zentai <ha2mn@freemail. hu>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 2:06:49 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

HA2MN on round 14060 but no DX window open for LP stns to East Coast yet.

********** REPLY SEPARATOR **********

On 2006.08.12. at 10:54 Ruben Echevarria wrote:

>KA2HHB on 14.283 right now....
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>
>
>----- Original Message ----
>From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
>To: Yahoo Groups <ts-520_820_ 530_ 830@yahoogroups. com>
>Sent: Saturday, August 12, 2006 1:38:54 PM
>Subject: [TS-520_820_ 530_830] Anyone on 20 meters?
>
>Anyone on 20 meters right now?
>
>Ruben Echevarria

>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>[Non-text portions of this message have been removed]
>
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar- hams.org

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8675. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 18:26:36 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8675

Worked K0GWD just now 14.283

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 2:14:14 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

14.283 Seems to be working out ...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 2:11:05 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

Made contact with W3CWC in Delaware, Maryland area.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Tibor (Tibi) Zentai <ha2mn@freemail. hu>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 2:06:49 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

HA2MN on round 14060 but no DX window open for LP stns to East Coast yet.

********** REPLY SEPARATOR **********

On 2006.08.12. at 10:54 Ruben Echevarria wrote:

>KA2HHB on 14.283 right now....
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>

>
>
>----- Original Message ----
>From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
>To: Yahoo Groups <ts-520_820_ 530_ 830@yahoogroups. com>
>Sent: Saturday, August 12, 2006 1:38:54 PM
>Subject: [TS-520_820_ 530_830] Anyone on 20 meters?
>
>Anyone on 20 meters right now?
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>[Non-text portions of this message have been removed]
>
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar- hams.org

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8676. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 18:40:38 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8676

Just monitoring right now. Conditions are not the best. Still on 14.283 .....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 2:26:36 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

Worked K0GWD just now 14.283

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 2:14:14 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

14.283 Seems to be working out ...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 2:11:05 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

Made contact with W3CWC in Delaware, Maryland area.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Tibor (Tibi) Zentai <ha2mn@freemail. hu>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 2:06:49 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

HA2MN on round 14060 but no DX window open for LP stns to East Coast yet.

********** REPLY SEPARATOR **********

On 2006.08.12. at 10:54 Ruben Echevarria wrote:

>KA2HHB on 14.283 right now....
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>
>
>----- Original Message ----
>From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
>To: Yahoo Groups <ts-520_820_ 530_ 830@yahoogroups. com>
>Sent: Saturday, August 12, 2006 1:38:54 PM
>Subject: [TS-520_820_ 530_830] Anyone on 20 meters?
>
>Anyone on 20 meters right now?
>
>Ruben Echevarria
>ka2hhb_2000@ yahoo.com
>exracer1@verizon. net
>
>[Non-text portions of this message have been removed]
>
>
>
>
>[Non-text portions of this message have been removed]
>
>
>
>
>Yahoo! Groups Links
>
>
>

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar- hams.org

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8677. Echolink

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 19:35:41 UTC
From: Ruben Echevarria
Topic: 8677 Message: 8677

KA2HHB monitoring Echolink ....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

8678. Re: [TS-520_820_530_830] Echolink

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 19:48:01 UTC
From: Peter A Markavage
Topic: 8677 Message: 8678

wa2cwa sitting by the pool working wi-fi.
Pete

On Sat, 12 Aug 2006 12:35:41 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@...> writes:
> KA2HHB monitoring Echolink ....
>
> Ruben Echevarria
> ka2hhb_2000@...

8679. Re: [TS-520_820_530_830] Echolink

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 19:55:17 UTC
From: Ruben Echevarria
Topic: 8677 Message: 8679

God Bless You ....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 3:48:01 PM
Subject: Re: [TS-520_820_530_830] Echolink

wa2cwa sitting by the pool working wi-fi.
Pete

On Sat, 12 Aug 2006 12:35:41 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@ yahoo.com> writes:
> KA2HHB monitoring Echolink ....
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com

[Non-text portions of this message have been removed]

8680. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 19:00:40 UTC
From: Kelly Maiden
Topic: 8670 Message: 8680

Ruben Echevarria wrote:

> Anyone on 20 meters right now?
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
>
> [Non-text portions of this message have been removed]
>
>

I'm not hearing anything on 14.283 right now. I managed to break a
pileup on 14.212 with an EA station on my first call, so I know I'm
being heard,
but the band is obviously funny today. I also discovered that I can't
hear anything with the computer on in my shack, so I have to work on
that issue. Hope to catch you later.
AB8SG

[Non-text portions of this message have been removed]

8681. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:13:18 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8681

I backed off after a while also. 2 stateside contacts after calling several CQ's. Didn't hear any DX.
I have to turn off the power on my computer speakers otherwise I start coming through them. I moved the coax around a bit and it calmed down but not enough to stop the interference. Well take, thanks for giving it a try ...73 de KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Kelly Maiden <kellym@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 3:00:40 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

Ruben Echevarria wrote:

> Anyone on 20 meters right now?
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> exracer1@verizon. net <mailto:exracer1% 40verizon. net>
>
> [Non-text portions of this message have been removed]
>
>

I'm not hearing anything on 14.283 right now. I managed to break a
pileup on 14.212 with an EA station on my first call, so I know I'm
being heard,
but the band is obviously funny today. I also discovered that I can't
hear anything with the computer on in my shack, so I have to work on
that issue. Hope to catch you later.
AB8SG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8682. Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:20:23 UTC
From: Ellen R
Topic: 8682 Message: 8682

Hi Everybody,

I see some of us have been busy this afternoon, while 'lil ol me was out delivering a couple of cats to their new home. I have my TS-820 fired up and ready to go. Anybody wanna QSO on 40 or 20?

Ellen - AF9J

8683. Re: [TS-520_820_530_830] Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:26:12 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8683

Pick a freq on 20 .....(General Portion)

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 5:20:23 PM
Subject: [TS-520_820_530_830] Looking for 40 or 20m QSOs

Hi Everybody,

I see some of us have been busy this afternoon, while 'lil ol me was
out delivering a couple of cats to their new home. I have my TS-820
fired up and ready to go. Anybody wanna QSO on 40 or 20?

Ellen - AF9J

[Non-text portions of this message have been removed]

8684. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:31:31 UTC
From: yash@aol.com
Topic: 8670 Message: 8684

Give me a frequency on 20 and I will give you a call on the 830
dale wt4t

-----Original Message-----
From: ka2hhb_2000@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sat, 12 Aug 2006 5:13 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

I backed off after a while also. 2 stateside contacts after calling several CQ's. Didn't hear any DX.
I have to turn off the power on my computer speakers otherwise I start coming through them. I moved the coax around a bit and it calmed down but not enough to stop the interference. Well take, thanks for giving it a try ...73 de KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Kelly Maiden <kellym@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 3:00:40 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

Ruben Echevarria wrote:

> Anyone on 20 meters right now?
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> exracer1@verizon. net <mailto:exracer1% 40verizon. net>
>
> [Non-text portions of this message have been removed]
>
>

I'm not hearing anything on 14.283 right now. I managed to break a
pileup on 14.212 with an EA station on my first call, so I know I'm
being heard,
but the band is obviously funny today. I also discovered that I can't
hear anything with the computer on in my shack, so I have to work on
that issue. Hope to catch you later.
AB8SG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

[Non-text portions of this message have been removed]

8685. Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:39:43 UTC
From: Ellen R
Topic: 8682 Message: 8685

Hi Dale & Reuben,

Lemme retune to 20m (it was dead whern I last listened)..... OK I'm
all set. I'm on 14.238 MHz. I'll start calling now.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> Pick a freq on 20 ....(General Portion)
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: Ellen R <ellenjoanne2003@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 12, 2006 5:20:23 PM
> Subject: [TS-520_820_530_830] Looking for 40 or 20m QSOs
>
> Hi Everybody,
>
> I see some of us have been busy this afternoon, while 'lil ol me
was
> out delivering a couple of cats to their new home. I have my TS-820
> fired up and ready to go. Anybody wanna QSO on 40 or 20?
>
> Ellen - AF9J
>
>
>
>
> [Non-text portions of this message have been removed]
>

8686. Re: [TS-520_820_530_830] Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:44:32 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8686

14.278 ....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: yash@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 5:31:31 PM
Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?

Give me a frequency on 20 and I will give you a call on the 830
dale wt4t

-----Original Message-----
From: ka2hhb_2000@ yahoo.com
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Sat, 12 Aug 2006 5:13 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

I backed off after a while also. 2 stateside contacts after calling several CQ's. Didn't hear any DX.
I have to turn off the power on my computer speakers otherwise I start coming through them. I moved the coax around a bit and it calmed down but not enough to stop the interference. Well take, thanks for giving it a try ...73 de KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

----- Original Message ----
From: Kelly Maiden <kellym@.... com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, August 12, 2006 3:00:40 PM
Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?

Ruben Echevarria wrote:

> Anyone on 20 meters right now?
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> exracer1@verizon. net <mailto:exracer1% 40verizon. net>
>
> [Non-text portions of this message have been removed]
>

>

I'm not hearing anything on 14.283 right now. I managed to break a
pileup on 14.212 with an EA station on my first call, so I know I'm
being heard,
but the band is obviously funny today. I also discovered that I can't
hear anything with the computer on in my shack, so I have to work on
that issue. Hope to catch you later.
AB8SG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

_____ _____ _____ _____ _____ _____ _
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on
demand. Always Free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8687. 20's a bust - I'm going to 40m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:59:28 UTC
From: Ellen R
Topic: 8687 Message: 8687

I'm going back to 40m. Nothing heard on 20m, other than a QRZ from a K0 station. I'm on 7.245 MHz if any body wants to try a QSO.

Ellen - AF9J

8688. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:58:26 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8688

S7 Noise level on 14.238 .....If you're out there I can't hear you......

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 5:39:43 PM
Subject: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Hi Dale & Reuben,

Lemme retune to 20m (it was dead whern I last listened)... .... OK I'm
all set. I'm on 14.238 MHz. I'll start calling now.

73,
Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Pick a freq on 20 ....(General Portion)
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: Ellen R <ellenjoanne2003@ ...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 5:20:23 PM
> Subject: [TS-520_820_ 530_830] Looking for 40 or 20m QSOs
>
> Hi Everybody,
>
> I see some of us have been busy this afternoon, while 'lil ol me
was
> out delivering a couple of cats to their new home. I have my TS-820
> fired up and ready to go. Anybody wanna QSO on 40 or 20?
>
> Ellen - AF9J
>

>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8689. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:03:28 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8689

Well there 9's, 3's, 8's & 4's on 20 right now. I'm on 14.283 which seems to be clean.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 5:39:43 PM
Subject: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Hi Dale & Reuben,

Lemme retune to 20m (it was dead whern I last listened)... .... OK I'm
all set. I'm on 14.238 MHz. I'll start calling now.

73,
Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Pick a freq on 20 .....(General Portion)
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: Ellen R <ellenjoanne2003@ ...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 5:20:23 PM
> Subject: [TS-520_820_ 530_830] Looking for 40 or 20m QSOs
>
> Hi Everybody,
>
> I see some of us have been busy this afternoon, while 'lil ol me
was
> out delivering a couple of cats to their new home. I have my TS-820
> fired up and ready to go. Anybody wanna QSO on 40 or 20?
>
> Ellen - AF9J
>

>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8690. Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:08:38 UTC
From: Ellen R
Topic: 8670 Message: 8690

Hi Reuben,

I'm not hearing you on 14.278.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> 14.278 ....
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: yash@...
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 12, 2006 5:31:31 PM
> Subject: Re: [TS-520_820_530_830] Anyone on 20 meters?
>
> Give me a frequency on 20 and I will give you a call on the 830
> dale wt4t
>
> -----Original Message-----
> From: ka2hhb_2000@ yahoo.com
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sat, 12 Aug 2006 5:13 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> I backed off after a while also. 2 stateside contacts after calling
several CQ's. Didn't hear any DX.
> I have to turn off the power on my computer speakers otherwise I
start coming through them.
> I moved the coax around a bit and it calmed down but not enough to
stop the interference.
> Well take, thanks for giving it a try ...73 de KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@... com>

> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 3:00:40 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> Ruben Echevarria wrote:
>
> > Anyone on 20 meters right now?
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> I'm not hearing anything on 14.283 right now. I managed to break a
> pileup on 14.212 with an EA station on my first call, so I know I'm
> being heard,
> but the band is obviously funny today. I also discovered that I
can't
> hear anything with the computer on in my shack, so I have to work
on
> that issue. Hope to catch you later.
> AB8SG
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
> ___________ _________ _________ _________ _________ _________ _
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

8691. Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:22:46 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8691

I heard AB8SG out there also

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 6:08:38 PM
Subject: [TS-520_820_530_830] Re: Anyone on 20 meters?

Hi Reuben,

I'm not hearing you on 14.278.

Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> 14.278 ....
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: yash@...
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 5:31:31 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> Give me a frequency on 20 and I will give you a call on the 830
> dale wt4t
>
> -----Original Message-----
> From: ka2hhb_2000@ yahoo.com
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sat, 12 Aug 2006 5:13 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> I backed off after a while also. 2 stateside contacts after calling
several CQ's. Didn't hear any DX.

> I have to turn off the power on my computer speakers otherwise I
start coming through them.
> I moved the coax around a bit and it calmed down but not enough to
stop the interference.
> Well take, thanks for giving it a try ...73 de KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@... com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 3:00:40 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> Ruben Echevarria wrote:
>
> > Anyone on 20 meters right now?
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> I'm not hearing anything on 14.283 right now. I managed to break a
> pileup on 14.212 with an EA station on my first call, so I know I'm
> being heard,
> but the band is obviously funny today. I also discovered that I
can't
> hear anything with the computer on in my shack, so I have to work
on
> that issue. Hope to catch you later.
> AB8SG
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
> ____________ _________ _________ _________ _________ _________ _
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
> [Non-text portions of this message have been removed]
>
>

>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8692. Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:17:26 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8692

Hi Ellen I'm there .... There is a DL2MWB station taking calls

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 6:08:38 PM
Subject: [TS-520_820_530_830] Re: Anyone on 20 meters?

Hi Reuben,

I'm not hearing you on 14.278.

Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> 14.278 ....
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: yash@...
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 5:31:31 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> Give me a frequency on 20 and I will give you a call on the 830
> dale wt4t
>
> -----Original Message-----
> From: ka2hhb_2000@ yahoo.com
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sat, 12 Aug 2006 5:13 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> I backed off after a while also. 2 stateside contacts after calling
several CQ's. Didn't hear any DX.

> I have to turn off the power on my computer speakers otherwise I
start coming through them.
> I moved the coax around a bit and it calmed down but not enough to
stop the interference.
> Well take, thanks for giving it a try ...73 de KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@... com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Saturday, August 12, 2006 3:00:40 PM
> Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
>
> Ruben Echevarria wrote:
>
> > Anyone on 20 meters right now?
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> I'm not hearing anything on 14.283 right now. I managed to break a
> pileup on 14.212 with an EA station on my first call, so I know I'm
> being heard,
> but the band is obviously funny today. I also discovered that I
can't
> hear anything with the computer on in my shack, so I have to work
on
> that issue. Hope to catch you later.
> AB8SG
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
> ____________ _________ _________ _________ _________ _________ _
> Check out AOL.com today. Breaking news, video search, pictures,
email and IM. All on demand. Always Free.
>
> [Non-text portions of this message have been removed]
>
>

>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8693. Re: 20's a bust - I'm going to 40m - a revision

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:11:01 UTC
From: Ellen R
Topic: 8687 Message: 8693

Ugh! Why must the General class portions always be QRM city on 75, 40, and 20? Ok, now I'm on 7260KHz. Hopefully, some guy anmed elmer won't step on my signal.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> I'm going back to 40m. Nothing heard on 20m, other than a QRZ from a
> K0 station. I'm on 7.245 MHz if any body wants to try a QSO.
>
> Ellen - AF9J
>

8694. Re: [TS-520_820_530_830] Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 21:39:16 UTC
From: Kelly Maiden
Topic: 8682 Message: 8694

Ellen R wrote:

> Hi Everybody,
>
> I see some of us have been busy this afternoon, while 'lil ol me was
> out delivering a couple of cats to their new home. I have my TS-820
> fired up and ready to go. Anybody wanna QSO on 40 or 20?
>
> Ellen - AF9J
>
>

Sure, give me a clear freq. on 20 and I'll give you a try in about 15 min. (Top of the hour would be better)
Kelly
AB8SG

[Non-text portions of this message have been removed]

8695. Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:27:49 UTC
From: Kelly Maiden
Topic: 8670 Message: 8695

Ruben Echevarria wrote:

> I heard AB8SG out there also
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
>
> ----- Original Message ----
> From: Ellen R <ellenjoanne2003@...
> <mailto:ellenjoanne2003%40sbcglobal.net>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, August 12, 2006 6:08:38 PM
> Subject: [TS-520_820_530_830] Re: Anyone on 20 meters?
>
> Hi Reuben,
>
> I'm not hearing you on 14.278.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > 14.278 ....
> >
> > Ruben Echevarria
> > ka2hhb_2000@ ...
> > exracer1@...
> >
> >
> >
> > ----- Original Message ----
> > From: yash@...
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, August 12, 2006 5:31:31 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > Give me a frequency on 20 and I will give you a call on the 830
> > dale wt4t
> >
> > -----Original Message-----
> > From: ka2hhb_2000@ yahoo.com
> > To: TS-520_820_530_ 830@yahoogroups. com

> > Sent: Sat, 12 Aug 2006 5:13 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > I backed off after a while also. 2 stateside contacts after calling
> several CQ's. Didn't hear any DX.
> > I have to turn off the power on my computer speakers otherwise I
> start coming through them.
> > I moved the coax around a bit and it calmed down but not enough to
> stop the interference.
> > Well take, thanks for giving it a try ...73 de KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com
> > exracer1@verizon. net
> >
> > ----- Original Message ----
> > From: Kelly Maiden <kellym@... com>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, August 12, 2006 3:00:40 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > Ruben Echevarria wrote:
> >
> > > Anyone on 20 meters right now?
> > >
> > > Ruben Echevarria
> > > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> >
> > I'm not hearing anything on 14.283 right now. I managed to break a
> > pileup on 14.212 with an EA station on my first call, so I know I'm
> > being heard,
> > but the band is obviously funny today. I also discovered that I
> can't
> > hear anything with the computer on in my shack, so I have to work
> on
> > that issue. Hope to catch you later.
> > AB8SG
> >
> > [Non-text portions of this message have been removed]
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > _____ _____ _____ _____ _____ _____ _
> > Check out AOL.com today. Breaking news, video search, pictures,

> email and IM. All on demand. Always Free.
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

Try 14.283? I'm hearing dx on 278.

8696. Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:40:22 UTC
From: Ruben Echevarria
Topic: 8670 Message: 8696

I give up....I'm going to put up the big antenna.....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Kelly Maiden <kellym@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 6:27:49 PM
Subject: Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Ruben Echevarria wrote:

> I heard AB8SG out there also
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> exracer1@verizon. net <mailto:exracer1% 40verizon. net>
>
> ----- Original Message ----
> From: Ellen R <ellenjoanne2003@ sbcglobal. net
> <mailto:ellenjoanne 2003%40sbcglobal .net>>
> To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> Sent: Saturday, August 12, 2006 6:08:38 PM
> Subject: [TS-520_820_ 530_830] Re: Anyone on 20 meters?
>
> Hi Reuben,
>
> I'm not hearing you on 14.278.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > 14.278 ....
> >
> > Ruben Echevarria
> > ka2hhb_2000@ ...
> > exracer1@...
> >
> >
> >
> > ----- Original Message ----

> > From: yash@...
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, August 12, 2006 5:31:31 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > Give me a frequency on 20 and I will give you a call on the 830
> > dale wt4t
> >
> > -----Original Message-----
> > From: ka2hhb_2000@ yahoo.com
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Sat, 12 Aug 2006 5:13 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > I backed off after a while also. 2 stateside contacts after calling
> several CQ's. Didn't hear any DX.
> > I have to turn off the power on my computer speakers otherwise I
> start coming through them.
> > I moved the coax around a bit and it calmed down but not enough to
> stop the interference.
> > Well take, thanks for giving it a try ...73 de KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com
> > exracer1@verizon. net
> >
> > ----- Original Message ----
> > From: Kelly Maiden <kellym@... com>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, August 12, 2006 3:00:40 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > Ruben Echevarria wrote:
> >
> > > Anyone on 20 meters right now?
> > >
> > > Ruben Echevarria
> > > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> >
> > I'm not hearing anything on 14.283 right now. I managed to break a
> > pileup on 14.212 with an EA station on my first call, so I know I'm
> > being heard,
> > but the band is obviously funny today. I also discovered that I
> can't
> > hear anything with the computer on in my shack, so I have to work

> on
> > that issue. Hope to catch you later.
> > AB8SG
> >
> > [Non-text portions of this message have been removed]
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > _____ _____ _____ _____ _____ _____ _
> > Check out AOL.com today. Breaking news, video search, pictures,
> email and IM. All on demand. Always Free.
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

Try 14.283? I'm hearing dx on 278.

[Non-text portions of this message have been removed]

8697. Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:44:26 UTC
From: Kelly Maiden
Topic: 8670 Message: 8697

Ruben Echevarria wrote:

> I give up....I'm going to put up the big antenna.....
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@... <mailto:kellym%40woh.rr.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, August 12, 2006 6:27:49 PM
> Subject: Re: [TS-520_820_530_830] Re: Anyone on 20 meters?
>
> Ruben Echevarria wrote:
>
> > I heard AB8SG out there also
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> >
> > ----- Original Message ----
> > From: Ellen R <ellenjoanne2003@ sbcglobal. net
> > <mailto:ellenjoanne 2003%40sbcglobal .net>>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > Sent: Saturday, August 12, 2006 6:08:38 PM
> > Subject: [TS-520_820_ 530_830] Re: Anyone on 20 meters?
> >
> > Hi Reuben,
> >
> > I'm not hearing you on 14.278.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> > <ka2hhb_2000@ ...> wrote:
> > >
> > > 14.278 ....
> > >
> > > Ruben Echevarria
> > > ka2hhb_2000@ ...
> > > exracer1@...

> > >
> > >
> > >
> > > ----- Original Message ----
> > > From: yash@...
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Sent: Saturday, August 12, 2006 5:31:31 PM
> > > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> > >
> > > Give me a frequency on 20 and I will give you a call on the 830
> > > dale wt4t
> > >
> > > -----Original Message-----
> > > From: ka2hhb_2000@ yahoo.com
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Sent: Sat, 12 Aug 2006 5:13 PM
> > > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> > >
> > > I backed off after a while also. 2 stateside contacts after calling
> > several CQ's. Didn't hear any DX.
> > > I have to turn off the power on my computer speakers otherwise I
> > start coming through them.
> > > I moved the coax around a bit and it calmed down but not enough to
> > stop the interference.
> > > Well take, thanks for giving it a try ...73 de KA2HHB
> > >
> > > Ruben Echevarria
> > > ka2hhb_2000@ yahoo.com
> > > exracer1@verizon. net
> > >
> > > ----- Original Message ----
> > > From: Kelly Maiden <kellym@... com>
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > Sent: Saturday, August 12, 2006 3:00:40 PM
> > > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> > >
> > > Ruben Echevarria wrote:
> > >
> > > > Anyone on 20 meters right now?
> > > >
> > > > Ruben Echevarria
> > > > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > > > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > > >
> > >
> > > I'm not hearing anything on 14.283 right now. I managed to break a
> > > pileup on 14.212 with an EA station on my first call, so I know I'm

> > > being heard,
> > > but the band is obviously funny today. I also discovered that I
> > can't
> > > hear anything with the computer on in my shack, so I have to work
> > on
> > > that issue. Hope to catch you later.
> > > AB8SG
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > > _____ _____ _____ _____ _____ _____ _
> > > Check out AOL.com today. Breaking news, video search, pictures,
> > email and IM. All on demand. Always Free.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> Try 14.283? I'm hearing dx on 278.
>
> [Non-text portions of this message have been removed]
>
>

Rueben, I'm still on 20, was calling CQ on 14.283 but now a maryland contest station is taken over. Pick a quiet spot around 14.280 and let me know where you are. I don't want to switch to 40 yet, it's too noisy here.

8698. Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:47:07 UTC
From: Ellen R
Topic: 8682 Message: 8698

How about 14.258 MHz?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Kelly Maiden <kellym@...>
wrote:
>
> Ellen R wrote:
>
> > Hi Everybody,
> >
> > I see some of us have been busy this afternoon, while 'lil ol me
was
> > out delivering a couple of cats to their new home. I have my TS-
820
> > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> >
> > Ellen - AF9J
> >
> >
>
> Sure, give me a clear freq. on 20 and I'll give you a try in about
15
> min. (Top of the hour would be better)
> Kelly
> AB8SG
>
>
> [Non-text portions of this message have been removed]
>

8699. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:58:52 UTC
From: Kelly Maiden
Topic: 8682 Message: 8699

Ellen R wrote:

> How about 14.258 MHz?
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Kelly Maiden <kellym@...>
> wrote:
> >
> > Ellen R wrote:
> >
> > > Hi Everybody,
> > >
> > > I see some of us have been busy this afternoon, while 'lil ol me
> was
> > > out delivering a couple of cats to their new home. I have my TS-
> 820
> > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > >
> > > Ellen - AF9J
> > >
> > >
> >
> > Sure, give me a clear freq. on 20 and I'll give you a try in about
> 15
> > min. (Top of the hour would be better)
> > Kelly
> > AB8SG
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

14.257 is a bit quieter here, I'll listen to both to see if I hear you.

8700. Re: [TS-520_820_530_830] Re: Anyone on 20 meters?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 22:35:42 UTC
From: Kelly Maiden
Topic: 8670 Message: 8700

Ruben Echevarria wrote:

> I heard AB8SG out there also
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
>
> ----- Original Message ----
> From: Ellen R <ellenjoanne2003@...
> <mailto:ellenjoanne2003%40sbcglobal.net>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, August 12, 2006 6:08:38 PM
> Subject: [TS-520_820_530_830] Re: Anyone on 20 meters?
>
> Hi Reuben,
>
> I'm not hearing you on 14.278.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > 14.278 ....
> >
> > Ruben Echevarria
> > ka2hhb_2000@ ...
> > exracer1@...
> >
> >
> >
> > ----- Original Message ----
> > From: yash@...
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, August 12, 2006 5:31:31 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > Give me a frequency on 20 and I will give you a call on the 830
> > dale wt4t
> >
> > -----Original Message-----
> > From: ka2hhb_2000@ yahoo.com
> > To: TS-520_820_530_ 830@yahoogroups. com

> > Sent: Sat, 12 Aug 2006 5:13 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > I backed off after a while also. 2 stateside contacts after calling
> several CQ's. Didn't hear any DX.
> > I have to turn off the power on my computer speakers otherwise I
> start coming through them.
> > I moved the coax around a bit and it calmed down but not enough to
> stop the interference.
> > Well take, thanks for giving it a try ...73 de KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com
> > exracer1@verizon. net
> >
> > ----- Original Message ----
> > From: Kelly Maiden <kellym@... com>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > Sent: Saturday, August 12, 2006 3:00:40 PM
> > Subject: Re: [TS-520_820_ 530_830] Anyone on 20 meters?
> >
> > Ruben Echevarria wrote:
> >
> > > Anyone on 20 meters right now?
> > >
> > > Ruben Echevarria
> > > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> >
> > I'm not hearing anything on 14.283 right now. I managed to break a
> > pileup on 14.212 with an EA station on my first call, so I know I'm
> > being heard,
> > but the band is obviously funny today. I also discovered that I
> can't
> > hear anything with the computer on in my shack, so I have to work
> on
> > that issue. Hope to catch you later.
> > AB8SG
> >
> > [Non-text portions of this message have been removed]
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > _____ _____ _____ _____ _____ _____ _
> > Check out AOL.com today. Breaking news, video search, pictures,

> email and IM. All on demand. Always Free.
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

I'm hearing lots of activity on 20 at 14.278, try us at 14.283.

8701. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 23:24:17 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8701

OK so where now? It's 7.23pm here. I'm on 20M. Give me a freq.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Kelly Maiden <kellym@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 6:58:52 PM
Subject: Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Ellen R wrote:

> How about 14.258 MHz?
>
> Ellen - AF9J
>
> --- In TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Kelly Maiden <kellym@...>
> wrote:
> >
> > Ellen R wrote:
> >
> > > Hi Everybody,
> > >
> > > I see some of us have been busy this afternoon, while 'lil ol me
> was
> > > out delivering a couple of cats to their new home. I have my TS-
> 820
> > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > >
> > > Ellen - AF9J
> > >
> > >
> >
> > Sure, give me a clear freq. on 20 and I'll give you a try in about
> 15
> > min. (Top of the hour would be better)
> > Kelly
> > AB8SG
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

>

14.257 is a bit quieter here, I'll listen to both to see if I hear you.

[Non-text portions of this message have been removed]

8702. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 23:29:09 UTC
From: Kelly Maiden
Topic: 8682 Message: 8702

Ruben Echevarria wrote:

> OK so where now? It's 7.23pm here. I'm on 20M. Give me a freq.
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@... <mailto:kellym%40woh.rr.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, August 12, 2006 6:58:52 PM
> Subject: Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs
>
> Ellen R wrote:
>
> > How about 14.258 MHz?
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Kelly Maiden
> <kellym@...>
> > wrote:
> > >
> > > Ellen R wrote:
> > >
> > > > Hi Everybody,
> > > >
> > > > I see some of us have been busy this afternoon, while 'lil ol me
> > was
> > > > out delivering a couple of cats to their new home. I have my TS-
> > 820
> > > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > > >
> > > > Ellen - AF9J
> > > >
> > > >
> > >
> > > Sure, give me a clear freq. on 20 and I'll give you a try in about
> > 15
> > > > min. (Top of the hour would be better)
> > > > Kelly
> > > > AB8SG

> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
>
> 14.257 is a bit quieter here, I'll listen to both to see if I hear you.
>
> [Non-text portions of this message have been removed]
>
>

AF9J and I gave up on 14. Can you QSY to 7.237?

8703. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 23:32:22 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8703

I'll QSY to 7.237 but may not be able to TX, my antenna is not doing well on 40 but I'll try

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Kelly Maiden <kellym@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 7:29:09 PM
Subject: Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Ruben Echevarria wrote:

> OK so where now? It's 7.23pm here. I'm on 20M. Give me a freq.
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> exracer1@verizon. net <mailto:exracer1% 40verizon. net>
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@.... com <mailto:kellym% 40woh.rr. com>>
> To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> Sent: Saturday, August 12, 2006 6:58:52 PM
> Subject: Re: [TS-520_820_ 530_830] Re: Looking for 40 or 20m QSOs
>
> Ellen R wrote:
>
> > How about 14.258 MHz?
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Kelly Maiden
> <kellym@...>
> > wrote:
> > >
> > > Ellen R wrote:
> > >
> > > > Hi Everybody,
> > > >
> > > > I see some of us have been busy this afternoon, while 'lil ol me
> > was
> > > > out delivering a couple of cats to their new home. I have my TS-

> > 820
> > > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > > >
> > > > Ellen - AF9J
> > > >
> > > >
> > >
> > > Sure, give me a clear freq. on 20 and I'll give you a try in about
> > 15
> > > min. (Top of the hour would be better)
> > > Kelly
> > > AB8SG
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
>
> 14.257 is a bit quieter here, I'll listen to both to see if I hear you.
>
> [Non-text portions of this message have been removed]
>
>

AF9J and I gave up on 14. Can you QSY to 7.237?

[Non-text portions of this message have been removed]

8704. Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 23:33:52 UTC
From: Gordon
Topic: 8682 Message: 8704

I'm listening on 14.283 for a few minutes. Then back to the WAE contest..
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> OK so where now? It's 7.23pm here. I'm on 20M. Give me a freq.
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
>
>
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 12, 2006 6:58:52 PM
> Subject: Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs
>
> Ellen R wrote:
>
> > How about 14.258 MHz?
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Kelly Maiden
<kellym@>
> > wrote:
> > >
> > > Ellen R wrote:
> > >
> > > > Hi Everybody,
> > > >
> > > > I see some of us have been busy this afternoon, while 'lil ol me
> > was
> > > > out delivering a couple of cats to their new home. I have my TS-
> > 820
> > > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > > >
> > > > Ellen - AF9J
> > > >
> > > >

> > >
> > > Sure, give me a clear freq. on 20 and I'll give you a try in about
> > 15
> > > min. (Top of the hour would be better)
> > > Kelly
> > > AB8SG
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
>
> 14.257 is a bit quieter here, I'll listen to both to see if I hear you.
>
>
>
>
> [Non-text portions of this message have been removed]
>

8705. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 23:53:45 UTC
From: Kelly Maiden
Topic: 8682 Message: 8705

Ruben Echevarria wrote:

> I'll QSY to 7.237 but may not be able to TX, my antenna is not doing
> well on 40 but I'll try
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
>
> ----- Original Message ----
> From: Kelly Maiden <kellym@... <mailto:kellym%40woh.rr.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, August 12, 2006 7:29:09 PM
> Subject: Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs
>
> Ruben Echevarria wrote:
>
> > OK so where now? It's 7.23pm here. I'm on 20M. Give me a freq.
> >
> > Ruben Echevarria
> > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> >
> > ----- Original Message ----
> > From: Kelly Maiden <kellym@... <mailto:kellym%40woh.rr>. com
> <mailto:kellym% 40woh.rr. com>>
> > To: TS-520_820_530_ 830@yahoogroups. com
> > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > Sent: Saturday, August 12, 2006 6:58:52 PM
> > Subject: Re: [TS-520_820_ 530_830] Re: Looking for 40 or 20m QSOs
> >
> > Ellen R wrote:
> >
> > > How about 14.258 MHz?
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_ 830@yahoogroups. com
> > > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Kelly Maiden
> > <kellym@...>
> > > wrote:
> > > >
> > > > Ellen R wrote:
> > > >

> > > > > Hi Everybody,
> > > > >
> > > > > I see some of us have been busy this afternoon, while 'lil ol me
> > > was
> > > > > out delivering a couple of cats to their new home. I have my TS-
> > > 820
> > > > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > > > >
> > > > > Ellen - AF9J
> > > > >
> > > > >
> > > >
> > > > Sure, give me a clear freq. on 20 and I'll give you a try in about
> > > 15
> > > > min. (Top of the hour would be better)
> > > > Kelly
> > > > AB8SG
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> >
> > 14.257 is a bit quieter here, I'll listen to both to see if I hear you.
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> AF9J and I gave up on 14. Can you QSY to 7.237?
>
> [Non-text portions of this message have been removed]
>
>

Rueben, we're going to try 7.158, but even that is busy at the moment.
are you on 40? If you find a clear freq, holler and we'll try you there.

8706. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 23:58:55 UTC
From: Kelly Maiden
Topic: 8682 Message: 8706

Kelly Maiden wrote:

> Ruben Echevarria wrote:
>
> > I'll QSY to 7.237 but may not be able to TX, my antenna is not doing
> > well on 40 but I'll try
> >
> > Ruben Echevarria
> > ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> <mailto:ka2hhb_2000%40yahoo.com>
> > exracer1@... <mailto:exracer1%40verizon.net>
> <mailto:exracer1%40verizon.net>
> >
> > ----- Original Message ----
> > From: Kelly Maiden <kellym@... <mailto:kellym%40woh.rr.com>
> <mailto:kellym%40woh.rr.com>>
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Saturday, August 12, 2006 7:29:09 PM
> > Subject: Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs
> >
> > Ruben Echevarria wrote:
> >
> > > OK so where now? It's 7.23pm here. I'm on 20M. Give me a freq.
> > >
> > > Ruben Echevarria
> > > ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> > > exracer1@verizon. net <mailto:exracer1% 40verizon. net>
> > >
> > > ----- Original Message ----
> > > From: Kelly Maiden <kellym@... <mailto:kellym%40woh.rr>
> <mailto:kellym%40woh.rr>. com
> > <mailto:kellym% 40woh.rr. com>>
> > > To: TS-520_820_530_ 830@yahoogroups. com
> > > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > > Sent: Saturday, August 12, 2006 6:58:52 PM
> > > Subject: Re: [TS-520_820_ 530_830] Re: Looking for 40 or 20m QSOs
> > >
> > > Ellen R wrote:
> > >
> > > > How about 14.258 MHz?
> > > >
> > > > Ellen - AF9J
> > > >

> > > > --- In TS-520_820_530_ 830@yahoogroups. com
> > > > <mailto:TS-520_ 820_530_830% 40yahoogroups. com>, Kelly Maiden
> > > <kellym@...>
> > > > wrote:
> > > > >
> > > > > Ellen R wrote:
> > > > >
> > > > > > Hi Everybody,
> > > > > >
> > > > > > I see some of us have been busy this afternoon, while 'lil ol me
> > > > was
> > > > > > out delivering a couple of cats to their new home. I have my TS-
> > > > 820
> > > > > > fired up and ready to go. Anybody wanna QSO on 40 or 20?
> > > > > >
> > > > > > Ellen - AF9J
> > > > > >
> > > > > >
> > > > > >
> > > > > Sure, give me a clear freq. on 20 and I'll give you a try in about
> > > > 15
> > > > > min. (Top of the hour would be better)
> > > > > Kelly
> > > > > AB8SG
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > > >
> > > 14.257 is a bit quieter here, I'll listen to both to see if I hear
> you.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > AF9J and I gave up on 14. Can you QSY to 7.237?
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> Rueben, we're going to try 7.158, but even that is busy at the moment.
> are you on 40? If you find a clear freq, holler and we'll try you there.
>
>

I'm going to have to try again later this evcning on 40, I'm being killed by spanish speakers everywhere I tune. Would be nice to chat with you all. I'm looking forward to some sun spot activity one of these days....
AB8SG,
73
Kelly

8707. Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 00:24:19 UTC
From: tad
Topic: 8682 Message: 8707

Is it just me or does it get somewha confusing when a reply contains a string of messages previously sent?

8708. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 01:20:48 UTC
From: Kelly Maiden
Topic: 8682 Message: 8708

tad wrote:

> Is it just me or does it get somewha confusing when a reply contains a
> string of messages previously sent?
>
>

No, it's not just you. It's probably annoying, but a quirk of most
(some?) email clients.
BTW, I'm going to try 40 meters again about 0300 Z.

[Non-text portions of this message have been removed]

8709. Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 01:22:25 UTC
From: Ken Gunton
Topic: 8682 Message: 8709

It's confusing to everyone. People should clean up their
responses before sending.

Ken W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of tad
Sent: Saturday, August 12, 2006 8:24 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Is it just me or does it get somewha confusing when a reply contains a
string of messages previously sent?

8710. 40 Meters Tonight

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 01:24:52 UTC
From: Ken Gunton
Topic: 8682 Message: 8710

Kelly, where on 40 will you be? Maybe you could give a
frequency and say whether you'll go up or down from
there if you run into QRM/N.

Ken W8ASA

No, it's not just you. It's probably annoying, but a quirk of most
(some?) email clients.
BTW, I'm going to try 40 meters again about 0300 Z.

8711. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 01:28:07 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8711

It can be confusing, but usually the response is on the top anyway.
If you're speaking of the many emails today between myself and others it was
because we were trying to establish a QSO on 20 meters so we kept replying
using the original post.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ken Gunton <ken@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 9:22:25 PM
Subject: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

It's confusing to everyone. People should clean up their
responses before sending.

Ken W8ASA

-----Original Message-----
From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of tad
Sent: Saturday, August 12, 2006 8:24 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: [TS-520_820_ 530_830] Re: Looking for 40 or 20m QSOs

Is it just me or does it get somewha confusing when a reply contains a
string of messages previously sent?

[Non-text portions of this message have been removed]

8712. Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 02:06:13 UTC
From: tad
Topic: 8682 Message: 8712

No I was not referring to the number of messages trying to coordinate a qso. I'm talking about leaving a string of messages on the email.
I "try" to remember to strip off all the old messages. Makes it much easier for everyone else to read.

8713. Re: [TS-520_820_530_830] 40 Meters Tonight

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 02:17:07 UTC
From: Kelly Maiden
Topic: 8682 Message: 8713

Ken Gunton wrote:

>
> Kelly, where on 40 will you be? Maybe you could give a
> frequency and say whether you'll go up or down from
> there if you run into QRM/N.
>
> Ken W8ASA
>
> No, it's not just you. It's probably annoying, but a quirk of most
> (some?) email clients.
> BTW, I'm going to try 40 meters again about 0300 Z.
>
>

I'm listening on 7.284. Just a bit of static, but we can give it a try?
Anyone find anything better, pop in here and we'll check it out.

8714. Re: Trio TS520D?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 08:09:19 UTC
From: vk3bfa
Topic: 8666 Message: 8714

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> You speak of junk radios around the place. Do you by chance have any junk TS-830?

No, sorry - this is my first excursion into Kenwood gear in a serious manner - I have an 830 and a 440 but they have been easy to fix without having to scavenge bits from dead sets.

Like the way Kenwoods are built - relatively easy to work on, well documented.

Mainly been doing Yaesu FT200's, FT101's as a relaxation/hobby thing - so a few of them as spares boxes..... and other more modern radios when I am not fixing domestic stuff for a living - fix radios semi-commercailly in my "spare" (hah!) time.....

Been fixing up a TS520 for what seems eternity now - SO many faults, one after the other - its been restoration rather than repair. Final smoke test failed when bandswitch burst into flames on TX load test - havent had time to get back into into it, but picked up the Trio TS520D as a possible sapres source.....

What do you need - anything specific?

Andrew VK3BFA.

8715. Shack in group photo closing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-12 07:18:29 UTC
From: tcreedon
Topic: 8715 Message: 8715

All,

AG4QP here, I am the owners of the station you see on the group homepage. I normally adhere to forum rules especially when they state "Please do not post "for sale" ads here." but hope y'all will make an exception. The entire shack, plus some newer£¬ post photo acquisitions, is up for grabs except for the ts-430 which needs some work before I sell it, most of the items are already or in the process of being listed on EHAM.net and QTH.com. If anyone is interested, drop me a line at ag4qp@.... Best wishes to all the "Glowing Kenwoods" aficionados.

TS-2000
TS-830
TS-520, VFO-520, SP-520
MC-60
MC-50
SM-220
AL-811

73¡¯s

Tom

8716. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 13:19:59 UTC
From: Walt Breining
Topic: 8682 Message: 8716

Just be sure that enough information is left so everybody knows what the reply is about.
Walt N9WB
----- Original Message -----
From: tad
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 7:24 PM
Subject: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Is it just me or does it get somewha confusing when a reply contains a
string of messages previously sent?

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/417 - Release Date: 8/11/06

[Non-text portions of this message have been removed]

8717. trimming replies etc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 12:22:54 UTC
From: Bill
Topic: 8717 Message: 8717

HI Gang,

Personally I like to see a bit of whatever someone is replying to; short memory here, a lot of groups and a lot of email to deal with.

We do need to trim them a bit however. I tend to get lazy and forget to do that sometimes.

On another subject, I have approved a couple of requests to post "for sale" items. I made the exception because AG4QP has allowed us to use a picture of his shack for the past year; also Ellen AF9J will be posting on a club radio for sale; Ellen is one of our moderators. Such are the perks!

Any questions, post me directly please.

Thanks and 73,

Bill K0ZL

8718. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 13:27:30 UTC
From: John Harp
Topic: 8682 Message: 8718

Walt I get the same way. Sometimes I cut some portion of the body down, just to send what is really needed.

Walt Breining <n9wb@...> wrote: Just be sure that enough information is left so everybody knows what the reply is about.
Walt N9WB
----- Original Message -----
From: tad
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 12, 2006 7:24 PM
Subject: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Is it just me or does it get somewha confusing when a reply contains a
string of messages previously sent?

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/417 - Release Date: 8/11/06

[Non-text portions of this message have been removed]

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8719. Re: [TS-520_820_530_830] Re: Trio TS520D?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 13:30:56 UTC
From: John Harp
Topic: 8666 Message: 8719

Ok, thnx. just checking to see who has parts. I run with two for now, and both are down this time.

vk3bfa <woofferau@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> You speak of junk radios around the place. Do you by chance have any junk TS-830?

No, sorry - this is my first excursion into Kenwood gear in a serious manner - I have an 830 and a 440 but they have been easy to fix without having to scavenge bits from dead sets.

Like the way Kenwoods are built - relatively easy to work on, well documented.

Mainly been doing Yaesu FT200's, FT101's as a relaxation/hobby thing - so a few of them as spares boxes..... and other more modern radios when I am not fixing domestic stuff for a living - fix radios semi-commercailly in my "spare" (hah!) time.....

Been fixing up a TS520 for what seems eternity now - SO many faults, one after the other - its been restoration rather than repair. Final smoke test failed when bandswitch burst into flames on TX load test - havent had time to get back into into it, but picked up the Trio TS520D as a possible sapres source.....

What do you need - anything specific?

Andrew VK3BFA.

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8720. Re: [TS-520_820_530_830] Re: Looking for 40 or 20m QSOs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 13:32:22 UTC
From: Ruben Echevarria
Topic: 8682 Message: 8720

Personally I'll try to keep the email question in mind when replying and posting back and forth.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
Recent Activity
7New Members
Visit Your Group
Y! GeoCities
Free Blogging
Share your views
with the world.
Y! Toolbar
Get it Free!
easy 1-click access
to your groups.
Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others..

[Non-text portions of this message have been removed]

8721. Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 14:01:57 UTC
From: Ruben Echevarria
Topic: 8721 Message: 8721

Concerning RF UNIT - X44-1360-00 for Kenwood TS830S
I'm still looking for bypass capacitor C74 Kenwood # CK45E2H103P
Also L36 RF Choke Kenwood # L40-4711-03 . 470 uh piece.
Emailed Mouser but they never responded. Maybe I'll have to call them direct.

I'm using the info that was posted by Joan VK5KYO.
Sounds pretty much like my problem. I have receive but no transmit.
And prior to my shipping it out for repairs that never happened, I had no ALC, now
I see I have ALC but it's pegged to the right of the meter on key up. And still no power
output.

Also I was thinking about obtaining a gold electroplating kit, in order to 24K gold plate
the contacts on the bandswitch. Was wondering if anyone has tried that.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

8722. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 14:56:44 UTC
From: jeryb77
Topic: 8721 Message: 8722

Kenwood still supplies these parts

CK45E2H103P CAP. 0.01UF 500V PS-430 $1.23

L40-4711-03 470UH FERRI-INDUCTOR $1.23

http://www.kenwoodparts.com

----- Original Message -----
From: "Ruben Echevarria" <ka2hhb_2000@...>
To: "Yahoo Groups" <ts-520_820_530_830@yahoogroups.com>
Sent: Sunday, August 13, 2006 10:01 AM
Subject: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

> Concerning RF UNIT - X44-1360-00 for Kenwood TS830S
> I'm still looking for bypass capacitor C74 Kenwood # CK45E2H103P
> Also L36 RF Choke Kenwood # L40-4711-03 . 470 uh piece.
> Emailed Mouser but they never responded. Maybe I'll have to call them
> direct.
>
> I'm using the info that was posted by Joan VK5KYO.
> Sounds pretty much like my problem. I have receive but no transmit.
> And prior to my shipping it out for repairs that never happened, I had no
> ALC, now
> I see I have ALC but it's pegged to the right of the meter on key up. And
> still no power
> output.
>
> Also I was thinking about obtaining a gold electroplating kit, in order to
> 24K gold plate
> the contacts on the bandswitch. Was wondering if anyone has tried that.
>
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>

>
>
>
>
>

8723. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 15:18:53 UTC
From: Ruben Echevarria
Topic: 8721 Message: 8723

I just looked at their catalog, plugged in the part numbers and they didn't come up. Maybe I'll call them.
Thanks.....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: jeryb77 <jeryb77@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 10:56:44 AM
Subject: Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Kenwood still supplies these parts

CK45E2H103P CAP. 0.01UF 500V PS-430 $1.23

L40-4711-03 470UH FERRI-INDUCTOR $1.23

http://www.kenwoodp arts.com

----- Original Message -----
From: "Ruben Echevarria" <ka2hhb_2000@ yahoo.com>
To: "Yahoo Groups" <ts-520_820_530_ 830@yahoogroups. com>
Sent: Sunday, August 13, 2006 10:01 AM
Subject: [TS-520_820_ 530_830] Wanted Parts: Second Posting For TS830S

> Concerning RF UNIT - X44-1360-00 for Kenwood TS830S
> I'm still looking for bypass capacitor C74 Kenwood # CK45E2H103P
> Also L36 RF Choke Kenwood # L40-4711-03 . 470 uh piece.
> Emailed Mouser but they never responded. Maybe I'll have to call them
> direct.
>
> I'm using the info that was posted by Joan VK5KYO.
> Sounds pretty much like my problem. I have receive but no transmit.
> And prior to my shipping it out for repairs that never happened, I had no
> ALC, now
> I see I have ALC but it's pegged to the right of the meter on key up. And
> still no power
> output.
>
> Also I was thinking about obtaining a gold electroplating kit, in order to
> 24K gold plate
> the contacts on the bandswitch. Was wondering if anyone has tried that.
>
>

> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

[Non-text portions of this message have been removed]

8724. TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 16:44:47 UTC
From: tetrodehead
Topic: 66 Message: 8724

Hi all,
Anyone know the equivalent of SV-03 diode, D13 and D14 on the counter mixer board?
Thanks
Dave F4EYK

8725. Looking for 20m QSO's - Sunday - 1700 UTC - 14.273 +/- 5 kc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 16:47:20 UTC
From: jimford80041
Topic: 8725 Message: 8725

I've got the TS-830S all fired up and ready to go, and will give a shout around 1700UTC, 14.273.

That frequency was choosen because it is 10 above the FMCA/Collins freq and 10 kc below the Vintage SSB net.

Jim - KG0PP

8726. Re: Looking for 20m QSO's - Sunday - 1700 UTC - 14.273 +/- 5 kc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 16:50:44 UTC
From: Ellen R
Topic: 8725 Message: 8726

Bummer!

I wish I could Jim, but I have to help out at a local animal shelter
for 4 hours or so. I won't be back until 2130 or 2200z.

73,
Ellen - aF9J

--- In TS-520_820_530_830@yahoogroups.com, "jimford80041" <ejim@...>
wrote:
>
> I've got the TS-830S all fired up and ready to go, and will give a
> shout around 1700UTC, 14.273.
>
> That frequency was choosen because it is 10 above the FMCA/Collins
> freq and 10 kc below the Vintage SSB net.
>
> Jim - KG0PP
>

8727. Re: [TS-520_820_530_830] Looking for 20m QSO's - Sunday - 1700 UTC - 14.273 +/- 5 kc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 16:51:34 UTC
From: Ruben Echevarria
Topic: 8725 Message: 8727

Will be listening ....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: jimford80041 <ejim@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 12:47:20 PM
Subject: [TS-520_820_530_830] Looking for 20m QSO's - Sunday - 1700 UTC - 14.273 +/- 5 kc

I've got the TS-830S all fired up and ready to go, and will give a
shout around 1700UTC, 14.273.

That frequency was choosen because it is 10 above the FMCA/Collins
freq and 10 kc below the Vintage SSB net.

Jim - KG0PP

[Non-text portions of this message have been removed]

8728. Enough Kenwood Nets

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 17:01:53 UTC
From: Bob Gass
Topic: 8725 Message: 8728

I subscribed to this group to learn more about maintaining my classic Kenwood radio, not to read post after post about how someone can't make contact on 20 or 40 meters. May I suggest one of the instant messaging programs, a chatroom, or an IRC server for you guys so you can chat back and forth if you can't talk to each other on your radios instead of clogging my mailbox with a lot of messages I don't have to hit the delete key on?

Visit My Homepage,
http://www.n4fv.net

[Non-text portions of this message have been removed]

8729. Files section

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 17:08:20 UTC
From: tetrodehead
Topic: 8729 Message: 8729

Hi Bill / Moderators / Editors,
How about deleting some of the nice photos to make room for more repair docs to be posted?
73 Dave F4EYK

8730. Re: [TS-520_820_530_830] Enough Kenwood Nets

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 17:12:12 UTC
From: Ruben Echevarria
Topic: 8725 Message: 8730

OK let's take a vote.....
Who wants to stop Kenwood Net posts?
Let me check my delete key.....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Bob Gass <n4fv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:01:53 PM
Subject: [TS-520_820_530_830] Enough Kenwood Nets

I subscribed to this group to learn more about maintaining my classic Kenwood radio, not to read post after post about how someone can't make contact on 20 or 40 meters. May I suggest one of the instant messaging programs, a chatroom, or an IRC server for you guys so you can chat back and forth if you can't talk to each other on your radios instead of clogging my mailbox with a lot of messages I don't have to hit the delete key on?

Visit My Homepage,
http://www.n4fv. net

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8731. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 17:35:14 UTC
From: Peter A Markavage
Topic: 8721 Message: 8731

Just plugged both part numbers into the East Coast(kenwood) parts and
both are shown to be available.
Pete, wa2cwa

On Sun, 13 Aug 2006 08:18:53 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@...> writes:
> I just looked at their catalog, plugged in the part numbers and they
> didn't come up. Maybe I'll call them.
> Thanks.....
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...

> Kenwood still supplies these parts
>
> CK45E2H103P CAP. 0.01UF 500V PS-430 $1.23
>
> L40-4711-03 470UH FERRI-INDUCTOR $1.23

8732. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 17:47:06 UTC
From: Ruben Echevarria
Topic: 8721 Message: 8732

Thanks Peter I'll take another look .....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:35:14 PM
Subject: Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Just plugged both part numbers into the East Coast(kenwood) parts and
both are shown to be available.
Pete, wa2cwa

On Sun, 13 Aug 2006 08:18:53 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@ yahoo.com> writes:
> I just looked at their catalog, plugged in the part numbers and they
> didn't come up. Maybe I'll call them.
> Thanks.....
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net

> Kenwood still supplies these parts
>
> CK45E2H103P CAP. 0.01UF 500V PS-430 $1.23
>
> L40-4711-03 470UH FERRI-INDUCTOR $1.23

[Non-text portions of this message have been removed]

8733. Re: Looking for 20m QSO's - Sunday - 1700 UTC - 14.273 +/- 5 kc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 19:00:55 UTC
From: jimford80041
Topic: 8725 Message: 8733

Here is my report on activity:

14.273 turned out to be a bit crowded as there is a group at 14.275
with strong signals. Moved down to 14.272 and started calling. The
turn out was better than anticipated.

KI0KM called. Bob is running a TS-520S
KF6ZOL stopped by and chatted for quite some time.
Mike is running a TS-850S
K6KOI, John was using his Orion but also uses a tube gear,
a Swan 700cx.
WA5BDR said hello. Jim is one of the net control stations
for the Swan net at 14.251. He also uses a TS-120.
Today he was using his 700cx
N0FM jumped in to report he has a TS-570
KC0MKS was using a TS-520S.
W6FOG called in marine mobile from SanFrancisco bay,
on his Icom.

Ruben, I listened hard for you but did not hear much from the east.
The band really was very poor, lots of fading and noise. Of course,
Sunday is a very busy day for 20 meters.

The operation lasted about an hour before the band just completely
went to pot.

What a great time. The Kenwoods sounded great. I hope someone can do
this next Sunday.

Jim ... KG0PP
>
> I've got the TS-830S all fired up and ready to go, and will give a
> shout around 1700UTC, 14.273.
>
> That frequency was choosen because it is 10 above the FMCA/Collins
> freq and 10 kc below the Vintage SSB net.
>
> Jim - KG0PP
>

8734. Re: [TS-520_820_530_830] Re: Looking for 20m QSO's - Sunday - 1700 UTC - 14.273 +/- 5 kc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 19:09:04 UTC
From: Ruben Echevarria
Topic: 8725 Message: 8734

Real good Jim, happy to hear that you had a good time.
14.275 was a bit crowded but I left it on 14.273.
I seem to be picking up some noise on that freq. Could be my computer.
BTW I'm still there om 14.273 ....

Best 73...Ruben

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

'___
OK I deleted the original email.... :)

[Non-text portions of this message have been removed]

8735. Re: [TS-520_820_530_830] Enough Kenwood Nets

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 21:44:29 UTC
From: gjcollins@cox.net
Topic: 8725 Message: 8735

I'll vote. The "Net" postings have gotten out of hand. I think Bob's suggestion of taking it somewhere else is a very good idea.

George, KC1V

----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:12 PM
Subject: Re: [TS-520_820_530_830] Enough Kenwood Nets

OK let's take a vote.....
Who wants to stop Kenwood Net posts?
Let me check my delete key.....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Bob Gass <n4fv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:01:53 PM
Subject: [TS-520_820_530_830] Enough Kenwood Nets

I subscribed to this group to learn more about maintaining my classic Kenwood radio, not to read post after post about how someone can't make contact on 20 or 40 meters. May I suggest one of the instant messaging programs, a chatroom, or an IRC server for you guys so you can chat back and forth if you can't talk to each other on your radios instead of clogging my mailbox with a lot of messages I don't have to hit the delete key on?

Visit My Homepage,
http://www.n4fv. net

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/417 - Release Date: 8/11/2006

[Non-text portions of this message have been removed]

8736. Re: [TS-520_820_530_830] TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 22:08:38 UTC
From: John Harp
Topic: 66 Message: 8736

You can order them thru Sierra IC Inc.(631) 325-9097. They don't have a data sheet for them, but they do carry the part. ifound it on the web for you.

tetrodehead <dave.crooks@...> wrote: Hi all,
Anyone know the equivalent of SV-03 diode, D13 and D14 on the counter
mixer board?
Thanks
Dave F4EYK

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8737. Re: Enough Kenwood Nets -from the person who started this whole thing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 23:41:43 UTC
From: Ellen R
Topic: 8725 Message: 8737

Hi Everybody,

Since I started this whole thing, I'll end it. As of this time. The whole net idea is put on hold. Propoagation, and QRM on 20m (and 40m for that matter) have made it a no go. Also, those of us looking for QSOs between each other, are getting a bit out of hand with posts to this effect. Some of us are looking into alternative means for connecting up with each other for Kenwood hybrid to Kenwood hybrid QSOs. Hang in there people. Many thanks to everybody, who gave the whole idea a try. :)

73,
Ellen, AF9J
Moderator - Kenwood TS-520_820_530_830

P.S. - just a little food for thought. Getting these rigs up and running, and keeping them running is cool. I can't thank people in this group enough for helping me to get my TS-820 up to snuff. Just remember, what is equally cool, is getting some use out of them too. They were made to be used, not just fixed up, and admired. Be cool everybody. :)

8738. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 23:42:21 UTC
From: John Harp
Topic: 8721 Message: 8738

They have an 800 number Reuben. (800) 346-6873. You can order online and check the order status as well. http://www.mouser.com . You can even see thier catalog.

Ruben Echevarria <ka2hhb_2000@...> wrote: Concerning RF UNIT - X44-1360-00 for Kenwood TS830S
I'm still looking for bypass capacitor C74 Kenwood # CK45E2H103P
Also L36 RF Choke Kenwood # L40-4711-03 . 470 uh piece.
Emailed Mouser but they never responded. Maybe I'll have to call them direct.

I'm using the info that was posted by Joan VK5KYO.
Sounds pretty much like my problem. I have receive but no transmit.
And prior to my shipping it out for repairs that never happened, I had no ALC, now I see I have ALC but it's pegged to the right of the meter on key up. And still no power output.

Also I was thinking about obtaining a gold electroplating kit, in order to 24K gold plate the contacts on the bandswitch. Was wondering if anyone has tried that.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8739. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 23:47:45 UTC
From: Ruben Echevarria
Topic: 8721 Message: 8739

OK John thanks for the help. I'll be giving them a call. Or maybe East Coast first. Either way
I'll get the pieces. Thanks Again....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

8740. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-13 23:59:24 UTC
From: John Harp
Topic: 8721 Message: 8740

Hey so long as you get it that's what counts. I jusy put the part info into google and that's what came up. you might ask them about the inductor too. Some times the person you talk to may have a suggestion. Somthings are harder to find. I'm looking for a power transformer for one of my TS-830's anybody know of one? I may have to buy a third rig at soon just to keep on the air.

Ruben Echevarria <ka2hhb_2000@...> wrote: OK John thanks for the help. I'll be giving them a call. Or maybe East Coast first. Either way
I'll get the pieces. Thanks Again....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8741. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 00:14:59 UTC
From: Ruben Echevarria
Topic: 8721 Message: 8741

I just bought another TS830S thru EBay. Waitong for it to show up
Let's what happens. Maybe it'll be a brick..hihi
I still want to repair the one I have here. I'll keep that transformer in mind.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 7:59:24 PM
Subject: Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Hey so long as you get it that's what counts. I jusy put the part info into google and that's what came up. you might ask them about the inductor too. Some times the person you talk to may have a suggestion. Somthings are harder to find. I'm looking for a power transformer for one of my TS-830's anybody know of one? I may have to buy a third rig at soon just to keep on the air.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: OK John thanks for the help. I'll be giving them a call. Or maybe East Coast first. Either way
I'll get the pieces. Thanks Again....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8742. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 02:42:38 UTC
From: John Harp
Topic: 8721 Message: 8742

I was just down on E-Bay looking at a transformer from a 520 for sale. $12.48. I hear that the same transformers are used in 530 as well, but I'm not sure what else. 7 hours, 7 minutes.

Ruben Echevarria <ka2hhb_2000@...m> wrote: I just bought another TS830S thru EBay. Waitong for it to show up
Let's what happens. Maybe it'll be a brick..hihi
I still want to repair the one I have here. I'll keep that transformer in mind.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 7:59:24 PM
Subject: Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Hey so long as you get it that's what counts. I jusy put the part info into google and that's what came up. you might ask them about the inductor too. Some times the person you talk to may have a suggestion. Somthings are harder to find. I'm looking for a power transformer for one of my TS-830's anybody know of one? I may have to buy a third rig at soon just to keep on the air.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: OK John thanks for the help. I'll be giving them a call. Or maybe East Coast first. Either way
I'll get the pieces. Thanks Again....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8743. Over Powered or ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 04:43:34 UTC
From: AllanKB5DOH
Topic: 8743 Message: 8743

Hi, To one and all I have a TS-140s and I think a major problem about a Month ago I was on 10m at about 28.315 and while listening as I was involved on a project radio some people with good strong S-9 at first were talking and sounded slightly off freq., they sounded like they were getting close and as I reached to lower volume the signal pegged the meter, I turned off quick but when I turned back on later rec. and tx was very poor to nil. Anyone have any thoughts as to what happened to my 140 ? I thing I got over powered by High Wattage and from the talk they were doing were using 11m radios with big wattage amps I could tell they were moving mobil.
Now need to fix to get back on the air.

Thanks from Allan = kb5doh

8744. Re: [TS-520_820_530_830] Re: Enough Kenwood Nets -from the person who started this whole thing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 07:48:10 UTC
From: Dave and Loraine
Topic: 8725 Message: 8744

Well done Ellen. You're a star.
Thanks for trying a good idea.
73 Dave F4EYK

8745. Re: Enough Kenwood Nets -from the person who started this whole thing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 13:39:06 UTC
From: Ellen R
Topic: 8725 Message: 8745

No Problem Dave. :)

73,
ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine"
<dave.crooks@...> wrote:
>
> Well done Ellen. You're a star.
> Thanks for trying a good idea.
> 73 Dave F4EYK
>

8746. Re: [TS-520_820_530_830] Over Powered or ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 15:24:47 UTC
From: John Harp
Topic: 8743 Message: 8746

If such were the case, as to being a front end overload, I would seriously consider putting a static bleed resistor somewhere along those lines. It might help keep that from occuring again. That's one thing to consider, before you use that antenna again. it helps with static of nearby lightning strikes on larger antennas. It may keep this from reoccurring. I have one for my vertical out in the back yard. Static crashes can overload thefront end and may do damage too. Check your transmission lines are still good.
The other thong I suggest is check the AC voltage to the line is stable. It got my TS-830 once.
All that for the isolation from other sources. Making sure of these items isa good measure toward keeping a reocurrance to a minimum.
I must admit I have heard of liears on CB radios (even)mobile, damaging the CB's in other cars.
These measures I do suggest toward minimizing the reoccurance of any such issue. Now, yes, static is not normally such a big deal on a small antenna, but I have seen it occur on larger ones. It may help if a large amount of energy comes down the line again, no matter what the energy is.

AllanKB5DOH <a1mc@...> wrote:
Hi, To one and all I have a TS-140s and I think a major problem about a
Month ago I was on 10m at about 28.315 and while listening as I was
involved on a project radio some people with good strong S-9 at first
were talking and sounded slightly off freq., they sounded like they
were getting close and as I reached to lower volume the signal pegged
the meter, I turned off quick but when I turned back on later rec. and
tx was very poor to nil. Anyone have any thoughts as to what happened
to my 140 ? I thing I got over powered by High Wattage and
from the talk they were doing were using 11m radios with big wattage
amps I could tell they were moving mobil.
Now need to fix to get back on the air.

Thanks from Allan = kb5doh

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8747. If Anyone Is Interested .....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 15:31:05 UTC
From: Ruben Echevarria
Topic: 8747 Message: 8747

Hi, I opened a Kenwood group on www.paltalk.com , it's a chat and video room.
So if you guys and ladies want to be heard and carry on a conversation concerning
our interests, it will be open Monday thru Friday. So if you have a mic plug it in
and we'll talk. Just download the Paltalk program and log in. It's listed under "Sports &
Hobbies"
I'll have it up for a week or two and if it works out we'll keep it up.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

8748. Re: Enough Kenwood Nets -from the person who started this whole thing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 16:46:54 UTC
From: jimford80041
Topic: 8725 Message: 8748

Ellen,

You did a great job attempting to start a chat net for Kenwood vintage rigs. This Yahoo group has helped me tremendously in getting my TS-520/530 and TS-820/830 rigs running properly. The final measure of success is in putting the rigs on the air, which you attempted to organize.

There certainly other vintage nets on the air for Hammarlund, Collins, Swan, Drake, Heathkit, and other brands. It is time for a Kenwood net too.

The TS_520_530_820_830 board may not be the best place to make arrangements, but is all we have for now. I certainly do not want to give up on this project. Checking in to other vintage nets for the last three years with my Kenwood gear has been ok, but is not nearly as rewarding as meeting with other Kenwood users.

It was a pleasure to hear the other Kenwood folks on the air Sunday!

I apologize in advance to those who are offended by this posting.

Jim KG0PP

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:

8749. Re: [TS-520_820_530_830] If Anyone Is Interested .....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 17:16:10 UTC
From: John Harp
Topic: 8747 Message: 8749

I think you might have a good idea there Reuben. It's a good mode to try and chase the net idea. A chat room may be just the channel to send some of the extra communications that don't seem suitable up here. Good place for the group to chase QSO's together too.

By the way. I got one TS-830 up last nite, finally. Thanks for the info for the person to try for a power transformer. I'll check into it.

Ruben Echevarria <ka2hhb_2000@yahoo.com> wrote:
Hi, I opened a Kenwood group on www.paltalk.com , it's a chat and video room.
So if you guys and ladies want to be heard and carry on a conversation concerning
our interests, it will be open Monday thru Friday. So if you have a mic plug it in
and we'll talk. Just download the Paltalk program and log in. It's listed under "Sports & Hobbies"
I'll have it up for a week or two and if it works out we'll keep it up.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8750. Re: [TS-520_820_530_830] Re: Enough Kenwood Nets -from the person who started this whole thing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 17:20:40 UTC
From: John Harp
Topic: 8725 Message: 8750

Ellen, Reuben got us a chat area at www.paltalk.com. You might find it better to chase the net idea from there. Just a suggestion.

Ellen R <ellenjoanne2003@...> wrote: No Problem Dave. :)

73,
ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Dave and Loraine"
<dave.crooks@...> wrote:
>
> Well done Ellen. You're a star.
> Thanks for trying a good idea.
> 73 Dave F4EYK
>

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8751. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 17:19:56 UTC
From: Max Harelik
Topic: 8721 Message: 8751

John, do you have a listing number? I coudn't find it (and I have a 530
with a smoked xfmr). Thanks.

73,
Max, K5OVW

John Harp wrote:

> I was just down on E-Bay looking at a transformer from a 520 for sale.
> $12.48. I hear that the same transformers are used in 530 as well, but
> I'm not sure what else. 7 hours, 7 minutes.
>

8752. Re: [TS-520_820_530_830] If Anyone Is Interested .....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 17:28:11 UTC
From: Ruben Echevarria
Topic: 8747 Message: 8752

Thanks John, just trying to give it a chance. That's what it's all about.
I don't have a problem with the use of the room as a go between.
Hope you can find that xformer. I'm waiting for my new/used TS830S
to show up. Hopefully in a few days. I just ordered the parts that I was looking
for from East Coast Transistor. 1 Number has to come from Japan. But I can
wait.
Hanging On Paltalk .....73 de Ruben

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 14, 2006 1:16:10 PM
Subject: Re: [TS-520_820_530_830] If Anyone Is Interested ......

I think you might have a good idea there Reuben. It's a good mode to try and chase the net idea. A chat room may be just the channel to send some of the extra communications that don't seem suitable up here. Good place for the group to chase QSO's together too.

By the way. I got one TS-830 up last nite, finally. Thanks for the info for the person to try for a power transformer. I'll check into it.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
Hi, I opened a Kenwood group on www.paltalk. com , it's a chat and video room.
So if you guys and ladies want to be heard and carry on a conversation concerning
our interests, it will be open Monday thru Friday. So if you have a mic plug it in
and we'll talk. Just download the Paltalk program and log in. It's listed under "Sports & Hobbies"
I'll have it up for a week or two and if it works out we'll keep it up.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8753. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 17:38:28 UTC
From: John Harp
Topic: 8721 Message: 8753

The transformer says LOI-8I06-15. I burned one of the 120 primaries with a power surge in the shack. They say that the same transformer was used in the 530 and the 830 and one other one but I'm not sure what it was. I'm guessing the 820.

Max Harelik <mharelik@...> wrote: John, do you have a listing number? I coudn't find it (and I have a 530
with a smoked xfmr). Thanks.

73,
Max, K5OVW

John Harp wrote:

> I was just down on E-Bay looking at a transformer from a 520 for sale.
> $12.48. I hear that the same transformers are used in 530 as well, but
> I'm not sure what else. 7 hours, 7 minutes.
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8754. Re: [TS-520_820_530_830] If Anyone Is Interested .....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 17:41:31 UTC
From: John Harp
Topic: 8747 Message: 8754

Thanks Reuben. One of the tricks I found was to put the part number into a search engine and see what comes up. In your case I used Google. Then you just wander the pages till you find what your looking for.

See you at the chat.

Ruben Echevarria <ka2hhb_2000@...> wrote:
Thanks John, just trying to give it a chance. That's what it's all about.
I don't have a problem with the use of the room as a go between.
Hope you can find that xformer. I'm waiting for my new/used TS830S
to show up. Hopefully in a few days. I just ordered the parts that I was looking
for from East Coast Transistor. 1 Number has to come from Japan. But I can
wait.
Hanging On Paltalk .....73 de Ruben

Ruben Echevarria
ka2hhb_2000@...
exracer1@verizon.net
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 14, 2006 1:16:10 PM
Subject: Re: [TS-520_820_530_830] If Anyone Is Interested ......

I think you might have a good idea there Reuben. It's a good mode to try and chase the net idea. A chat room may be just the channel to send some of the extra communications that don't seem suitable up here. Good place for the group to chase QSO's together too.

By the way. I got one TS-830 up last nite, finally. Thanks for the info for the person to try for a power transformer. I'll check into it.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
Hi, I opened a Kenwood group on www.paltalk. com , it's a chat and video room.
So if you guys and ladies want to be heard and carry on a conversation concerning
our interests, it will be open Monday thru Friday. So if you have a mic plug it in
and we'll talk. Just download the Paltalk program and log in. It's listed under "Sports &
Hobbies"
I'll have it up for a week or two and if it works out we'll keep it up.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8755. Re: Over Powered or ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 18:14:07 UTC
From: AllanKB5DOH
Topic: 8743 Message: 8755

Thanks John I will put this information in file also FYI I have 3-Elem on flat setup 10m and AC power line radio is on surge protecter.
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> If such were the case, as to being a front end overload, I would seriously consider putting a static bleed resistor somewhere along those lines. It might help keep that from occuring again. That's one thing to consider, before you use that antenna again. it helps with static of nearby lightning strikes on larger antennas. It may keep this from reoccurring. I have one for my vertical out in the back yard. Static crashes can overload thefront end and may do damage too. Check your transmission lines are still good.
> The other thong I suggest is check the AC voltage to the line is stable. It got my TS-830 once.
> All that for the isolation from other sources. Making sure of these items isa good measure toward keeping a reocurrance to a minimum.
> I must admit I have heard of liears on CB radios (even)mobile, damaging the CB's in other cars.
> These measures I do suggest toward minimizing the reoccurance of any such issue. Now, yes, static is not normally such a big deal on a small antenna, but I have seen it occur on larger ones. It may help if a large amount of energy comes down the line again, no matter what the energy is.
>
> AllanKB5DOH <a1mc@...> wrote:
> Hi, To one and all I have a TS-140s and I think a major problem about a
> Month ago I was on 10m at about 28.315 and while listening as I was
> involved on a project radio some people with good strong S-9 at first
> were talking and sounded slightly off freq., they sounded like they
> were getting close and as I reached to lower volume the signal pegged
> the meter, I turned off quick but when I turned back on later rec. and
> tx was very poor to nil. Anyone have any thoughts as to what happened
> to my 140 ? I thing I got over powered by High Wattage and
> from the talk they were doing were using 11m radios with big wattage
> amps I could tell they were moving mobil.
> Now need to fix to get back on the air.
>

> Thanks from Allan = kb5doh
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>

8756. Re: [TS-520_820_530_830] Enough Kenwood Nets

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-14 22:51:49 UTC
From: Tim Harrington
Topic: 8725 Message: 8756

I agree

Tim
KD2OE

gjcollins@... wrote:
I'll vote. The "Net" postings have gotten out of hand. I think Bob's suggestion of taking it somewhere else is a very good idea.

George, KC1V

----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:12 PM
Subject: Re: [TS-520_820_530_830] Enough Kenwood Nets

OK let's take a vote.....
Who wants to stop Kenwood Net posts?
Let me check my delete key.....

Ruben Echevarria
ka2hhb_2000@yahoo.com
exracer1@...

----- Original Message ----
From: Bob Gass <n4fv@yahoo.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:01:53 PM
Subject: [TS-520_820_530_830] Enough Kenwood Nets

I subscribed to this group to learn more about maintaining my classic Kenwood radio, not to read post after post about how someone can't make contact on 20 or 40 meters. May I suggest one of the instant messaging programs, a chatroom, or an IRC server for you guys so you can chat back and forth if you can't talk to each other on your radios instead of clogging my mailbox with a lot of messages I don't have to hit the delete key on?

Visit My Homepage,
http://www.n4fv. net

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.405 / Virus Database: 268.10.9/417 - Release Date: 8/11/2006

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8757. Re: [TS-520_820_530_830] Enough Kenwood Nets

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 00:11:49 UTC
From: John Harp
Topic: 8725 Message: 8757

Hey Reuben opened a chat room. For anyone interested, go down and check it out. It may be a good way to tie the net thing together or chase QSO's with each other. We got to meet each other down there. It worked very nicely and offeres a separate second channel of comunications for us. We even talked on mikes for a while. Go give it a try.

Tim Harrington <kd2oe@...m> wrote:
I agree

Tim
KD2OE

gjcollins@... wrote:
I'll vote. The "Net" postings have gotten out of hand. I think Bob's suggestion of taking it somewhere else is a very good idea.

George, KC1V

----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_830@...m
Sent: Sunday, August 13, 2006 1:12 PM
Subject: Re: [TS-520_820_530_830] Enough Kenwood Nets

OK let's take a vote.....
Who wants to stop Kenwood Net posts?
Let me check my delete key.....

Ruben Echevarria
ka2hhb_2000@yahoo.com
exracer1@...

----- Original Message ----
From: Bob Gass <n4fv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 13, 2006 1:01:53 PM
Subject: [TS-520_820_530_830] Enough Kenwood Nets

I subscribed to this group to learn more about maintaining my classic Kenwood radio, not to read post after post about how someone can't make contact on 20 or 40 meters. May I suggest one of the instant messaging programs, a chatroom, or an IRC server for you guys so you can chat back and forth if you can't talk to each other on your radios instead of clogging my mailbox with a lot of messages I don't have to hit the delete key on?

Visit My Homepage,
http://www.n4fv. net

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.9/417 - Release Date: 8/11/2006

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

8758. TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 04:57:19 UTC
From: Grant
Topic: 8758 Message: 8758

Please forgive me for stepping a wee bit outside the group description but I have not had much luck in contacting anyone with knowledge or interest in the predecessor to the TS-520. I have had my bench crowded by poor an old TS-510 Trio, along with the matching ext. VFO, power supply and speaker for some years... a project that I started with the best of intentions... is anyone inteterest or is this outside of group subject matter... thx... grant

8759. Re: TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 15:07:33 UTC
From: digs4ruff
Topic: 8758 Message: 8759

is anyone inteterest or is this outside of
> group subject matter... thx... grant
>
Grant
I have contacted you by email.
regards
Barry
VA7GEM

8760. TRIO KENWOOD TS530SP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 15:27:04 UTC
From: KEN (G3SDW)
Topic: 8760 Message: 8760

DOES ANY BODY IN THE UK KNOW WERE I CAN PURCHASE TWO SMALL PARTS FOR
MY RIG ABOVE.THEY ARE CIRCUIT REF C8 A DISC CERAMIC CAPACITOR
0.01uF@2000v AND CIRCUIT REF L1 A 150uH CHOKE, AS I NEED THESE TO
COMPLETE THE REPAIR AFTER TOTAL VALVE REPLACEMENT AND CATHODE AND
SCREEN GRID RESISTOR CHANGE.
ANY HELP WOULD BE APPRECIATED.
73&88 TO ALL.
KEN
G3SDW....

8761. Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 15:42:43 UTC
From: Jack
Topic: 8761 Message: 8761

Hi Group. I've recently aquired a TS-820S. Seems to be completely functional on receive. Could use a slight alignment.

The transmitter section does not function. I have a slight difference in the transmit/receive frequency. I have adjusted the 9V and 3.3V on the AVC board. This has not changed the transmit display but the 3.3V adjustment did bring up the noise level a little and it seemed to zero the S meter under no signal.

I can get a 60 ma bias reading via the bias adjustment control on the back panel.

I cannot get any alc action when tuning the drive control. The meter is in the ALC position.

I Cannot get any Ip indication what so ever.

The 12BY7 and the S2001A tubes all check very good on my Knight 300 tube tester.

The SG control on the back of the radio is in the "ON" position.

I do not have an external VFO but do have pins 8 and 9 shorted on the vfo plug socket.

I checked R6 on the rectifier board and it checks ok. (it had been prefiously replaced.

I cannot find the current limiting resistor on the power supply board to check if it is open.

Any help would be greatly appreciated.

Thanks in advance.

Jack - KF4YIO

8762. Intermittent power up on TS530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 16:33:02 UTC
From: wayfound2000
Topic: 8762 Message: 8762

Hello Folks
My 530S has suddenly developed a fault by which when I switch it on it doesn't power up at first. The Dial lights come on and The AF gain produces audio without any RF. The Digital display is off. Other times it comes on straight away. Sometimes it will sit like that a couple of minutes and then spring into life. Anyone had this problem I wonder and know where to start if its a loose connection or dry joint in the psu etc? All the best
Pete

8763. Time for XTALS for the '820 suggestions?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 19:03:00 UTC
From: Roberto Baca Barnard
Topic: 8763 Message: 8763

I wanna get XTALS for my '820 for fixed fq. use on 40 and 20 CW QRP
and the like. Where's the best place?

tnx
Rob. WB7AVF

8765. Re: Time for XTALS for the '820 suggestions?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 20:15:22 UTC
From: Ellen R
Topic: 8763 Message: 8765

Hi Rob,

Try Jan Crystals. I've always gotten any crystals I've needed from
them. Here's their website:

http://www.jancrystals.com/

Click on the "Custom Crystals" line to determine what size you need.
At the bottom of the home page, they tell you how to order crystals
from them.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard"
<barnardbaca@...> wrote:
>
> I wanna get XTALS for my '820 for fixed fq. use on 40 and 20 CW QRP
> and the like. Where's the best place?
>
> tnx
> Rob. WB7AVF
>

8766. Re: Intermittent power up on TS530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 20:20:31 UTC
From: Clif
Topic: 8762 Message: 8766

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks
> My 530S has suddenly developed a fault by which when I switch it on it
> doesn't power up at first. The Dial lights come on and The AF gain
> produces audio without any RF. The Digital display is off. Other times
> it comes on straight away. Sometimes it will sit like that a couple of
> minutes and then spring into life. Anyone had this problem I wonder
> and know where to start if its a loose connection or dry joint in the
> psu etc? All the best
> Pete
>

Try turning the bandswitch and if it comes to life the switch needs
cleaning.

Clif

8767. Re: Intermittent power up on TS530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 20:32:39 UTC
From: wayfound2000
Topic: 8762 Message: 8767

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks
> > My 530S has suddenly developed a fault by which when I switch it
on it
> > doesn't power up at first. The Dial lights come on and The AF
gain
> > produces audio without any RF. The Digital display is off. Other
times
> > it comes on straight away. Sometimes it will sit like that a
couple of
> > minutes and then spring into life. Anyone had this problem I
wonder
> > and know where to start if its a loose connection or dry joint
in the
> > psu etc? All the best
> > Pete
> >
>
> Try turning the bandswitch and if it comes to life the switch needs
> cleaning.
>
> Clif
>
Thanks clif i'll give that a try and let you know

8768. Re: [TS-520_820_530_830] Re: TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 23:24:11 UTC
From: Walt Breining
Topic: 8758 Message: 8768

If a TS-510 is a Kenwood hybrid, I see no reason why we cannot discuss it on this group.

Vy 73, Walt N9WB Moderator

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 15, 2006 10:07 AM
Subject: [TS-520_820_530_830] Re: TS-510

is anyone inteterest or is this outside of
> group subject matter... thx... grant
>
Grant
I have contacted you by email.
regards
Barry
VA7GEM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.10/419 - Release Date: 8/15/06

[Non-text portions of this message have been removed]

8769. Re: [TS-520_820_530_830] Intermittent power up on TS530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 23:27:39 UTC
From: Walt Breining
Topic: 8762 Message: 8769

If the dummy plug on the back for the VFO is loose, the radio will do this. If you are using an external VFO, replace it with the dummy plug for a while and see if the problem stops.

Vy 73, Walt N9WB

----- Original Message -----
From: wayfound2000
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 15, 2006 11:33 AM
Subject: [TS-520_820_530_830] Intermittent power up on TS530S

Hello Folks
My 530S has suddenly developed a fault by which when I switch it on it doesn't power up at first. The Dial lights come on and The AF gain produces audio without any RF. The Digital display is off. Other times it comes on straight away. Sometimes it will sit like that a couple of minutes and then spring into life. Anyone had this problem I wonder and know where to start if its a loose connection or dry joint in the psu etc? All the best
Pete

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.10/419 - Release Date: 8/15/06

[Non-text portions of this message have been removed]

8770. Re: [TS-520_820_530_830] Re: TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-15 23:34:50 UTC
From: Peter A Markavage
Topic: 8758 Message: 8770

510, 511, 900, T599 series: all are hybrids.

Pete, wa2cwa

On Tue, 15 Aug 2006 18:24:11 -0500 "Walt Breining" <n9wb@...>
writes:
> If a TS-510 is a Kenwood hybrid, I see no reason why we cannot
> discuss it on this group.
>
> Vy 73, Walt N9WB Moderator
>

8771. RE: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 00:02:21 UTC
From: Hauser, Ron M.
Topic: 8761 Message: 8771

Hi Jack... It seems you have covered most of the obvious questions except one: have you checked the cathode resistors on the final board? There are two 10ohm in series and so you should get 5ohm across them. Both my kenwoods -- an 820S and an 830S came with bad cathode resistors. In neither case were they completely fried, but they were out of tolerance, and replacing them solved a problem much like yours.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jack
Sent: Tuesday, August 15, 2006 10:43 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

Hi Group. I've recently aquired a TS-820S. Seems to be completely functional on receive. Could use a slight alignment.

The transmitter section does not function. I have a slight difference in the transmit/receive frequency. I have adjusted the 9V and 3.3V on the AVC board. This has not changed the transmit display but the 3.3V adjustment did bring up the noise level a little and it seemed to zero the S meter under no signal.

I can get a 60 ma bias reading via the bias adjustment control on the back panel.

I cannot get any alc action when tuning the drive control. The meter is in the ALC position.

I Cannot get any Ip indication what so ever.

The 12BY7 and the S2001A tubes all check very good on my Knight 300 tube tester.

The SG control on the back of the radio is in the "ON" position.

I do not have an external VFO but do have pins 8 and 9 shorted on the vfo plug socket.

I checked R6 on the rectifier board and it checks ok. (it had been prefiously replaced.

I cannot find the current limiting resistor on the power supply board
to check if it is open.

Any help would be greatly appreciated.

Thanks in advance.

Jack - KF4YIO

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

8772. Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 00:53:22 UTC
From: Jack
Topic: 8761 Message: 8772

Hi Ron. Thanks for the info. I checked the 2 10 ohm resistors on the final board and get about 5 ohms on EACH resistor but get zero ohms across both of them. I made sure NOT to check the common side of the resistors.

Should they be replaced?

I also seem to have lost my bias voltage and in checking the voltage on the rectifier board, I get zero voltage on the plus side of either of the 2 electrolytic caps there.

Jack

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M." <eichmann@...> wrote:
>
> Hi Jack... It seems you have covered most of the obvious questions
> except one: have you checked the cathode resistors on the final board?
> There are two 10ohm in series and so you should get 5ohm across them.
> Both my kenwoods -- an 820S and an 830S came with bad cathode resistors.
> In neither case were they completely fried, but they were out of
> tolerance, and replacing them solved a problem much like yours.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jack
> Sent: Tuesday, August 15, 2006 10:43 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no
> output
>
> Hi Group. I've recently aquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.

>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.
>
> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> prefiously replaced.
>
> I cannot find the current limiting resistor on the power supply board
> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.
>
> Jack - KF4YIO
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> This transmission is intended for the sole use of the individual and
entity to whom it is addressed. Privileged and confidential
information may be contained in this message. You are hereby notified
that any dissemination, distribution, or duplication of this
transmission by someone other then the intended addressee or its
designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that do
not relate to the official business of my organization shall be

understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify this
company immediately by reply to this transmission.
>

8773. Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 01:01:34 UTC
From: Jack
Topic: 8761 Message: 8773

Hi Ron;

In further checking, I seem to have lost my display and now the relay
does not operate. I have the feeling something is amiss with the
rectifier board.

Jack

-- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M."
<eichmann@...> wrote:
>
> Hi Jack... It seems you have covered most of the obvious questions
> except one: have you checked the cathode resistors on the final board?
> There are two 10ohm in series and so you should get 5ohm across them.
> Both my kenwoods -- an 820S and an 830S came with bad cathode resistors.
> In neither case were they completely fried, but they were out of
> tolerance, and replacing them solved a problem much like yours.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jack
> Sent: Tuesday, August 15, 2006 10:43 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no
> output
>
> Hi Group. I've recently aquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.
>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.

>
> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> prefiously replaced.
>
> I cannot find the current limiting resistor on the power supply board
> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.
>
> Jack - KF4YIO
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
> This transmission is intended for the sole use of the individual and
entity to whom it is addressed. Privileged and confidential
information may be contained in this message. You are hereby notified
that any dissemination, distribution, or duplication of this
transmission by someone other then the intended addressee or its
designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that do
not relate to the official business of my organization shall be
understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify this
company immediately by reply to this transmission.
>

8774. TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 01:29:33 UTC
From: jon_77449
Topic: 8774 Message: 8774

I come home today and my ts-520 won't transmit.It receives fine, don't smell any burnt parts just turned it on,warmed up then tried to tune and nothing.the finals say s2001a, so they must be original.Could it be just the tubes or do I have bigger problems?
Jon

8775. Re: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 02:47:03 UTC
From: Peter A Markavage
Topic: 8761 Message: 8775

Note: Resistors in "series": add the value of each one to get the total resistance.
Identical resistors values in "parallel": 2= 1/2 value, 3=1/3 value, 4=1/4 value, etc.

Pete, wa2cwa

On Tue, 15 Aug 2006 19:02:21 -0500 "Hauser, Ron M." <eichmann@...> writes:
> Hi Jack... It seems you have covered most of the obvious questions
> except one: have you checked the cathode resistors on the final
> board?
> There are two 10ohm in series and so you should get 5ohm across
> them.
> Both my kenwoods -- an 820S and an 830S came with bad cathode
> resistors.
> In neither case were they completely fried, but they were out of
> tolerance, and replacing them solved a problem much like yours.
>
> 73
> --Ron
> KC0TLN

8776. Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 04:59:24 UTC
From: m_m_maxau
Topic: 8776 Message: 8776

G'day guys.

can anyone help with ferrite cores for the Mixer/antenna/TX section
Cans in a Ts820S.

It seems that the wrong tool was used to try and tune the radio (not by
me), and I now need to replace a number of ferrite cores to properly
tune the old girl up.

Any help would be very much appreciated.

73's
Anthony

8777. Re: [TS-520_820_530_830] TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 10:53:06 UTC
From: Walt Breining
Topic: 8774 Message: 8777

Check to see if the SG switch on the back has been bumped. Walt N9WB
----- Original Message -----
From: jon_77449
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 15, 2006 8:29 PM
Subject: [TS-520_820_530_830] TX on TS-520

I come home today and my ts-520 won't transmit.It receives fine, don't
smell any burnt parts just turned it on,warmed up then tried to tune
and nothing.the finals say s2001a, so they must be original.Could it
be just the tubes or do I have bigger problems?
Jon

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.10/419 - Release Date: 8/15/06

[Non-text portions of this message have been removed]

8778. RE: [TS-520_820_530_830] Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 13:07:26 UTC
From: Hauser, Ron M.
Topic: 8761 Message: 8778

Hi Jack. Well, I mistyped, as pointed out by Pete WA2CWA. The two 10 ohm cathode resistors are in _parallel_ and so you should read 5 ohms across the circuit. If you were reading them without desoldering them, which I assume you were, then the 5 ohms is good.

It sounds like you are zeroing in on the problem with the electrolytic caps, those are also known problems (but not known to me, I haven't worked in that area...yet).

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jack
Sent: Tuesday, August 15, 2006 7:53 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Ts-820S No transmit/no alc/no drive/no output

Hi Ron. Thanks for the info. I checked the 2 10 ohm resistors on the final board and get about 5 ohms on EACH resistor but get zero ohms across both of them. I made sure NOT to check the common side of the resistors.

Should they be replaced?

I also seem to have lost my bias voltage and in checking the voltage on the rectifier board, I get zero voltage on the plus side of either of the 2 electrolytic caps there.

Jack

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M." <eichmann@...> wrote:
>
> Hi Jack... It seems you have covered most of the obvious questions
> except one: have you checked the cathode resistors on the final board?
> There are two 10ohm in series and so you should get 5ohm across them.
> Both my kenwoods -- an 820S and an 830S came with bad cathode resistors.
> In neither case were they completely fried, but they were out of
> tolerance, and replacing them solved a problem much like yours.

>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jack
> Sent: Tuesday, August 15, 2006 10:43 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no
> output
>
> Hi Group. I've recently aquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.
>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.
>
> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> prefiously replaced.
>
> I cannot find the current limiting resistor on the power supply board
> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.
>
> Jack - KF4YIO
>

>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
> This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.
>

Yahoo! Groups Links

8779. Thanks de KA2HHB

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 13:24:04 UTC
From: Ruben Echevarria
Topic: 8779 Message: 8779

Thanks to John / KA3DPW & Ken / W8ASA for stopping into the Paltalk Chat Room, Good QSO's guys.
Room is listed under Sports & Hobbies in Paltalk ... Informal...Not meant to take anything away from this group
but to enhance. ADMINS needed ... tnx de ka2hhb ...

www.paltalk.com
Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

8780. Re: TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 14:58:17 UTC
From: digs4ruff
Topic: 8758 Message: 8780

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@...> wrote:
>
> If a TS-510 is a Kenwood hybrid, I see no reason why we cannot
discuss it on this group.
>
> Vy 73, Walt N9WB Moderator
>
> ----- Original Message -----
> From: digs4ruff
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, August 15, 2006 10:07 AM
> Subject: [TS-520_820_530_830] Re: TS-510
>
>
> is anyone inteterest or is this outside of
> > group subject matter... thx... grant
> >
> Grant
> I have contacted you by email.
> regards
> Barry
> VA7GEM
>
>
>
>
>
>
> ----------
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.10.10/419 - Release Date:
8/15/06
>
>
> [Non-text portions of this message have been removed]
>

8781. Re: If Anyone Is Interested .....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 15:16:16 UTC
From: digs4ruff
Topic: 8747 Message: 8781

Ruben
Thanks very much but I have this thing about unwanted tool bars and advertising that comes free with this soft ware.
I will leave Echolink turned on with simultaneous connections set at 50 if anyone wants to use this to chat.
regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Hi, I opened a Kenwood group on www.paltalk.com , it's a chat and video room.
> So if you guys and ladies want to be heard and carry on a conversation concerning
> our interests, it will be open Monday thru Friday. So if you have a mic plug it in
> and we'll talk. Just download the Paltalk program and log in. It's listed under "Sports & Hobbies"
> I'll have it up for a week or two and if it works out we'll keep it up.
>
> Thanks Ruben KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...

8782. Re: TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 15:20:09 UTC
From: digs4ruff
Topic: 8758 Message: 8782

Obviously the system truncated the previous attempt to post.

Thanks Walt
The rig is a hybrid and no doubt I will have a lot of questions next
winter when the project begins.
regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
> <n9wb@> wrote:
> >
> > If a TS-510 is a Kenwood hybrid, I see no reason why we cannot
> discuss it on this group.
> >
> > Vy 73, Walt N9WB Moderator
> >
> > ----- Original Message -----
> > From: digs4ruff
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, August 15, 2006 10:07 AM
> > Subject: [TS-520_820_530_830] Re: TS-510
> >
> >
> > is anyone inteterest or is this outside of
> > > group subject matter... thx... grant
> > >
> > Grant
> > I have contacted you by email.
> > regards
> > Barry
> > VA7GEM
> >
> >
> >
> >
> >
> >
> > --
--
> ------------
> >

> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.405 / Virus Database: 268.10.10/419 - Release
Date:
> 8/15/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

8783. Re: [TS-520_820_530_830] TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 17:06:47 UTC
From: John Harp
Topic: 8774 Message: 8783

That happened to me in the last week. I had no digital display no audio and couldn't key. I had just cleaned throughout the TS-830S including all switches because I had a feedback problem. I thought RF was getting into something somewhere. Here it turned out I forgot to put the SG Switch to "ON" for normal operation. The documentation doesn't really say this in the troubleshooting section. Off is just for neutralizing the tubes. Now I have one radio up and on the air.

Walt Breining <n9wb@...> wrote: Check to see if the SG switch on the back has been bumped.
Walt N9WB
----- Original Message -----
From: jon_77449
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 15, 2006 8:29 PM
Subject: [TS-520_820_530_830] TX on TS-520

I come home today and my ts-520 won't transmit.It receives fine, don't
smell any burnt parts just turned it on,warmed up then tried to tune
and nothing.the finals say s2001a, so they must be original.Could it
be just the tubes or do I have bigger problems?
Jon

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.10/419 - Release Date: 8/15/06

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8784. Re: [TS-520_820_530_830] Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 17:18:29 UTC
From: John Harp
Topic: 8776 Message: 8784

Anthony alot of times you wind up replacing the whole coil too. Sometimes the slug won't move and someone forces it. What you see there may be that result. They usually crack. If that's the case, look at Ken's website W4EAA - Kenwwod restoration. He may be your best bet.

m_m_maxau <agoodridge@...> wrote: G'day guys.

can anyone help with ferrite cores for the Mixer/antenna/TX section
Cans in a Ts820S.

It seems that the wrong tool was used to try and tune the radio (not by me), and I now need to replace a number of ferrite cores to properly tune the old girl up.

Any help would be very much appreciated.

73's
Anthony

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8785. Re: [TS-520_820_530_830] TRIO KENWOOD TS530SP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 18:19:12 UTC
From: John Harp
Topic: 8760 Message: 8785

I put in a search on google search for you, and came up with this:
The electronics Seller BG Micro 1-972-276-9447 shows part No. COL 1038 as in stock for 39 cents. It seems like it should work. They deal outside the USA as well. It seems to be about the same size and shape as a 1/2 watt resistor. Check into it.

Also Arco Electronics on the web has a site that has a new dwvelopment in multi-layer ceramic construction, that may work for you. The capcitor voltage rating and capacity range are there in a smaller size that may fit just fine in your situation they fit mil specs. So check it out and let the rest of us know how you faired out.(800)441-2726.they're in Camarillo, California, USA.

"KEN (G3SDW)" <g3sdw@...> wrote:
DOES ANY BODY IN THE UK KNOW WERE I CAN PURCHASE TWO SMALL PARTS FOR
MY RIG ABOVE.THEY ARE CIRCUIT REF C8 A DISC CERAMIC CAPACITOR
0.01uF@2000v AND CIRCUIT REF L1 A 150uH CHOKE, AS I NEED THESE TO
COMPLETE THE REPAIR AFTER TOTAL VALVE REPLACEMENT AND CATHODE AND
SCREEN GRID RESISTOR CHANGE.
ANY HELP WOULD BE APPRECIATED.
73&88 TO ALL.
KEN
G3SDW....

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8786. Re: Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 18:22:40 UTC
From: Gordon
Topic: 8776 Message: 8786

Anthony,
If the cores are not Cracked, but just the tool slot is broken, you can carefully unsolder the coil from the board and unscrew the core from the bottom, then flip it upside down and screw it back in. The cores have the tool slot on both ends. Then resolder the Can onto the board. If the core is cracked, it will definately need to be replaced.

73,
gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau" <agoodridge@...> wrote:
> G'day guys.
>
> can anyone help with ferrite cores for the Mixer/antenna/TX section
> Cans in a Ts820S.
>
> It seems that the wrong tool was used to try and tune the radio (not by
> me), and I now need to replace a number of ferrite cores to properly
> tune the old girl up.
>
> Any help would be very much appreciated.
>
> 73's
> Anthony
>

8787. Re: [TS-520_820_530_830] TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 18:27:36 UTC
From: John Harp
Topic: 8774 Message: 8787

Jon, firstcheck your grid switch on the back to make sure it's turned on. Second replace those old tubes with some 6146's B's or W's. Cost around 40 bucks. Then neutralize the radio. Those tubes may be old, but something else may be going on. That's where to start.

jon_77449 <jledbetter8@...> wrote: I come home today and my ts-520 won't transmit.It receives fine, don't
smell any burnt parts just turned it on,warmed up then tried to tune
and nothing.the finals say s2001a, so they must be original.Could it
be just the tubes or do I have bigger problems?
Jon

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8788. Re: [TS-520_820_530_830] Re: Intermittent power up on TS530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 18:38:59 UTC
From: John Harp
Topic: 8762 Message: 8788

Spray the contacts with some good tuner cleaner;both the band switches and the SW grid switch. move them both around and spray some more.This cleans the conections. When your done Make sure you move the SG Switch back to on.

wayfound2000 <wayfound2000@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks
> > My 530S has suddenly developed a fault by which when I switch it
on it
> > doesn't power up at first. The Dial lights come on and The AF
gain
> > produces audio without any RF. The Digital display is off. Other
times
> > it comes on straight away. Sometimes it will sit like that a
couple of
> > minutes and then spring into life. Anyone had this problem I
wonder
> > and know where to start if its a loose connection or dry joint
in the
> > psu etc? All the best
> > Pete
> >
>
> Try turning the bandswitch and if it comes to life the switch needs
> cleaning.
>
> Clif
>
Thanks clif i'll give that a try and let you know

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8789. TS-830s, using DH button to select 1st & 2nd IF cw filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 20:04:36 UTC
From: dan_w7wa
Topic: 8789 Message: 8789

Does anyone have info on the mod to use the DH button to select either the 1st IF cw filter alone, or both 1st & 2nd IF cw filters, while in the CW-N position? I seem to recall seeing this mod being published somewhere in the 1980's.

Dan W7WA

8791. Re: [TS-520_820_530_830] Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 21:31:20 UTC
From: Walt Breining
Topic: 8761 Message: 8791

Jack:
Unless something has changed, I read that you can adjust the bias adjustment for 60 ma as follows:
In USB or LSB, mike gain fully down on transmit. Is this correct?
If so, Everything from a DC standpoint including the tubes in the final section is working.

I thought that I saw a post that said that you had lost your display. This can happen along with other deadness if the dummy plug is not installed in the VFO plug.
Also, be sure that the Function switch is straight up in the VFO position.

Please check to be sure that you have the proper fuse installed in this radio. Please read the article "Save your Transformer" near the bottom of the files section of this group.

Please tell us again exactly what the radio is and is not doing after checking the above.

----- Original Message -----
From: Jack
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 15, 2006 7:53 PM
Subject: [TS-520_820_530_830] Re: Ts-820S No transmit/no ALC/no drive/no output

Hi Ron. Thanks for the info. I checked the 2 10 ohm resistors on the final board and get about 5 ohms on EACH resistor but get zero ohms across both of them. I made sure NOT to check the common side of the resistors.

Should they be replaced?

I also seem to have lost my bias voltage and in checking the voltage on the rectifier board, I get zero voltage on the plus side of either of the 2 electrolytic caps there.

Jack

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M." <eichmann@...> wrote:
>
> Hi Jack... It seems you have covered most of the obvious questions
> except one: have you checked the cathode resistors on the final board?
> There are two 10ohm in series and so you should get 5ohm across them.
> Both my kenwoods -- an 820S and an 830S came with bad cathode resistors.

> In neither case were they completely fried, but they were out of
> tolerance, and replacing them solved a problem much like yours.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jack
> Sent: Tuesday, August 15, 2006 10:43 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no
> output
>
> Hi Group. I've recently acquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.
>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.
>
> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> previously replaced.
>
> I cannot find the current limiting resistor on the power supply board
> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.
>

> Jack - KF4YIO

8792. Re: [TS-520_820_530_830] Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 21:03:18 UTC
From: agoodridge
Topic: 8776 Message: 8792

G'day John

Thanks mate

I will have a look at the website and see what he has

Thanks again

73
Anthony----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 17, 2006 3:18 AM
Subject: Re: [TS-520_820_530_830] Need some parts (ferrite cores) for TS820S.

Anthony alot of times you wind up replacing the whole coil too. Sometimes the slug won't move and someone forces it. What you see there may be that result. They usually crack. If that's the case, look at Ken's website W4EAA - Kenwwod restoration. He may be your best bet.

m_m_maxau <agoodridge@...> wrote: G'day guys.

can anyone help with ferrite cores for the Mixer/antenna/TX section
Cans in a Ts820S.

It seems that the wrong tool was used to try and tune the radio (not by
me), and I now need to replace a number of ferrite cores to properly
tune the old girl up.

Any help would be very much appreciated.

73's
Anthony

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.10.10/419 - Release Date: 15/08/2006

[Non-text portions of this message have been removed]

8793. Re: [TS-520_820_530_830] Re: Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 22:32:09 UTC
From: Walt Breining
Topic: 8776 Message: 8793

Cracked slugs are usually the result of somebody using the wrong or a metal tool to attempt adjustment.
Some coils are actually transformers, but the same things apply regarding jammed or broken slugs.
When trying to repair coils with broken slugs, patience and care is of the utmost importance. Remember that even if it takes considerable time to repair a jammed coil, it is insignificant compared to the time involved in trying to locate a replacement.

Often when slugs are cracked, the slot on the top is split and a corner of the top of the slug wedges the slug tight. Sometimes this chip can be removed with a small precision screwdriver and this will free up the slug. The slug then can sometimes be worked out from the top by carefully pushing on the corner of what is left of the slot with a very small precision metal screwdriver.

Like Gordon said, the coils can be carefully removed and the slug sometimes can be backed out from the bottom. If the slug cannot be removed from the top then carefully work from the bottom and then sometimes the chip can be released from the top by slightly moving the slug from the bottom. On the end where the slot is good, avoid using a metal tool as that is probably how they got cracked in the first place. As a last resort, try the metal tool very very carefully to get a firm grip but do not apply too much pressure or you will be in bigger trouble fast.

I have also found that sometimes heating the slug from the top or bottom with a small soldering iron helps it break loose.

As Gordon said, if the slug has one good end, smooth out any rough spots on the bad end and reuse the slug with the good slot up and of course use the proper plastic tool.

If nothing else works, after all else has failed, you can often CAREFULLY chip the slug out piece by piece using a small precision screwdriver and a small hammering device. I have even used a small drill bit and bored out the center of the slug. Start with a small bit and then use a bigger one until you can chip out the remaining slug. I do not use an electric drill for this. It will catch and destroy the coil entirely. I usually wrap masking tape on the shaft of the drill bit as a handle and use it as a hand tool. You will begin to feel like a dentist at this point. OUCH!

If the threads in the coil form or slugs are stripped so the slug will not stay in place, shim a very small piece of a rubber band next to the slug but be sure it is small enough that it does not make the slug too tight.

If you encounter a coil with some brown goop in the top, that is bees wax. It can be scraped out and melted with a small soldering iron. The coil slug can be turned while the wax is still warm. I usually do not reseal these coils as they don't move. The exception is VCO coils that were already factory sealed.

If the was must be replaced, you can often find excess wax adjacent to the coil or a good inexpensive source of bees wax is a commode seal available for less that 2 dollars at hardware or building supply stores.

Sometimes, these coils are sealed by a paint like substance. It can be melted or burned out using a small soldering iron.

Replacement slugs:

CB radios from that era are a good source of slugs as well as other consumer products from that era. The thread pitch and sometimes the diameter of the slugs varies. The CBs made by Cybernet such as Hy-Gains and Midlands, any CB that used a PLL 02A as a PLL chip is a possible candidate for Kenwood slugs. Most Uniden made units have slugs that are not the right thread pitch. Some Sears and JC Pennys radios also might have usable slugs. If you have a CB repair guy in the area that has been around for years, and his shop looks like a junk yard, he's the man!

The permeability of these slugs can vary but I have not very often had any problems changing slugs and disregarding this. There is usually enough range in these coils to compensate for this. Most of the slugs you will get will probably be found in the first IF of these rigs and they will be the correct permeability anyway. Although some from the PLL coil and transmit driver coils will work too. If the slug fits, try it.

If it ain't broke, don't fix it ! It is very very seldom that a coil or transformer that has not been tampered with after it was set at the factory will benefit from adjustment.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 16, 2006 1:22 PM
Subject: [TS-520_820_530_830] Re: Need some parts (ferrite cores) for TS820S.

Anthony,
If the cores are not Cracked, but just the tool slot is broken, you
can carefully unsolder the coil from the board and unscrew the core
from the bottom, then flip it upside down and screw it back in. The
cores have the tool slot on both ends. Then resolder the Can onto the
board. If the core is cracked, it will definately need to be replaced.

73,
gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
>
> G'day guys.
>
> can anyone help with ferrite cores for the Mixer/antenna/TX section
> Cans in a Ts820S.
>
> It seems that the wrong tool was used to try and tune the radio (not by

> me), and I now need to replace a number of ferrite cores to properly
> tune the old girl up.
>
> Any help would be very much appreciated.
>
> 73's
> Anthony
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.1/421 - Release Date: 8/16/06

[Non-text portions of this message have been removed]

8794. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 21:44:36 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 8794

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /Dealing with broken slugs
Uploaded by : n9wb <n9wb@...>
Description : Notes on coil slug removal

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/Dealing%20with%20broken%20slugs

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

n9wb <n9wb@...>

8795. RE: [TS-520_820_530_830] TS-830s, using DH button to select 1st & 2nd IF cw filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 22:07:26 UTC
From: Hauser, Ron M.
Topic: 8789 Message: 8795

Hi Dan. Interesting that you mention this, as I have been looking at making a similar mod for my TS820. Here is the link:

http://www.radiomods.co.nz/kenwood/kenwoodts830.html

Note that the text in this page is not in the best shape, it looks like someone imported it through an interface and some letters and characters didn't quite make it. Since I was looking at doing a similar mod, I imported the text and edited it to the best of my understanding. The following is my interpretation of the section from the above page, with capital letters and corrections added. The normal disclaimers apply... If anyone sees any errors feel free to point them out and I will update my text.

73
--Ron
KC0TLN

Kenwood TS-830 filter modification

Here is an easy filter modification for the Kenwood TS-830s. First to use this mod, your rig needs the YK-88c and to make it even better, the YG-455c installed. In short what we are going to do, is move around a 9 volt switching voltage. This voltage comes from the AF board, connector no. 7, pin no. 5. It's marked RLR on the schematic. This voltage ends up at the PLL assembly, connector no. 8, pin no. VP2. Please don't try this modification by cutting in this circuit at the source, because this same switching voltage feeds the IF shift circuit, and the VBT circuit, and the PLL. So cutting the wire at the AF board will make the PLL unlock when the mode switch is anywhere but in the CW positions. Now to the procedures:

1. Remove the top and bottom covers, and turn the radio upside down with front facing you.

2. Locate the mode switch, and on the middle wafer set of contacts, cut the white wire with the blue stripe. It is located next to the terminal with no connection, on the middle wafer set of contacts. Leave about 1/4 inch of wire on the switch contact, so you can make a connection there later.

3. You will need a another switch, one with at least three terminals, with the center terminal always in contact with one or the other of the outside contacts. It's best to use a toggle type so you can mount it in

one of the spare holes on the back of the radio.

4. Splice into the wire removed from the mode switch, and connect this wire to the center of your new switch.

5. From one (you select) of the side terminals of the new switch, connect a wire and run it back to the mode switch. connect this wire to the terminal on the mode switch from which you removed the white wire with the blue stripe. You did leave that 1/4 inch of wire didn't you? Take care here, the grey wire next to the one you are working on carries 110 volts, so don't make any solder shorts!

6. Now from the remaining terminal of your new switch, connect and run a wire to the IF board to pins CW1-CW4. Connect this wire to the green wire, that is connected to one of these pins. You will then have two wires connected to one of these terminals.

7. Make sure that you have no solder shorts or bridges, make sure you have taped or insulated any bare wire connections. Mount the new switch in one of the spare holes on the back of the radio. Install the top and bottom covers.

The modification works great, one position on the new switch and everything is normal, in the other position the cw filter is placed in-line regardless of the position of the mode switch. To use the CW filters on RTTY/AMTOR I found I had to turn the IF shift control CCW to about the 9:30 position to center the tones in the passband. If you need an even narrower passband, just tighten it up a little with the VBT.

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

8796. Re: [TS-520_820_530_830] TS-830s, using DH button to select 1st & 2nd IF cw filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 23:03:38 UTC
From: John Harp
Topic: 8789 Message: 8796

Are you referring to the AM Mod for TS-830. I have that info. i found it a couple of days ago. If thats what your looking for reply back with where you want it sent and I'll give the web adress.

dan_w7wa <dan_w7wa@...> wrote: Does anyone have info on the mod to use the DH button to select either
the 1st IF cw filter alone, or both 1st & 2nd IF cw filters, while in
the CW-N position? I seem to recall seeing this mod being published
somewhere in the 1980's.

Dan W7WA

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8797. Re: [TS-520_820_530_830] Re: Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 23:50:01 UTC
From: agoodridge
Topic: 8776 Message: 8797

G'day Walt

Thanks for taking the time to post such a detailed reply,

it is much appreciated mate!

I will read your post over a few times before working on the radio!

I am just in the process of printing it up!

I know what you mean about if it ain't broke don't fix it, I bought a "dead" johnson viking 352D off e bay here in Australia some years ago as being parts only.

I have the service manual and some basic knowledge, so I spent about 6 hours all up tuning as per the factory specs, and guess what, it is the nicest sounding cb radio I have ever used (even though I no longer use that band much at all), just goes to show.

The guy I bought it from said that his tech could not get it going at all, very strange, sounds like he did more harm than good!

Thanks again mate

73
Anthony
VK2FVIC

----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 17, 2006 8:32 AM
Subject: Re: [TS-520_820_530_830] Re: Need some parts (ferrite cores) for TS820S.

Cracked slugs are usually the result of somebody using the wrong or a metal tool to attempt adjustment.
Some coils are actually transformers, but the same things apply regarding jammed or broken slugs.
When trying to repair coils with broken slugs, patience and care is of the utmost importance. Remember that even if it takes considerable time to repair a jammed coil, it is insignificant compared to the time involved in trying to locate a replacement.

Often when slugs are cracked, the slot on the top is split and a corner of the top of the slug wedges the slug tight. Sometimes this chip can be removed with a small precision screwdriver and this will free up the slug. The slug then can sometimes be worked out from the top by carefully pushing on the corner of what is left of the slot with a very small precision metal screwdriver.

Like Gordon said, the coils can be carefully removed and the slug sometimes can be backed out from the bottom. If the slug cannot be removed from the top then carefully work from the bottom and then sometimes the chip can be released from the top by slightly moving the slug from the bottom. On the end where the slot is good, avoid using a metal tool as that is probably how they got cracked in the first place. As a last resort, try the metal tool very very carefully to get a firm grip but do not apply too much pressure or you will be in bigger trouble fast.

I have also found that sometimes heating the slug from the top or bottom with a small soldering iron helps it break loose.

As Gordon said, if the slug has one good end, smooth out any rough spots on the bad end and reuse the slug with the good slot up and of course use the proper plastic tool.

If nothing else works, after all else has failed, you can often CAREFULLY chip the slug out piece by piece using a small precision screwdriver and a small hammering device. I have even used a small drill bit and bored out the center of the slug. Start with a small bit and then use a bigger one until you can chip out the remaining slug. I do not use an electric drill for this. It will catch and destroy the coil entirely. I usually wrap masking tape on the shaft of the drill bit as a handle and use it as a hand tool. You will begin to feel like a dentist at this point. OUCH!

If the threads in the coil form or slugs are stripped so the slug will not stay in place, shim a very small piece of a rubber band next to the slug but be sure it is small enough that it does not make the slug too tight.

If you encounter a coil with some brown goop in the top, that is bees wax. It can be scraped out and melted with a small soldering iron. The coil slug can be turned while the wax is still warm. I usually do not reseal these coils as they don't move. The exception is VCO coils that were already factory sealed.

If the was must be replaced, you can often find excess wax adjacent to the coil or a good inexpensive source of bees wax is a commode seal available for less that 2 dollars at hardware or building supply stores.

Sometimes, these coils are sealed by a paint like substance. It can be melted or burned out using a small soldering iron.

Replacement slugs:

CB radios from that era are a good source of slugs as well as other consumer products from that era. The thread pitch and sometimes the diameter of the slugs varies. The CBs made by Cybernet such as Hy-Gains and Midlands, any CB that used a PLL 02A as a PLL chip is a possible candidate for Kenwood slugs. Most Uniden made units have slugs that are not the right thread pitch. Some Sears and JC Pennys radios also might have usable slugs. If you have a CB repair guy in the area that has been around for years, and his shop looks like a junk yard, he's the man!

The permeability of these slugs can vary but I have not very often had any problems changing slugs and disregarding this. There is usually enough range in these coils to compensate for this. Most of the slugs you will get will probably be found in the first IF of these rigs and they will be the correct permeability anyway. Although some from the PLL coil and transmit driver coils will work too. If the slug fits, try it.

If it ain't broke, don't fix it ! It is very very seldom that a coil or transformer that has not been tampered with after it was set at the factory will benefit from adjustment.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 16, 2006 1:22 PM
Subject: [TS-520_820_530_830] Re: Need some parts (ferrite cores) for TS820S.

Anthony,
If the cores are not Cracked, but just the tool slot is broken, you can carefully unsolder the coil from the board and unscrew the core from the bottom, then flip it upside down and screw it back in. The cores have the tool slot on both ends. Then resolder the Can onto the board. If the core is cracked, it will definately need to be replaced.

73,
gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau" <agoodridge@...> wrote:
>
> G'day guys.
>
> can anyone help with ferrite cores for the Mixer/antenna/TX section
> Cans in a Ts820S.
>
> It seems that the wrong tool was used to try and tune the radio (not by
> me), and I now need to replace a number of ferrite cores to properly
> tune the old girl up.
>
> Any help would be very much appreciated.
>
> 73's
> Anthony
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.1/421 - Release Date: 8/16/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.1/421 - Release Date: 16/08/2006

[Non-text portions of this message have been removed]

8798. Re: TS-830s, using DH button to select 1st & 2nd IF cw filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-16 23:55:27 UTC
From: dan_w7wa
Topic: 8789 Message: 8798

Thanks but that mod allows for using the cw filters in modes other
than cw. To clarify further, the mod I am looking for allows the
user in the CW-N position to use just the 1st IF cw filter (DH
button out) or use both the 1st and 2nd IF cw filters in combination
(DH button in). Thus this mod sort of provides a "CW-Narrow" and "CW-
Narrower" option.

Dan W7WA

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M."
<eichmann@...> wrote:
>
> Hi Dan. Interesting that you mention this, as I have been looking
at
> making a similar mod for my TS820. Here is the link:
>
> http://www.radiomods.co.nz/kenwood/kenwoodts830.html
>
> Note that the text in this page is not in the best shape, it looks
like
> someone imported it through an interface and some letters and
characters
> didn't quite make it. Since I was looking at doing a similar mod,
I
> imported the text and edited it to the best of my understanding.
The
> following is my interpretation of the section from the above page,
with
> capital letters and corrections added. The normal disclaimers
apply...
> If anyone sees any errors feel free to point them out and I will
update
> my text.
>
> 73
> --Ron
> KC0TLN
>
> ---------------------
> Kenwood TS-830 filter modification
>
>
> Here is an easy filter modification for the Kenwood TS-830s.
First to
> use this mod, your rig needs the YK-88c and to make it even

better, the
> YG-455c installed. In short what we are going to do, is move
around a 9
> volt switching voltage. This voltage comes from the AF board,
connector
> no. 7, pin no. 5. It's marked RLR on the schematic. This voltage
ends
> up at the PLL assembly, connector no. 8, pin no. VP2. Please
don't try
> this modification by cutting in this circuit at the source,
because this
> same switching voltage feeds the IF shift circuit, and the VBT
circuit,
> and the PLL. So cutting the wire at the AF board will make the PLL
> unlock when the mode switch is anywhere but in the CW positions.
Now to
> the procedures:
>
>
> 1. Remove the top and bottom covers, and turn the radio upside
down with
> front facing you.
>
> 2. Locate the mode switch, and on the middle wafer set of
contacts, cut
> the white wire with the blue stripe. It is located next to the
terminal
> with no connection, on the middle wafer set of contacts. Leave
about
> 1/4 inch of wire on the switch contact, so you can make a
connection
> there later.
>
> 3. You will need a another switch, one with at least three
terminals,
> with the center terminal always in contact with one or the other
of the
> outside contacts. It's best to use a toggle type so you can mount
it in
> one of the spare holes on the back of the radio.
>
> 4. Splice into the wire removed from the mode switch, and connect
this
> wire to the center of your new switch.
>
> 5. From one (you select) of the side terminals of the new switch,
> connect a wire and run it back to the mode switch. connect this
wire to
> the terminal on the mode switch from which you removed the white
wire

> with the blue stripe. You did leave that 1/4 inch of wire didn't
you?
> Take care here, the grey wire next to the one you are working on
carries
> 110 volts, so don't make any solder shorts!
>
> 6. Now from the remaining terminal of your new switch, connect and
run a
> wire to the IF board to pins CW1-CW4. Connect this wire to the
green
> wire, that is connected to one of these pins. You will then have
two
> wires connected to one of these terminals.
>
> 7. Make sure that you have no solder shorts or bridges, make sure
you
> have taped or insulated any bare wire connections. Mount the new
switch
> in one of the spare holes on the back of the radio. Install the
top and
> bottom covers.
>
>
> The modification works great, one position on the new switch and
> everything is normal, in the other position the cw filter is placed
> in-line regardless of the position of the mode switch. To use the
CW
> filters on RTTY/AMTOR I found I had to turn the IF shift control
CCW to
> about the 9:30 position to center the tones in the passband. If
you
> need an even narrower passband, just tighten it up a little with
the
> VBT.
>
>
>
>
> This transmission is intended for the sole use of the individual
and entity to whom it is addressed. Privileged and confidential
information may be contained in this message. You are hereby
notified that any dissemination, distribution, or duplication of
this transmission by someone other then the intended addressee or
its designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that
do not relate to the official business of my organization shall be
understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify
this company immediately by reply to this transmission.
>

8799. Re: TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 00:03:50 UTC
From: jon_77449
Topic: 8774 Message: 8799

Thanks for the help,Tried tuning today and and it worked but on the plate and drive tuning moving the knobs 1/32" could make it go completely through the tuning sweep,so I beleive it is the tubes that finally went south.
Thanks, Jon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Jon, firstcheck your grid switch on the back to make sure it's turned on. Second replace those old tubes with some 6146's B's or W's. Cost around 40 bucks. Then neutralize the radio. Those tubes may be old, but something else may be going on. That's where to start.
>
> jon_77449 <jledbetter8@...> wrote: I come home today and my ts-520 won't transmit.It receives fine, don't
> smell any burnt parts just turned it on,warmed up then tried to tune
> and nothing.the finals say s2001a, so they must be original.Could it
> be just the tubes or do I have bigger problems?
> Jon
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>

8801. RE: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 07:02:00 UTC
From: Richard Harris
Topic: 8761 Message: 8801

Hi Ken,

One source of 0.01uF 2kV disc capacitors in the UK is Farnell part number 921-660. I haven't looked at the circuit to assess suitability, but Farnell also have 150uH inductors in their catalogue e.g. 608-592 and 513-490. Farnell will accept credit card orders

Please note that the above part numbers are from the 2005 catalogue and are for components with lead-solder tinning. You will need to check their web site as these parts may have been replaced by lead-free parts which will carry a new part number.

73s,

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Hauser, Ron M.
Sent: 16 August 2006 01:02
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

DOES ANY BODY IN THE UK KNOW WERE I CAN PURCHASE TWO SMALL PARTS FOR
MY RIG ABOVE.THEY ARE CIRCUIT REF C8 A DISC CERAMIC CAPACITOR
0.01uF@2000v AND CIRCUIT REF L1 A 150uH CHOKE, AS I NEED THESE TO
COMPLETE THE REPAIR AFTER TOTAL VALVE REPLACEMENT AND CATHODE AND
SCREEN GRID RESISTOR CHANGE.
ANY HELP WOULD BE APPRECIATED.
73&88 TO ALL.
KEN
G3SDW....

[Non-text portions of this message have been removed]

8802. Re: TS-830s, using DH button to select 1st & 2nd IF cw filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 07:08:15 UTC
From: Jeroen
Topic: 8789 Message: 8802

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Are you referring to the AM Mod for TS-830. I have that info. i found it a couple of days ago. If thats what your looking for reply back with where you want it sent and I'll give the web adress.
>
> SNIP

Hi John,

I don't think Dan was referring to the AM-mod, but I am most certainly interested in the AM-mod. Could you post the web address in the Links section? If not, an e-mail would be very much appreciated.

Tnx!
73 de PF1JM Jeroen

8803. Request

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 08:27:04 UTC
From: AllanKB5DOH
Topic: 8803 Message: 8803

Hi, Allan= kb5doh here there is a friend who is a amateur who I feel would be a good member here he has a Kenwood a old 2-m needs a plug for it but really trying to get up grade to general and has to do the code. if you could send him a invite to the group would be nice. I have told him of the group, He was injured many years ago he has a broken neck and gets around in a motorized chair little to no use of hands/fingers. let me know what you decide please. He needs the power plug so that we can wire it for his radio to get it on the air. Uses a old small jones plug size less than 1" sq.

Allan Johnny kc5rvf@... is in Norman, OK

8804. Re: [TS-520_820_530_830] Re: TS-830s, DH button to select 1st & 2nd IF cw filters & AM mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 17:18:45 UTC
From: Peter A Markavage
Topic: 8804 Message: 8804

Review around page 60 to 62 of the service manual for the additional circuit board (relays, some discrete components, and a 6 KHz filter) that adds AM capability to the 830 and effectively makes it an 830M. Kenwood's comment to me years ago about adding this board was that it wasn't worth doing. 830S was designed with SSB and CW as the primary modes. If it was one of the CB AM mods that were floating around about 15 years ago, you might as well just take a hammer to the rig. Want AM, then go buy a pair of Kenwood Twins (599 series) or go buy a boatanchor rig.

FYI: The "DH filter mod" was published in the Kenwood User Group newsletter that was around back in the 80's through the early 90's. There was lots of great info on the 70's and 80's Kenwood rigs in those newsletters.

Pete, wa2cwa

On Thu, 17 Aug 2006 07:08:15 -0000 "Jeroen" <jeroen_aletta@...>
writes:
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
> wrote:
> >
> > Are you referring to the AM Mod for TS-830. I have that info. i
> found
> it a couple of days ago. If thats what your looking for reply back
> with
> where you want it sent and I'll give the web adress.
> >
> > SNIP
>
> Hi John,
>
> I don't think Dan was referring to the AM-mod, but I am most
> certainly
> interested in the AM-mod. Could you post the web address in the
> Links
> section? If not, an e-mail would be very much appreciated.
>
> Tnx!
> 73 de PF1JM Jeroen

8805. RE: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 11:22:15 UTC
From: ballen
Topic: 8761 Message: 8805

What did you actually find as the issue in the radio that caused the no transmit condition? I have one here that has the very same symptoms. Brad

---

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Richard Harris
Sent: Thursday, August 17, 2006 3:02 AM
To: 'TS-520_820_530_830@yahoogroups.com'
Subject: RE: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

Hi Ken,

One source of 0.01uF 2kV disc capacitors in the UK is Farnell part number 921-660. I haven't looked at the circuit to assess suitability, but Farnell also have 150uH inductors in their catalogue e.g. 608-592 and 513-490. Farnell will accept credit card orders

Please note that the above part numbers are from the 2005 catalogue and are for components with lead-solder tinning. You will need to check their web site as these parts may have been replaced by lead-free parts which will carry a new part number.

73s,

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com]On Behalf Of Hauser, Ron M.
Sent: 16 August 2006 01:02
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Ts-820S No transmit/no alc/no drive/no output

DOES ANY BODY IN THE UK KNOW WERE I CAN PURCHASE TWO SMALL PARTS FOR MY RIG ABOVE.THEY ARE CIRCUIT REF C8 A DISC CERAMIC CAPACITOR 0.01uF@2000v AND CIRCUIT REF L1 A 150uH CHOKE, AS I NEED THESE TO COMPLETE THE REPAIR AFTER TOTAL VALVE REPLACEMENT AND CATHODE AND SCREEN GRID RESISTOR CHANGE.
ANY HELP WOULD BE APPRECIATED.
73&88 TO ALL.
KEN

G3SDW....

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8806. Re: [TS-520_820_530_830] Re: TS-830s, DH button to select 1st & 2nd IF cw filters & AM mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 18:22:40 UTC
From: John Harp
Topic: 8804 Message: 8806

Your right Peter, that person was doing 11 meter mods and adding AM to 25 watts. Advanced class liscence too. I should have looked into it further. Thank You.

Peter A Markavage <pmarkavage@...> wrote: Review around page 60 to 62 of the service manual for the additional
circuit board (relays, some discrete components, and a 6 KHz filter) that adds AM capability to the 830 and effectively makes it an 830M. Kenwood's comment to me years ago about adding this board was that it wasn't worth doing. 830S was designed with SSB and CW as the primary modes. If it was one of the CB AM mods that were floating around about 15 years ago, you might as well just take a hammer to the rig. Want AM, then go buy a pair of Kenwood Twins (599 series) or go buy a boatanchor rig.

FYI: The "DH filter mod" was published in the Kenwood User Group newsletter that was around back in the 80's through the early 90's. There was lots of great info on the 70's and 80's Kenwood rigs in those newsletters.

Pete, wa2cwa

On Thu, 17 Aug 2006 07:08:15 -0000 "Jeroen" <jeroen_aletta@...>
writes:
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
> wrote:
> >
> > Are you referring to the AM Mod for TS-830. I have that info. i
> found
> it a couple of days ago. If thats what your looking for reply back
> with
> where you want it sent and I'll give the web adress.
> >
> > SNIP
>
> Hi John,
>
> I don't think Dan was referring to the AM-mod, but I am most
> certainly
> interested in the AM-mod. Could you post the web address in the
> Links
> section? If not, an e-mail would be very much appreciated.
>
> Tnx!
> 73 de PF1JM Jeroen

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8807. Re: [TS-520_820_530_830] Re: TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 18:38:47 UTC
From: John Harp
Topic: 8774 Message: 8807

When you pull the tubes to replace them, be careful about how you handle the parasitic chokes that connect on top of the tubes. and visually check all parts inside. I usually clean my PA while I am at it and oil the fan as well.

Have you ordered tubes yet? and are you going to run the radio by itself or with an amp?

jon_77449 <jledbetter8@...> wrote:
Thanks for the help,Tried tuning today and and it worked but on the plate and drive tuning moving the knobs 1/32" could make it go completely through the tuning sweep,so I beleive it is the tubes that finally went south.
Thanks, Jon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Jon, firstcheck your grid switch on the back to make sure it's turned on. Second replace those old tubes with some 6146's B's or W's. Cost around 40 bucks. Then neutralize the radio. Those tubes may be old, but something else may be going on. That's where to start.
>
> jon_77449 <jledbetter8@...> wrote: I come home today and my ts-520 won't transmit.It receives fine, don't
> smell any burnt parts just turned it on,warmed up then tried to tune
> and nothing.the finals say s2001a, so they must be original.Could it
> be just the tubes or do I have bigger problems?
> Jon
>
>
>
>
>
>
> ---
> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8808. Re: [TS-520_820_530_830] Re: TS-830s, using DH button to select 1st & 2nd IF cw filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 18:25:44 UTC
From: John Harp
Topic: 8789 Message: 8808

Tnks. I was wondering if it was one of those 11 meter mods again.

dan_w7wa <dan_w7wa@...> wrote: Thanks but that mod allows for using the cw filters in modes other
than cw. To clarify further, the mod I am looking for allows the
user in the CW-N position to use just the 1st IF cw filter (DH
button out) or use both the 1st and 2nd IF cw filters in combination
(DH button in). Thus this mod sort of provides a "CW-Narrow" and "CW-
Narrower" option.

Dan W7WA

--- In TS-520_820_530_830@yahoogroups.com, "Hauser, Ron M."
<eichmann@...> wrote:
>
> Hi Dan. Interesting that you mention this, as I have been looking
at
> making a similar mod for my TS820. Here is the link:
>
> http://www.radiomods.co.nz/kenwood/kenwoodts830.html
>
> Note that the text in this page is not in the best shape, it looks
like
> someone imported it through an interface and some letters and
characters
> didn't quite make it. Since I was looking at doing a similar mod,
I
> imported the text and edited it to the best of my understanding.
The
> following is my interpretation of the section from the above page,
with
> capital letters and corrections added. The normal disclaimers
apply...
> If anyone sees any errors feel free to point them out and I will
update
> my text.
>
> 73
> --Ron
> KC0TLN
>
> ----------
> Kenwood TS-830 filter modification
>

>
> Here is an easy filter modification for the Kenwood TS-830s.
First to
> use this mod, your rig needs the YK-88c and to make it even
better, the
> YG-455c installed. In short what we are going to do, is move
around a 9
> volt switching voltage. This voltage comes from the AF board,
connector
> no. 7, pin no. 5. It's marked RLR on the schematic. This voltage
ends
> up at the PLL assembly, connector no. 8, pin no. VP2. Please
don't try
> this modification by cutting in this circuit at the source,
because this
> same switching voltage feeds the IF shift circuit, and the VBT
circuit,
> and the PLL. So cutting the wire at the AF board will make the PLL
> unlock when the mode switch is anywhere but in the CW positions.
Now to
> the procedures:
>
>
> 1. Remove the top and bottom covers, and turn the radio upside
down with
> front facing you.
>
> 2. Locate the mode switch, and on the middle wafer set of
contacts, cut
> the white wire with the blue stripe. It is located next to the
terminal
> with no connection, on the middle wafer set of contacts. Leave
about
> 1/4 inch of wire on the switch contact, so you can make a
connection
> there later.
>
> 3. You will need a another switch, one with at least three
terminals,
> with the center terminal always in contact with one or the other
of the
> outside contacts. It's best to use a toggle type so you can mount
it in
> one of the spare holes on the back of the radio.
>
> 4. Splice into the wire removed from the mode switch, and connect
this
> wire to the center of your new switch.
>
> 5. From one (you select) of the side terminals of the new switch,

> connect a wire and run it back to the mode switch. connect this
wire to
> the terminal on the mode switch from which you removed the white
wire
> with the blue stripe. You did leave that 1/4 inch of wire didn't
you?
> Take care here, the grey wire next to the one you are working on
carries
> 110 volts, so don't make any solder shorts!
>
> 6. Now from the remaining terminal of your new switch, connect and
run a
> wire to the IF board to pins CW1-CW4. Connect this wire to the
green
> wire, that is connected to one of these pins. You will then have
two
> wires connected to one of these terminals.
>
> 7. Make sure that you have no solder shorts or bridges, make sure
you
> have taped or insulated any bare wire connections. Mount the new
switch
> in one of the spare holes on the back of the radio. Install the
top and
> bottom covers.
>
>
> The modification works great, one position on the new switch and
> everything is normal, in the other position the cw filter is placed
> in-line regardless of the position of the mode switch. To use the
CW
> filters on RTTY/AMTOR I found I had to turn the IF shift control
CCW to
> about the 9:30 position to center the tones in the passband. If
you
> need an even narrower passband, just tighten it up a little with
the
> VBT.
>
>
>
>
> This transmission is intended for the sole use of the individual
and entity to whom it is addressed. Privileged and confidential
information may be contained in this message. You are hereby
notified that any dissemination, distribution, or duplication of
this transmission by someone other then the intended addressee or
its designated agent is strictly prohibited.
> Opinions, conclusions and other information in this message that
do not relate to the official business of my organization shall be

understood as neither given nor endorsed by it.
> If your receipt of this transmission is in error, please notify
this company immediately by reply to this transmission.
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8809. Re: TS-520 and 60m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 21:23:33 UTC
From: valuedprofile
Topic: 697 Message: 8809

I'm thinking about adding the four crystals in the Channel Select
switch to get at least four of the handful of frequencies for Oregon
MARS 60m use. I'm looking to find the specifics and calculations to
get the right ones. Any comments or suggestions?

73, Frank K2NCC

--- In TS-520_820_530_830@yahoogroups.com, Bill <coorsbill@...> wrote:
>
> Nope.
>
> The xtals are to be used to replace the VFO on a
> particular, existing Band.
>
> Since the 820 has PLL you could mod it but it would be
> more work than it's worth, I think
>
> for the 520 you would need a het crystal for 60m, and
> you would have to rip off 80M for it... not cool
> either, in my book.
>
> bill
>
> --- Bill <k2wh@...> wrote:
> > Since the both of these rigs have (4) crystal
> > controlled "Channels"
> > and the math to get the frequency you want is
> > established, can the
> > 820 & 520 be operated on the new 60 meters channels?
> >
> > K2WH
> >
> >
> >
> >
>
>
> =====
>
> see our website www.amateur-repairs.com
>
>
> _____
> Do you Yahoo!?
> Yahoo! SiteBuilder - Free, easy-to-use web site design software

> http://sitebuilder.yahoo.com
>

8810. New Group Kenwood QSO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 14:30:04 UTC
From: Walt Breining
Topic: 8810 Message: 8810

Kenwood QSO

Around a week ago, Ellen, AF9J came up with a great idea. We should get together on the air. Ellen tried a net and tried to get an informal rag chew going. Bit the force was not with her. There was a lot of interest in this but propagation was terrible.

Then another problem developed. People looking for each other created a lot of traffic on this site sending their frequencies and times back and forth. Ellen solved the problem by temporarily suspending this effort.

We have created a new Yahoo group to solve this problem. It is called Kenwood QSO.

This is a group for licensed Amateur Radio Operators to arrange for a QSO. It is intended for Amateurs to announce the time and frequency they will be on.

You must be a licensed Radio Amateur and a member of the TS-520_820_530_830 Group or the KenwoodMics Group to join.

Here is the URL. http://groups.yahoo.com/group/KenwoodQSO/

Vy 73, Ellen AF9J, Walt N9WB Co-owners.

[Non-text portions of this message have been removed]

8811. Re: [TS-520_820_530_830] Re: TS-520 and 60m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 21:41:51 UTC
From: David Rust
Topic: 697 Message: 8811

Frank K2NCC, you can give the radio model to International Crystal Company in Oklahama City, and tell them what frequencies you want them to come out on and they will grind them to work.

I have bought several sets of repeater crystals from them over the years and they have all been right on the money, with one exception, and they immediately sent me another one.

You can call them and order over the phone. The have a data base on any kind of radio oscillator I think there is out there.

Hope this helps.
73
Dave W0DLR

[Non-text portions of this message have been removed]

8812. Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 22:16:10 UTC
From: w5rkl
Topic: 8761 Message: 8812

Jack,

With zero output from the final your PA meter will not indicate any Ip current. There has to be RF output to indicate Ip current (final amplifier tube plate current). Without any output power from the RF amplifier final stage, there will be no ALC indication on the ALC meter position either. ALC is normally used with linear amplifier operation with the 820 through the 8 pin octical accessory socket on the rear. You will, however, have ALC readings "IF" there is output from the finals.

As for why you do not have output and the transmitter frequency is different than receive, providing your RIT is not turned on, the problem could be in the IF UNIT (X48-1150-00). I would suspect the output of the IF UNIT pin marked "TIF" is zero, no RF output. It appears that some mixing problems may also be a problem. Tracing the signal through until it disappears is the only way to find the problem area or component. A frequency counter placed on the "TIF" pin on the IF UNIT will show what frequency, if any, the 820 is transmitting on. The 820 service manual is a must have for doing this kind of troubleshooting.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi Group. I've recently aquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.
>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.
>

> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> prefiously replaced.
>
> I cannot find the current limiting resistor on the power supply board
> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.
>
> Jack - KF4YIO
>

8813. Re: [TS-520_820_530_830] Re: TS-520 and 60m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 22:54:12 UTC
From: John Harp
Topic: 697 Message: 8813

I asked that same question to Tim Davidson about a year ago. He said it could be done, but the results would dissappoint me. The reason is the TS-830S would have to be retuned and I'd be disappointed with the results. So I droppred the issue of the new band. I'd rather have all the other bands and the 830 be reliable.

valuedprofile <defaultprofile@...> wrote: I'm thinking about adding the four crystals in the Channel Select
switch to get at least four of the handful of frequencies for Oregon
MARS 60m use. I'm looking to find the specifics and calculations to
get the right ones. Any comments or suggestions?

73, Frank K2NCC

--- In TS-520_820_530_830@yahoogroups.com, Bill <coorsbill@...> wrote:
>
> Nope.
>
> The xtals are to be used to replace the VFO on a
> particular, existing Band.
>
> Since the 820 has PLL you could mod it but it would be
> more work than it's worth, I think
>
> for the 520 you would need a het crystal for 60m, and
> you would have to rip off 80M for it... not cool
> either, in my book.
>
> bill
>
> --- Bill <k2wh@...> wrote:
> > Since the both of these rigs have (4) crystal
> > controlled "Channels"
> > and the math to get the frequency you want is
> > established, can the
> > 820 & 520 be operated on the new 60 meters channels?
> >
> > K2WH
> >
> >
> >
> >
>
>
> =====
>
> see our website www.amateur-repairs.com

>
>
> _____
> Do you Yahoo!?
> Yahoo! SiteBuilder - Free, easy-to-use web site design software
> http://sitebuilder.yahoo.com
>

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8814. Re: [TS-520_820_530_830] New Group Kenwood QSO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-17 23:17:00 UTC
From: John Harp
Topic: 8810 Message: 8814

I'll try it. We need something to get on the air together.

Walt Breining <n9wb@...> wrote: Kenwood QSO

Around a week ago, Ellen, AF9J came up with a great idea. We should get together on the air. Ellen tried a net and tried to get an informal rag chew going. Bit the force was not with her. There was a lot of interest in this but propagation was terrible.

Then another problem developed. People looking for each other created a lot of traffic on this site sending their frequencies and times back and forth. Ellen solved the problem by temporarily suspending this effort.

We have created a new Yahoo group to solve this problem. It is called Kenwood QSO.

This is a group for licensed Amateur Radio Operators to arrange for a QSO. It is intended for Amateurs to announce the time and frequency they will be on.

You must be a licensed Radio Amateur and a member of the TS-520_820_530_830 Group or the KenwoodMics Group to join.

Here is the URL. http://groups.yahoo.com/group/KenwoodQSO/

Vy 73, Ellen AF9J, Walt N9WB Co-owners.

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8815. Re: [TS-520_820_530_830] Re: TS-520 and 60m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 01:34:07 UTC
From: Peter A Markavage
Topic: 697 Message: 8815

This is a waste of effort. One, you have to convert one band, most likely 75 or 160, two, you have to replace, rebuild, or retune, or all three, tuned circuits both on the receive and transmit side; three, how are you going to control the maximum 50 watt ERP for 60M with any of these rigs. A MARS frequency right outside an amateur band that exists on any of these rigs will work. The conversion to 60M on any of these rigs can be costly, value counterproductive, and most likely, will drive any resale value right down into the noise. A butchered up band on any of these rigs does not have much appeal.

Pete, wa2cwa

On Thu, 17 Aug 2006 21:23:33 -0000 "valuedprofile" <defaultprofile@...> writes:
> I'm thinking about adding the four crystals in the Channel Select
> switch to get at least four of the handful of frequencies for
> Oregon
> MARS 60m use. I'm looking to find the specifics and calculations
> to
> get the right ones. Any comments or suggestions?
>
> 73, Frank K2NCC
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill <coorsbill@...>
> wrote:
> >
> > Nope.
> >
> > The xtals are to be used to replace the VFO on a
> > particular, existing Band.
> >
> > Since the 820 has PLL you could mod it but it would be
> > more work than it's worth, I think
> >
> > for the 520 you would need a het crystal for 60m, and
> > you would have to rip off 80M for it... not cool
> > either, in my book.
> >
> > bill
> >
> > --- Bill <k2wh@...> wrote:
> > > Since the both of these rigs have (4) crystal
> > > controlled "Channels"
> > > and the math to get the frequency you want is
> > > established, can the

> > > 820 & 520 be operated on the new 60 meters channels?
> > >
> > > K2WH

8816. TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 01:38:27 UTC
From: w5rkl
Topic: 8816 Message: 8816

Hello everyone,

I'm new to the 820 group. I've been a ham for over 40 years and presently I'm working on a TS-820S, no receive.

It all started with a failure of the final cathode resistors (R2 and R3 - 10 ohm 1 watt) on the bottom of the final board (X56-1200-00). It appears a previous owner had replaced the original 10 ohm 1 watt resistors with 1/2 watt 20 ohm resistors in parallel. Prior to the resistor's cracking, receive was excellent.

Once both resistors were replaced with the proper values and wattage along with a new set of matched 6146 final tubes, power was applied to the 820. Everything appeared fine except receive sensitivity appeared to be a bit low using the onboard calibrator signal. Keying the 820 using the front panel transmit switch was normal and final tube idle current was brought up to 60 ma with no ill affect. Drive control appeared good by varying the driver control as well as both transmit and receive display frequencies were correct. Unkeying the 820 went normal except in receive there was no longer any IF noise coming from the speaker and the calibrator signal no longer could be heard. The calibrator is working correctly as is the audio stage.

The power supply is working correctly as is all other stages except the receive signal isn't getting through the RF UNIT on receive.

The problem is in the RF UNIT, receive portion, and I believe one of the following DUAL GATE N Channel MOSFET transistors have failed. It's either Q2, Q3, Q6 or Q7.

Attempting to locate a suitable replacement has been a problem. For Q2 (3K35 (GR)) I believe I have found what appears to be a close match, an NTE221 DUAL GATE N-CHANNEL MOSFET. However, for Q3, Q6 and Q7 (3SK41 (L)), I'm having difficulty finding a suitable replacement.

Anyone have any ideas or suggestions where I can find a replacement for a 3SK41 (L)? Althought Q2 is similiar in construction, I do not feel it will work in Q3, Q6 and/or Q7's place, maybe Q3 since Q3 simply amplifies what Q2 gives it but not Q6 or Q7.

Thanks in advance for any assistance.

73's,

Mike
W5RKL

8817. Re: TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 02:14:57 UTC
From: Gordon
Topic: 8816 Message: 8817

Mike, have you checked the 9v and the 3.3 volt circuits to be sure
they are adjusted correctly? Also, Check the diodes on the rectifier
board for the 14 V supply. Bad jojnts are common.
Next, I would check the connectors where they plug into the Rf board,
the AF-AVR board and the relay Boards.
Every 820 I have worked on, save one, has had bad terminals inside the
connectors. The other thing that comes to mind is possibly bad
contacts inside the Relay on the Relay Board. I had one 820 that had
multiple bad connector terminals on the Top of the RF board which gave
me very poor/ not at all, receive.
Make sure the Relay is working OK !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Hello everyone,
>
> I'm new to the 820 group. I've been a ham for over 40 years and
> presently I'm working on a TS-820S, no receive.
>
> It all started with a failure of the final cathode resistors (R2 and
> R3 - 10 ohm 1 watt) on the bottom of the final board (X56-1200-00).
> It appears a previous owner had replaced the original 10 ohm 1 watt
> resistors with 1/2 watt 20 ohm resistors in parallel. Prior to the
> resistor's cracking, receive was excellent.
>
> Once both resistors were replaced with the proper values and wattage
> along with a new set of matched 6146 final tubes, power was applied to
> the 820. Everything appeared fine except receive sensitivity appeared
> to be a bit low using the onboard calibrator signal. Keying the 820
> using the front panel transmit switch was normal and final tube idle
> current was brought up to 60 ma with no ill affect. Drive control
> appeared good by varying the driver control as well as both transmit
> and receive display frequencies were correct. Unkeying the 820 went
> normal except in receive there was no longer any IF noise coming from
> the speaker and the calibrator signal no longer could be heard. The
> calibrator is working correctly as is the audio stage.
>
> The power supply is working correctly as is all other stages except
> the receive signal isn't getting through the RF UNIT on receive.
>
> The problem is in the RF UNIT, receive portion, and I believe one of

> the following DUAL GATE N Channel MOSFET transistors have failed. It's
> either Q2, Q3, Q6 or Q7.
>
> Attempting to locate a suitable replacement has been a problem. For Q2
> (3K35 (GR)) I believe I have found what appears to be a close
> match, an NTE221 DUAL GATE N-CHANNEL MOSFET. However, for Q3, Q6 and
> Q7 (3SK41 (L)), I'm having difficulty finding a suitable replacement.
>
> Anyone have any ideas or suggestions where I can find a replacement
> for a 3SK41 (L)? Althought Q2 is similiar in construction, I do not
> feel it will work in Q3, Q6 and/or Q7's place, maybe Q3 since Q3
> simply amplifies what Q2 gives it but not Q6 or Q7.
>
> Thanks in advance for any assistance.
>
> 73's,
>
> Mike
> W5RKL
>

8818. Re: [TS-520_820_530_830] Re: TS-520 and 60m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 02:29:26 UTC
From: Bill Scurlock
Topic: 697 Message: 8818

Hi Frank.

If you want to work 60M with one of the older rigs, you might consider one of the "general coverage" transceivers, and open up the transmit restrictions - which is usually a very easy modification to do. For example, I have a couple of Icom 751A's, that are opened up to transmit on all frequencies, that I use in my shop as test instruments when working on the older radios I play with. They cost about the same as the TS-830's, and you can operate on any band or frequencies that may be made available to the amateurs. This is a lot easier solution than modifying one of the Kenwood hybrids. For a couple of hundred dollars more, there are a number of the newer radios that could be purchased used to put you on 60M also. Not trying to discourage you from modifying the Kenwood, just pointing out some alternatives for you to get on 60M. Good Luck.

73, Bill, K5GCW
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 17, 2006 8:34 PM
Subject: Re: [TS-520_820_530_830] Re: TS-520 and 60m

This is a waste of effort. One, you have to convert one band, most likely 75 or 160, two, you have to replace, rebuild, or retune, or all three, tuned circuits both on the receive and transmit side; three, how are you going to control the maximum 50 watt ERP for 60M with any of these rigs. A MARS frequency right outside an amateur band that exists on any of these rigs will work. The conversion to 60M on any of these rigs can be costly, value counterproductive, and most likely, will drive any resale value right down into the noise. A butchered up band on any of these rigs does not have much appeal.

Pete, wa2cwa

On Thu, 17 Aug 2006 21:23:33 -0000 "valuedprofile"
<defaultprofile@...> writes:
> I'm thinking about adding the four crystals in the Channel Select
> switch to get at least four of the handful of frequencies for
> Oregon
> MARS 60m use. I'm looking to find the specifics and calculations
> to
> get the right ones. Any comments or suggestions?
>
> 73, Frank K2NCC
>
> --- In TS-520_820_530_830@yahoogroups.com, Bill <coorsbill@...>
> wrote:
> >

> > Nope.
> >
> > The xtals are to be used to replace the VFO on a
> > particular, existing Band.
> >
> > Since the 820 has PLL you could mod it but it would be
> > more work than it's worth, I think
> >
> > for the 520 you would need a het crystal for 60m, and
> > you would have to rip off 80M for it... not cool
> > either, in my book.
> >
> > bill
> >
> > --- Bill <k2wh@...> wrote:
> > > Since the both of these rigs have (4) crystal
> > > controlled "Channels"
> > > and the math to get the frequency you want is
> > > established, can the
> > > 820 & 520 be operated on the new 60 meters channels?
> > >
> > > K2WH

[Non-text portions of this message have been removed]

8819. My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 02:59:06 UTC
From: Gordon
Topic: 8819 Message: 8819

I just received my newest project. I bought a TS-830S from a fellow that said he had a non-transmitting one he would sell. It arrived today via Fedex.
I plugged it into my transformer saver and turned it on. Everything lite up and it started receiving just fime. All the controls seemed to be pretty good except the ATT switch seems dirty. So, I shut it down, removed the transformer saver and plugged it back in. Then I turned it on and turned the heater switch on. So far so good. I checked the Idle current and it is at 65 ma, so I readjusted to 60ma. Ok, I switched to ALC and to the tune position. Right away the ALC deflected using the drive control, so I peaked it. Then I switched to cw and flipped the send switch, I peaked the Load and dipped the plate. Right away I noticed that peak output is slightly off from the plate dip. No big deal, just need to do so neutilization. So, I ended up with just over 100 watts out from a rig that was NOT supposed to transmit.
I then switched from the dummy load to the beam on 17 meters. I heard a fellow in CT calling cq. I gave him one quick call and he came right back to me. Gave me a 5/7 report with great audio. I gave him a 5/9. he was running 800 watts to a 5 element Quad. So, Now I am going to remove the covers, clean the controls and switches, blow out the Final Cage and then neutralize the finals. This 830 is probaly the most MINT looking 830 I have ever seen. It has two almost not noticable nicks and is super super clean. It even came with the External VFO-240 and the Narrow CW filter.

Gordon

8820. Re: [TS-520_820_530_830] My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 03:40:17 UTC
From: Ruben Echevarria
Topic: 8819 Message: 8820

Congratulations Gordon, I should send you mine.....
I'm waiting for one I bought thru E-Bay coming from L.A. should be here on monday.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 17, 2006 10:59:06 PM
Subject: [TS-520_820_530_830] My Newest Project TS-830S

I just received my newest project. I bought a TS-830S from a fellow
that said he had a non-transmitting one he would sell. It arrived
today via Fedex.
I plugged it into my transformer saver and turned it on. Everything
lite up and it started receiving just fime. All the controls seemed to
be pretty good except the ATT switch seems dirty. So, I shut it down,
removed the transformer saver and plugged it back in. Then I turned it
on and turned the heater switch on. So far so good. I checked the Idle
current and it is at 65 ma, so I readjusted to 60ma. Ok, I switched to
ALC and to the tune position. Right away the ALC deflected using the
drive control, so I peaked it. Then I switched to cw and flipped the
send switch, I peaked the Load and dipped the plate. Right away I
noticed that peak output is slightly off from the plate dip. No big
deal, just need to do so neutilization. So, I ended up with just over
100 watts out from a rig that was NOT supposed to transmit.
I then switched from the dummy load to the beam on 17 meters. I heard
a fellow in CT calling cq. I gave him one quick call and he came right
back to me. Gave me a 5/7 report with great audio. I gave him a 5/9.
he was running 800 watts to a 5 element Quad. So, Now I am going to
remove the covers, clean the controls and switches, blow out the Final
Cage and then neutralize the finals. This 830 is probaly the most MINT
looking 830 I have ever seen. It has two almost not noticable nicks
and is super super clean. It even came with the External VFO-240 and
the Narrow CW filter.

Gordon

[Non-text portions of this message have been removed]

8821. Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 04:17:10 UTC
From: Gordon
Topic: 8819 Message: 8821

Thanks Ruben,
I love working on these kenwoods. I even had to work on my 850
because all the Hybrids were fixed last week around here and I became
bored.. hi hi..
BTW, Nice dragster auction picture you sent me... But a Pink Roll
cage... I don't think so. Ronnie Sox wouldn't have driven it either.. hi .
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> Congratulations Gordon, I should send you mine.....
> I'm waiting for one I bought thru E-Bay coming from L.A. should be
here on monday.
>
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> http://www.moparts.org/moparts/picture/members/6/Ruben.html
>
>
>
> ----- Original Message ----
> From: Gordon <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, August 17, 2006 10:59:06 PM
> Subject: [TS-520_820_530_830] My Newest Project TS-830S
>
> I just received my newest project. I bought a TS-830S from a fellow
> that said he had a non-transmitting one he would sell. It arrived
> today via Fedex.
> I plugged it into my transformer saver and turned it on. Everything
> lite up and it started receiving just fime. All the controls seemed to
> be pretty good except the ATT switch seems dirty. So, I shut it down,
> removed the transformer saver and plugged it back in. Then I turned it
> on and turned the heater switch on. So far so good. I checked the Idle
> current and it is at 65 ma, so I readjusted to 60ma. Ok, I switched to
> ALC and to the tune position. Right away the ALC deflected using the
> drive control, so I peaked it. Then I switched to cw and flipped the
> send switch, I peaked the Load and dipped the plate. Right away I
> noticed that peak output is slightly off from the plate dip. No big
> deal, just need to do so neutilization. So, I ended up with just over
> 100 watts out from a rig that was NOT supposed to transmit.
> I then switched from the dummy load to the beam on 17 meters. I heard

> a fellow in CT calling cq. I gave him one quick call and he came right
> back to me. Gave me a 5/7 report with great audio. I gave him a 5/9.
> he was running 800 watts to a 5 element Quad. So, Now I am going to
> remove the covers, clean the controls and switches, blow out the Final
> Cage and then neutralize the finals. This 830 is probaly the most MINT
> looking 830 I have ever seen. It has two almost not noticable nicks
> and is super super clean. It even came with the External VFO-240 and
> the Narrow CW filter.
>
> Gordon
>
>
>
>
> [Non-text portions of this message have been removed]
>

8822. Re: [SPAM] [TS-520_820_530_830] TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 06:01:04 UTC
From: Dennis Windle
Topic: 8822 Message: 8822

Mike;
The NTE222 is a replacement for the 3SSK41(L).

D.Windle

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 17, 2006 9:38 PM
Subject: [SPAM] [TS-520_820_530_830] TS-820 part substitution

Hello everyone,

I'm new to the 820 group. I've been a ham for over 40 years and presently I'm working on a TS-820S, no receive.

It all started with a failure of the final cathode resistors (R2 and R3 - 10 ohm 1 watt) on the bottom of the final board (X56-1200-00). It appears a previous owner had replaced the original 10 ohm 1 watt resistors with 1/2 watt 20 ohm resistors in parallel. Prior to the resistor's cracking, receive was excellent.

Once both resistors were replaced with the proper values and wattage along with a new set of matched 6146 final tubes, power was applied to the 820. Everything appeared fine except receive sensitivity appeared to be a bit low using the onboard calibrator signal. Keying the 820 using the front panel transmit switch was normal and final tube idle current was brought up to 60 ma with no ill affect. Drive control appeared good by varying the driver control as well as both transmit and receive display frequencies were correct. Unkeying the 820 went normal except in receive there was no longer any IF noise coming from the speaker and the calibrator signal no longer could be heard. The calibrator is working correctly as is the audio stage.

The power supply is working correctly as is all other stages except the receive signal isn't getting through the RF UNIT on receive.

The problem is in the RF UNIT, receive portion, and I believe one of the following DUAL GATE N Channel MOSFET transistors have failed. It's either Q2, Q3, Q6 or Q7.

Attempting to locate a suitable replacement has been a problem. For Q2 (3K35 (GR)) I believe I have found what appears to be a close match, an NTE221 DUAL GATE N-CHANNEL MOSFET. However, for Q3, Q6 and Q7 (3SK41 (L)), I'm having difficulty finding a suitable replacement.

Anyone have any ideas or suggestions where I can find a replacement for a 3SK41 (L)? Althought Q2 is similiar in construction, I do not feel it will work in Q3, Q6 and/or Q7's place, maybe Q3 since Q3 simply amplifies what Q2 gives it but not Q6 or Q7.

Thanks in advance for any assistance.

73's,

Mike
W5RKL

[Non-text portions of this message have been removed]

8823. Re: [TS-520_820_530_830] My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 05:13:35 UTC
From: David Rust
Topic: 8819 Message: 8823

Gordon, it sounds like you got a winner in the 830s. It good to hear if your good fortune.

Perhaps the previous owner never knew how to tune it up. I once knew an old gentleman that had plenty of money, bought a KWM2 transceiver. He took it home, kept it a while and someone asked him how it was doing (2 meter conversation) He said most bands it just doesnt work or put out anything. During that conversation the other gentleman asked him if he tuned it up on each band, how it responded. He said "Oh the fellow I got it from tuned it up for me just before I left his house with it" Poor guy never knew that it had to be retuned with some changes of frequency or bands. He never did figure it out, finally got rid of it. You may have one with the same past. (true story)

Some of them can figure that peak the drive and dip the plate, and some can't.
73 Dave W0DLR

[Non-text portions of this message have been removed]

8824. Re: [TS-520_820_530_830] TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 10:00:33 UTC
From: ian parkinson
Topic: 8758 Message: 8824

what info do you want about the ts 510 ?? de ian gee3yrq@...

Grant <VA7GO@...> wrote: Please forgive me for stepping a wee bit outside the group description
but I have not had much luck in contacting anyone with knowledge or
interest in the predecessor to the TS-520. I have had my bench crowded
by poor an old TS-510 Trio, along with the matching ext. VFO, power
supply and speaker for some years... a project that I started with the
best of intentions... is anyone inteterest or is this outside of
group subject matter... thx... grant

The all-new Yahoo! Mail goes wherever you go - free your email address from your Internet provider.

[Non-text portions of this message have been removed]

8825. Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 13:13:09 UTC
From: Jeroen
Topic: 8825 Message: 8825

Hi group,
I have an 830S in fairly good condition. When dipping the plate during tuning the rig into my dummy I notice quite a broad dip, not a nice narrow one. This makes dipping the plate not very easy. This happens on all bands. Tuning for maximum output with alternating plate and load on the other hand works very good. Max output into the dummy is approx. 100 W on the low bands and approx. 90 W on 10 meters. Do I have a problem, or is everything working fine?

73 de PF1JM Jeroen

8826. Re: [TS-520_820_530_830] Wanted Parts: Second Posting For TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 14:08:59 UTC
From: Max Harelik
Topic: 8721 Message: 8826

Thanks, John.

Max

John Harp wrote:

> The transformer says LOI-8I06-15. I burned one of the 120 primaries
> with a power surge in the shack. They say that the same transformer
> was used in the 530 and the 830 and one other one but I'm not sure
> what it was. I'm guessing the 820.
>
> Max Harelik <mharelik@...
> <mailto:mharelik%40comanchetx.com>> wrote: John, do you have a listing
> number? I coudn't find it (and I have a 530
> with a smoked xfmr). Thanks.
>

[Non-text portions of this message have been removed]

8827. Re: TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 14:43:51 UTC
From: digs4ruff
Topic: 8758 Message: 8827

Ian
Actually Grant was looking for someone to adopt his non progressing
restoration project. I most willingly stepped up and look forward to
actually having this rig on my work bench next winter. All the
questions will start then.
best regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, ian parkinson
<gee3yrq@...> wrote:
>
> what info do you want about the ts 510 ?? de ian gee3yrq@...
>
> Grant <VA7GO@...> wrote: Please forgive me for stepping a
wee bit outside the group description
> but I have not had much luck in contacting anyone with knowledge
or
> interest in the predecessor to the TS-520. I have had my bench
crowded
> by poor an old TS-510 Trio, along with the matching ext. VFO,
power
> supply and speaker for some years... a project that I started with
the
> best of intentions... is anyone inteterest or is this outside of
> group subject matter... thx... grant
>
>
>
>
>
>
> ---------------------------------
> The all-new Yahoo! Mail goes wherever you go - free your email
address from your Internet provider.
>
> [Non-text portions of this message have been removed]
>

8828. Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 15:16:24 UTC
From: AllanKB5DOH
Topic: 8828 Message: 8828

Hi, And good morning to all I checked with Jhonny Hobaugh kc5rvf and here is the radio he got hold of, Kenwood TS-700S 2m All Mode Transceiver and he needs the small jones plug so he can power it up. Should anyone have a location or thought of where he can get this drop me a line through the group here.

Thanks For your time.

May God Bless Everyone.
Allan = kb5doh

8829. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 16:21:03 UTC
From: John Harp
Topic: 8825 Message: 8829

It sounds ok to me so far. How old are the tubes? how bright is the filament? How hard were you driving it, was it in the ALC range on the meter, with the mic control set like it should? Your bias at 60ma.? The meter your using is it reliable on accuracy for the wattage your putting out? If all is correct, then Id say you have a good running radio. Don't drive it hard and you'll find it will last longer. Keep tunings quick too. My first radio when I first got it was like that. Good ALC for years. changed tubes a few times. this second one still is like that on certain bands into my full-size quarterwave. Maybe someone took good care of it or it wasn't used much or maybe it's been gone over and been cleaned and aligned. You probably have good tubes in there that are a good match and similar to what the radio originally came with combined with a good matching output. If your not sure you can try to neutralize the finals again, as the book says to do. but i'd say you got it on the sweet spot. Don't overdrive it and enjoy.

Jeroen <jeroen_aletta@...> wrote: Hi group,
I have an 830S in fairly good condition. When dipping the plate during tuning the rig into my dummy I notice quite a broad dip, not a nice narrow one. This makes dipping the plate not very easy. This happens on all bands. Tuning for maximum output with alternating plate and load on the other hand works very good. Max output into the dummy is approx. 100 W on the low bands and approx. 90 W on 10 meters. Do I have a problem, or is everything working fine?

73 de PF1JM Jeroen

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8830. Re: [TS-520_820_530_830] My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 16:33:02 UTC
From: John Harp
Topic: 8819 Message: 8830

Didn't yours get to you yet? I been waiting for you to get on the air.

Ruben Echevarria <ka2hhb_2000@...> wrote: Congratulations Gordon, I should send you mine.....
I'm waiting for one I bought thru E-Bay coming from L.A. should be here on monday.

Ruben Echevarria
ka2hhb_2000@yahoo.com
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 17, 2006 10:59:06 PM
Subject: [TS-520_820_530_830] My Newest Project TS-830S

I just received my newest project. I bought a TS-830S from a fellow
that said he had a non-transmitting one he would sell. It arrived
today via Fedex.
I plugged it into my transformer saver and turned it on. Everything
lite up and it started receiving just fime. All the controls seemed to
be pretty good except the ATT switch seems dirty. So, I shut it down,
removed the transformer saver and plugged it back in. Then I turned it
on and turned the heater switch on. So far so good. I checked the Idle
current and it is at 65 ma, so I readjusted to 60ma. Ok, I switched to
ALC and to the tune position. Right away the ALC deflected using the
drive control, so I peaked it. Then I switched to cw and flipped the
send switch, I peaked the Load and dipped the plate. Right away I
noticed that peak output is slightly off from the plate dip. No big
deal, just need to do so neutilization. So, I ended up with just over
100 watts out from a rig that was NOT supposed to transmit.
I then switched from the dummy load to the beam on 17 meters. I heard
a fellow in CT calling cq. I gave him one quick call and he came right
back to me. Gave me a 5/7 report with great audio. I gave him a 5/9.
he was running 800 watts to a 5 element Quad. So, Now I am going to
remove the covers, clean the controls and switches, blow out the Final
Cage and then neutralize the finals. This 830 is probaly the most MINT
looking 830 I have ever seen. It has two almost not noticable nicks
and is super super clean. It even came with the External VFO-240 and
the Narrow CW filter.

Gordon

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8831. Re: Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 16:40:31 UTC
From: digs4ruff
Topic: 8828 Message: 8831

Allan
The manual is available at
http://kb2ljj.serveftp.com/kenwood/AT-230_Schematic.pdf
It contains schematis which show what pins to connect to if you have
to rewire a different connector.
Also I note that this is NOT a Kenwood Hybrid
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "AllanKB5DOH" <a1mc@...>
wrote:
>
> Hi, And good morning to all I checked with Jhonny Hobaugh kc5rvf and
> here is the radio he got hold of, Kenwood TS-700S 2m All Mode
> Transceiver and he needs the small jones plug so he can power it up.
> Should anyone have a location or thought of where he can get this
drop
> me a line through the group here.
>
> Thanks For your time.
>
> May God Bless Everyone.
> Allan = kb5doh
>

8832. Re: [TS-520_820_530_830] My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 17:23:12 UTC
From: Ruben Echevarria
Topic: 8819 Message: 8832

No John not yet... But it's on the way. I have the tracking numbers.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

8833. Re: [TS-520_820_530_830] Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 19:32:52 UTC
From: Bill Scurlock
Topic: 8828 Message: 8833

Hi Allan. You might try Radio Shack. Don't know if you are looking for a 2 pin or 4 pin connector, but sometimes RS has these in their flat drawer component files. Sometimes they can order things they don't have in stock and have it shipped direct to the customer. You might try Mouser or Antique Radio also.

73, Bill, K5GCW
----- Original Message -----
From: AllanKB5DOH
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 18, 2006 10:16 AM
Subject: [TS-520_820_530_830] Good Morning

Hi, And good morning to all I checked with Jhonny Hobaugh kc5rvf and here is the radio he got hold of, Kenwood TS-700S 2m All Mode Transceiver and he needs the small jones plug so he can power it up. Should anyone have a location or thought of where he can get this drop me a line through the group here.

Thanks For your time.

May God Bless Everyone.
Allan = kb5doh

[Non-text portions of this message have been removed]

8834. Re: TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 20:33:31 UTC
From: james27613
Topic: 8816 Message: 8834

hi,

you can find substitute parts here
by using the crossreference tools

http://www.nteinc.com/

73 james ke4drn

8835. Re: TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 20:39:19 UTC
From: james27613
Topic: 8816 Message: 8835

hi,

while you are inside the radio, try cleaning the
tx/rx relay with some Deoxit on a business card
even if the contacts look clean.

I did this after reading a post from Pete, wa2cwa
and that cleared up the receive problem.

73 james ke4drn

8836. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 21:00:43 UTC
From: Peter A Markavage
Topic: 8825 Message: 8836

If your loading control is set too high, the dip will be less pronounced. With start of plate and load tune up, loading should be set to extreme counterclockwise position to determine "first" dip. After first dip, loading control can be advanced further clockwise. The closer you get to max. output, the less pronounced the dip will get.

Pete, wa2cwa

On Fri, 18 Aug 2006 13:13:09 -0000 "Jeroen" <jeroen_aletta@...> writes:
> Hi group,
> I have an 830S in fairly good condition. When dipping the plate
> during
> tuning the rig into my dummy I notice quite a broad dip, not a nice
>
> narrow one. This makes dipping the plate not very easy. This happens
>
> on all bands. Tuning for maximum output with alternating plate and
> load on the other hand works very good. Max output into the dummy is
>
> approx. 100 W on the low bands and approx. 90 W on 10 meters. Do I
> have a problem, or is everything working fine?
>
> 73 de PF1JM Jeroen

8837. Re: [TS-520_820_530_830] Re: TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 20:52:24 UTC
From: Peter A Markavage
Topic: 8816 Message: 8837

It does work better when you use one of my business cards.
Pete, wa2cwa

On Fri, 18 Aug 2006 20:39:19 -0000 "james27613" <james27613@...>
writes:
> hi,
>
> while you are inside the radio, try cleaning the
> tx/rx relay with some Deoxit on a business card
> even if the contacts look clean.
>
> I did this after reading a post from Pete, wa2cwa
> and that cleared up the receive problem.
>
> 73 james ke4drn

8838. Re: [TS-520_820_530_830] Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 20:55:06 UTC
From: Peter A Markavage
Topic: 8828 Message: 8838

Sounds like he's looking for the 4 pin Cinch Jones type cable female
connector.
Pete, wa2cwa

On Fri, 18 Aug 2006 14:32:52 -0500 "Bill Scurlock" <k5gcw@...>
writes:
> Hi Allan. You might try Radio Shack. Don't know if you are looking
> for a 2 pin or 4 pin connector, but sometimes RS has these in their
> flat drawer component files. Sometimes they can order things they
> don't have in stock and have it shipped direct to the customer. You
> might try Mouser or Antique Radio also.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: AllanKB5DOH
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, August 18, 2006 10:16 AM
> Subject: [TS-520_820_530_830] Good Morning
>
>
> Hi, And good morning to all I checked with Jhonny Hobaugh kc5rvf
> and
> here is the radio he got hold of, Kenwood TS-700S 2m All Mode
> Transceiver and he needs the small jones plug so he can power it
> up.
> Should anyone have a location or thought of where he can get this
> drop
> me a line through the group here.
>
> Thanks For your time.
>
> May God Bless Everyone.
> Allan = kb5doh

8839. Re: [TS-520_820_530_830] Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 21:11:33 UTC
From: David Rust
Topic: 8828 Message: 8839

4 pin Cinch Jones should be available thru Mouser or DigiKey.

Darn, stuff like that use to be available thru Allied Radio, Lafayette, or BA in Kansas City. Does that tell you how old I am? When I started Kilocycles were kilocycles, and I think they still are.
73
Dave W0DLR

[Non-text portions of this message have been removed]

8840. Re: TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 21:03:53 UTC
From: jon_77449
Topic: 8774 Message: 8840

I'll not be running an amp because I'm trying to setup stealth antennas such as slinky type dipole in the attic. I have not ordered tubes yet,budget's a bit tight right now. I've read the GE brand 6146w's are not recomended in kenwoods,is this true or has anybody used them?
Jon
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> When you pull the tubes to replace them, be careful about how you handle the parasitic chokes that connect on top of the tubes. and visually check all parts inside. I usually clean my PA while I am at it and oil the fan as well.
>
> Have you ordered tubes yet? and are you going to run the radio by itself or with an amp?
>
> jon_77449 <jledbetter8@...> wrote:
> Thanks for the help,Tried tuning today and and it worked but on the
> plate and drive tuning moving the knobs 1/32" could make it go
> completely through the tuning sweep,so I beleive it is the tubes
> that finally went south.
> Thanks, Jon
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Jon, firstcheck your grid switch on the back to make sure it's
> turned on. Second replace those old tubes with some 6146's B's or
> W's. Cost around 40 bucks. Then neutralize the radio. Those tubes
> may be old, but something else may be going on. That's where to
> start.
> >
> > jon_77449 <jledbetter8@> wrote: I come home today and
> my ts-520 won't transmit.It receives fine, don't
> > smell any burnt parts just turned it on,warmed up then tried to
> tune
> > and nothing.the finals say s2001a, so they must be original.Could
> it
> > be just the tubes or do I have bigger problems?
> > Jon
> >
> >

> >
> >
> >
> >
> > ---------------------------------
> > Do you Yahoo!?
> > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

8841. Re: [TS-520_820_530_830] Re: TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 22:16:30 UTC
From: John Harp
Topic: 8774 Message: 8841

I've heard that too. But I've used both without a problem. They say you can use the w's which are high dissipation tubes with an amplifier at a reduced output.. I use B's since I run both with and without amp. As for stealth antenns, I've run wires and such over the years. I just made a stealth full size quarter-wave on 40. It's in the open yard and you can't see it from the road, until you round the house into the back yard. The neigbors didn't know for a week it was there, they've never heard me on clock radios, TV's or phones or computers. I can remove it and it fits the CC&R and local zoning regs. I got neighbors you can see window to window just about. my back yard has a 70 by 70 area that is open and contains the whole antenna system. Yes, I run an amp. It only affects one touch lamp in our house and as soon as I move off that circuit that will disappear. It's just a voltage drop issue. Something to check out.

jon_77449 <jledbetter8@...> wrote: I'll not be running an amp because I'm trying to setup stealth
antennas such as slinky type dipole in the attic. I have not ordered
tubes yet,budget's a bit tight right now. I've read the GE brand
6146w's are not recomended in kenwoods,is this true or has anybody
used them?
Jon
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> When you pull the tubes to replace them, be careful about how you
handle the parasitic chokes that connect on top of the tubes. and
visually check all parts inside. I usually clean my PA while I am at
it and oil the fan as well.
>
> Have you ordered tubes yet? and are you going to run the radio
by itself or with an amp?
>
> jon_77449 <jledbetter8@...> wrote:
> Thanks for the help,Tried tuning today and and it worked
but on the
> plate and drive tuning moving the knobs 1/32" could make it go
> completely through the tuning sweep,so I beleive it is the tubes
> that finally went south.
> Thanks, Jon
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Jon, firstcheck your grid switch on the back to make sure it's
> turned on. Second replace those old tubes with some 6146's B's or
> W's. Cost around 40 bucks. Then neutralize the radio. Those tubes
> may be old, but something else may be going on. That's where to

> start.
> >
> > jon_77449 <jledbetter8@> wrote: I come home today and
> my ts-520 won't transmit.It receives fine, don't
> > smell any burnt parts just turned it on,warmed up then tried to
> tune
> > and nothing.the finals say s2001a, so they must be
original.Could
> it
> > be just the tubes or do I have bigger problems?
> > Jon
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Do you Yahoo!?
> > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8842. Re: [TS-520_820_530_830] Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 22:03:53 UTC
From: John Harp
Topic: 8828 Message: 8842

I heard they went to hertz.(hi-hi)

David Rust <dlrust@...> wrote:
4 pin Cinch Jones should be available thru Mouser or DigiKey.

Darn, stuff like that use to be available thru Allied Radio, Lafayette, or BA in Kansas City. Does that tell you how old I am? When I started Kilocycles were kilocycles, and I think they still are.
73
Dave W0DLR

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8843. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 22:18:52 UTC
From: John Harp
Topic: 8825 Message: 8843

OK, this is new to me. Thank You, and how is that adjusted?

Peter A Markavage <pmarkavage@...> wrote: If your loading control is set too high, the dip will be less pronounced.
With start of plate and load tune up, loading should be set to extreme counterclockwise position to determine "first" dip. After first dip, loading control can be advanced further clockwise. The closer you get to max. output, the less pronounced the dip will get.

Pete, wa2cwa

On Fri, 18 Aug 2006 13:13:09 -0000 "Jeroen" <jeroen_aletta@...>
writes:
> Hi group,
> I have an 830S in fairly good condition. When dipping the plate
> during
> tuning the rig into my dummy I notice quite a broad dip, not a nice
>
> narrow one. This makes dipping the plate not very easy. This happens
>
> on all bands. Tuning for maximum output with alternating plate and
> load on the other hand works very good. Max output into the dummy is
>
> approx. 100 W on the low bands and approx. 90 W on 10 meters. Do I
> have a problem, or is everything working fine?
>
> 73 de PF1JM Jeroen

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8844. Re: [TS-520_820_530_830] My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 22:24:54 UTC
From: John Harp
Topic: 8819 Message: 8844

Good, did you join the QSO group yet?

Ruben Echevarria <ka2hhb_2000@yahoo.com> wrote: No John not yet... But it's on the way. I have the tracking numbers.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8845. International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 22:53:48 UTC
From: WK9L
Topic: 8845 Message: 8845

I ask a while back but I receiveid no responce, Is there anyone on the board that has used a Internatinal radio crystal filter made in Newport Richie, Fl. I have one in a Ts 530sp that I would like to have some infomation on or paper work to. It is mounted on a small board and uses a preamp " I think" it is wired in on the I.F. board. I would like to move it to the narrow Filter slot, and it is a 2.1. Right now it is run in series with the 2.4 factory filters it works fine, But a bit narrow at times. any help would be greatly appreceited.
WK9L
Perry

8846. Looking for a replacement Power Transformer for the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 22:50:37 UTC
From: John Harp
Topic: 8846 Message: 8846

Does anybody know where I can find or get repaired a Power Transformer LOI-8I06-I5. Fro a TS-830? They also used them in the TS-530.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8847. Re: [TS-520_820_530_830] My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 23:01:55 UTC
From: Ruben Echevarria
Topic: 8819 Message: 8847

Yes John I enlisted .... (KenwoodQSO) ....
Now I have to install the new G5RV ..
Oh yeah and and repair number 1 TS830S .....
Hope number 2 will be up to par.

Ruben Echevarria
ka2hhb_2000@...
exracer1@verizon.net
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 18, 2006 6:24:54 PM
Subject: Re: [TS-520_820_530_830] My Newest Project TS-830S

Good, did you join the QSO group yet?

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: No John not yet... But it's on the way. I have the tracking numbers.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8848. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 23:19:23 UTC
From: Peter A Markavage
Topic: 8825 Message: 8848

How is what adjusted?
Pete, wa2cwa

On Fri, 18 Aug 2006 15:18:52 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> OK, this is new to me. Thank You, and how is that adjusted?

8849. Re: [TS-520_820_530_830] International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-18 23:23:13 UTC
From: Peter A Markavage
Topic: 8845 Message: 8849

Why don't you just contact International Radio at:
http://www.qth.com/inrad/
They're now in Oregon.

Pete
On Fri, 18 Aug 2006 22:53:48 -0000 "WK9L" <wk9l@...> writes:
> I ask a while back but I receiveid no responce, Is there anyone on
> the board that has used a Internatinal radio crystal filter made in
>
> Newport Richie, Fl. I have one in a Ts 530sp that I would like to
> have
> some infomation on or paper work to. It is mounted on a small board
>
> and uses a preamp " I think" it is wired in on the I.F. board. I
> would
> like to move it to the narrow Filter slot, and it is a 2.1. Right
> now
> it is run in series with the 2.4 factory filters it works fine, But
> a
> bit narrow at times. any help would be greatly appreceited.
> WK9L
> Perry

8850. Re: [TS-520_820_530_830] International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 03:55:04 UTC
From: Perry Cummins
Topic: 8845 Message: 8850

Its not the same company, They were bought out by inrad and these were made before the sale took place I have already talked to George. It is a International radio Company, Newport Richie, Fl.

Peter A Markavage <pmarkavage@...> wrote:
Why don't you just contact International Radio at:
http://www.qth.com/inrad/
They're now in Oregon.

Pete
On Fri, 18 Aug 2006 22:53:48 -0000 "WK9L" writes:
> I ask a while back but I receiveid no responce, Is there anyone on
> the board that has used a Internatinal radio crystal filter made in
>
> Newport Richie, Fl. I have one in a Ts 530sp that I would like to
> have
> some infomation on or paper work to. It is mounted on a small board
>
> and uses a preamp " I think" it is wired in on the I.F. board. I
> would
> like to move it to the narrow Filter slot, and it is a 2.1. Right
> now
> it is run in series with the 2.4 factory filters it works fine, But
> a
> bit narrow at times. any help would be greatly appreceited.
> WK9L
> Perry

Yahoo! Groups Links

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8851. TS520 with single final, 12 volt conversion RCA 6883 SDA tube, help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 05:22:11 UTC
From: m_m_maxau
Topic: 8851 Message: 8851

G'day guys

I Just grabbed a really rough old, but working TS520 and it runs the 12 volt final conversion, no 6146b's, but only one 6883 SDA tube.

Bottom line is that I need a new final tube, anyone able to sell me one or tell me where I can get one in Sydney?

I would like to keep the old beast running as, even though I bought it for parts, I cannot bring myself to destroy a working TS520 !!!!

Thanks
73
Anthony
VK2

8852. Re: [TS-520_820_530_830] International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 04:39:57 UTC
From: Rick May
Topic: 8845 Message: 8852

Hi Perry,

That is a 8.830 mhz. discrete crystal filter that is daisy chained in with your stock YK-88S ssb filter. The filter has ~6db loss and the lttle amp on the board compensates for this. This was done to increase the selectivity by adding the 8 pole filter along with the stock 6 pole one. You can pull it out of the circuit but you will have to jumper between where the input and output wires are tied in.I had one in a TS-530S back in the mid 80's... If I remember right (and this was over 20 years ago) I had to cut a trace on the board to insert the filter board in the I.F. chain... To add it in your narrow filter slot, you will have to use RG-174 coax and make short runs from the I.F. board to the filter and use double sided sticky tape to mount filter nearby. Remove the filter from the board when you do this. The Inrad filter is much larger than the stock YK kenwood filters. Make sure you isolate the + leads to the filter with .01uF ceramics as the radio will see a dead short otherwise.

73' Rick KC0HH
Lamar, Colorado

> I ask a while back but I receiveid no responce, Is there anyone on
> the board that has used a Internatinal radio crystal filter made in
>
> Newport Richie, Fl. I have one in a Ts 530sp that I would like to
> have
> some infomation on or paper work to. It is mounted on a small board
>
> and uses a preamp " I think" it is wired in on the I.F. board. I
> would
> like to move it to the narrow Filter slot, and it is a 2.1. Right
> now
> it is run in series with the 2.4 factory filters it works fine, But
> a
> bit narrow at times. any help would be greatly appreceited.
> WK9L
> Perry

Yahoo! Groups Links

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8853. Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 09:17:04 UTC
From: ron
Topic: 8819 Message: 8853

darn gordon, you have the worst luck!!!!!!

8855. Re: [TS-520_820_530_830] Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 12:41:32 UTC
From: Walt Breining
Topic: 8828 Message: 8855

Well I did that wrong. It's one of those days.

HZ = Cycles per second. kHz = Kilocycles per second.

That's better, sorry N9WB

----- Original Message -----
From: Walt Breining
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 19, 2006 7:16 AM
Subject: Re: [TS-520_820_530_830] Good Morning

HZ = kHz per second. N9WB
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 18, 2006 5:03 PM
Subject: Re: [TS-520_820_530_830] Good Morning

I heard they went to hertz.(hi-hi)

David Rust <dlrust@centurytel.net> wrote:
4 pin Cinch Jones should be available thru Mouser or DigiKey.

Darn, stuff like that use to be available thru Allied Radio, Lafayette, or
BA in Kansas City. Does that tell you how old I am? When I started
Kilocycles were kilocycles, and I think they still are.
73
Dave W0DLR

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.3/423 - Release Date: 8/18/06

[Non-text portions of this message have been removed]

8856. Re: [TS-520_820_530_830] International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 14:23:59 UTC
From: Perry Cummins
Topic: 8845 Message: 8856

Thanks Rick
You have it right. I had one of these a few years ago for a TS 520 but never installed it. It is installed now on sticky tape at the rear of the radio it was installed very nice. I just would like to take it out of the filter line when I want. Thanks for the information.
Perry
Rick May <kc0hh@...> wrote:
Hi Perry,

That is a 8.830 mhz. discrete crystal filter that is daisy chained in with your stock YK-88S ssb filter. The filter has ~6db loss and the lttle amp on the board compensates for this. This was done to increase the selectivity by adding the 8 pole filter along with the stock 6 pole one. You can pull it out of the circuit but you will have to jumper between where the input and output wires are tied in.I had one in a TS-530S back in the mid 80's... If I remember right (and this was over 20 years ago) I had to cut a trace on the board to insert the filter board in the I.F. chain... To add it in your narrow filter slot, you will have to use RG-174 coax and make short runs from the I.F. board to the filter and use double sided sticky tape to mount filter nearby. Remove the filter from the board when you do this. The Inrad filter is much larger than the stock YK kenwood filters. Make sure you isolate the + leads to the filter with .01uF ceramics as the radio will see a dead short otherwise.

73' Rick KC0HH
Lamar, Colorado

> I ask a while back but I receiveid no responce, Is there anyone on
> the board that has used a Internatinal radio crystal filter made in
>
> Newport Richie, Fl. I have one in a Ts 530sp that I would like to
> have
> some infomation on or paper work to. It is mounted on a small board
>
> and uses a preamp " I think" it is wired in on the I.F. board. I
> would
> like to move it to the narrow Filter slot, and it is a 2.1. Right
> now
> it is run in series with the 2.4 factory filters it works fine, But
> a
> bit narrow at times. any help would be greatly appreceited.
> WK9L
> Perry

Yahoo! Groups Links

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8857. Motorola Manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 14:42:12 UTC
From: ejastro2002
Topic: 8857 Message: 8857

I was weeding out some old stuff and came across this 1968 Motorola Semiconductor Data Book that almost made it into the trash. Anyone interested for the cost of shipping?

Edwin...n1dfb

8858. Re: Good Morning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 15:38:26 UTC
From: digs4ruff
Topic: 8828 Message: 8858

Walt
I bet that hurts.
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Walt Breining"
<n9wb@...> wrote:
>
> Well I did that wrong. It's one of those days.
>
> HZ = Cycles per second. kHz = Kilocycles per second.
>
> That's better, sorry N9WB
>
> ----- Original Message -----
> From: Walt Breining
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 19, 2006 7:16 AM
> Subject: Re: [TS-520_820_530_830] Good Morning
>
>
> HZ = kHz per second. N9WB
> ----- Original Message -----
> From: John Harp
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, August 18, 2006 5:03 PM
> Subject: Re: [TS-520_820_530_830] Good Morning
>
> I heard they went to hertz.(hi-hi)
>
> David Rust <dlrust@...> wrote:
> 4 pin Cinch Jones should be available thru Mouser or DigiKey.
>
> Darn, stuff like that use to be available thru Allied Radio,
Lafayette, or
> BA in Kansas City. Does that tell you how old I am? When I
started
> Kilocycles were kilocycles, and I think they still are.
> 73
> Dave W0DLR
>
>
>
>
>

>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.3/423 - Release Date:
8/18/06
>
>
> [Non-text portions of this message have been removed]
>

8859. Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 16:40:52 UTC
From: Gordon
Topic: 8819 Message: 8859

Hi Dave,
I'm pretty sure the gentleman knew how to operate the rig. He is the Original Owner and even sent me the original warranty card. he purchased the radio on October 9th, 1983. He installed the 270hz CW filter in 1983 and made DXCC with the rig.He told me that it had no idle current either, so I am wondering if he had just not turne the heater switch on or something. I am happy that it works so well and looks so good. I might just make this one a Keeper. The VFO-240 cable somehow got lost in shipping, but he is going to look again to see if it got left on his Bench by mistake.
Yep, I'm a HAPPY guy with this purchase. :-)

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Gordon, it sounds like you got a winner in the 830s. It good to hear if your good fortune.
>
> Perhaps the previous owner never knew how to tune it up. I once knew an old gentleman that had plenty of money, bought a KWM2 transceiver. He took it home, kept it a while and someone asked him how it was doing (2 meter conversation) He said most bands it just doesnt work or put out anything. During that conversation the other gentleman asked him if he tuned it up on each band, how it responded. He said "Oh the fellow I got it from tuned it up for me just before I left his house with it" Poor guy never knew that it had to be retuned with some changes of frequency or bands. He never did figure it out, finally got rid of it. You may have one with the same past. (true story)
>
> Some of them can figure that peak the drive and dip the plate, and some can't.
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

8860. Re: TS-820 part substitution

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 16:45:10 UTC
From: Gordon
Topic: 8816 Message: 8860

I have heard that before.. hi hi..
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> It does work better when you use one of my business cards.
> Pete, wa2cwa
>
> On Fri, 18 Aug 2006 20:39:19 -0000 "james27613" <james27613@...>
> writes:
> > hi,
> >
> > while you are inside the radio, try cleaning the
> > tx/rx relay with some Deoxit on a business card
> > even if the contacts look clean.
> >
> > I did this after reading a post from Pete, wa2cwa
> > and that cleared up the receive problem.
> >
> > 73 james ke4drn
>

8861. Re: TS520 with single final, 12 volt conversion RCA 6883 SDA tube, help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 17:53:01 UTC
From: Gordon
Topic: 8851 Message: 8861

Anthony,
there are a few offered on ebay.
Here is one:
http://cgi.ebay.com/RCA-6883-Electron-Tube-NOS-Nice-Ham-Radio_W0QQitemZ270018760152QQihZ017QQcategoryZ48710QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "m_m_maxau"
<agoodridge@...> wrote:
>
> G'day guys
>
> I Just grabbed a really rough old, but working TS520 and it runs the
> 12 volt final conversion, no 6146b's, but only one 6883 SDA tube.
>
> Bottom line is that I need a new final tube, anyone able to sell me
> one or tell me where I can get one in Sydney?
>
> I would like to keep the old beast running as, even though I bought it
> for parts, I cannot bring myself to destroy a working TS520 !!!!
>
> Thanks
> 73
> Anthony
> VK2
>

8862. Re: [TS-520_820_530_830] International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 19:19:29 UTC
From: Peter A Markavage
Topic: 8845 Message: 8862

You might want to drop N8RT, Robert Pohorence, an e-mail. He's listed up on QRZ with his bio which includes the start of International Radio back in the 80's. Maybe he still has some info floating around.

Pete, wa2cwa

On Fri, 18 Aug 2006 20:55:04 -0700 (PDT) Perry Cummins <wk9l@...> writes:
> Its not the same company, They were bought out by inrad and these
> were made before the sale took place I have already talked to
> George. It is a International radio Company, Newport Richie, Fl.

8863. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-19 23:13:36 UTC
From: John Harp
Topic: 8825 Message: 8863

I was referring to the plate tuning control. You said it could be adjusted for deeper dip. I had never hreard of it and figured I'd inquire. I have an two 830S. My one is down and the other doesn't dip as well sometimes and others it dips quick and sharp.

Peter A Markavage <pmarkavage@...> wrote: How is what adjusted?
Pete, wa2cwa

On Fri, 18 Aug 2006 15:18:52 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> OK, this is new to me. Thank You, and how is that adjusted?

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8864. Re: [TS-520_820_530_830] International radio filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 02:45:01 UTC
From: Perry Cummins
Topic: 8845 Message: 8864

Thanks
Perry

Peter A Markavage <pmarkavage@...> wrote:
You might want to drop N8RT, Robert Pohorence, an e-mail. He's listed up
on QRZ with his bio which includes the start of International Radio back
in the 80's. Maybe he still has some info floating around.

Pete, wa2cwa

On Fri, 18 Aug 2006 20:55:04 -0700 (PDT) Perry Cummins
writes:
> Its not the same company, They were bought out by inrad and these
> were made before the sale took place I have already talked to
> George. It is a International radio Company, Newport Richie, Fl.

Yahoo! Groups Links

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8865. speaking of a good dip.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 12:41:40 UTC
From: scott
Topic: 8865 Message: 8865

Hi to the group, I have a ? about dipping the plate, when I tune on 40 meters, I don't get much of a dip at all. I have good output, (about 125 watts on MFJ tuner's meter), and all the readings in the various positions as outlined in the manual are as they should be. I was wonering if the dip gets more pronounced as the freq. gets higher. I don't move off 40 too much, I suppose I could tune the different bands, but would like some feedback from more experienced users. This is a TS-520S by the way. I follow the tune up sequence exactly but it seems to me that I got more of a dip on my FT-101ZD, but that was 6 years ago so I'm not sure. Thanks for any replies and info. cheers scott. KG6BRG.

8866. Re: [TS-520_820_530_830] speaking of a good dip.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 13:52:03 UTC
From: David Rust
Topic: 8865 Message: 8866

Scott, there are some variables in that dip thing. Sometimes it depends on where the Load control is set. If you have an inline watt meter or swr bridge you might take a look at the output swing on the meter there. I wouldn't worry about it, so its dipped and not getting excessively hot.

I have noticed some bands are more pronounced than other on the plate current swing. I had an old Viking Valiant that was touch as heck on some bands and others pretty lazy acting on the dip.

73
Dave

[Non-text portions of this message have been removed]

8867. VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 17:06:49 UTC
From: Gordon
Topic: 8867 Message: 8867

Can anyone tell me if the cable used to connect the TS-830S to the
External VFO-240 is just a STRAIGHT through cable with 8 Pin DIN
connectors on each end ? I'm looking at the schematic for each and it
looks as if it is, but I want to be sure before I make one up.
Or, Does anyone have an extra cable for sale ?
73,
Gordon
N6WK

8868. W2FNT News

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 17:12:34 UTC
From: Ruben Echevarria
Topic: 8868 Message: 8868

I'd like to report for those that know him:
John Kakstys W2FNT is at the Veterans Memorial Home – Menlo Park.
Most Hams from the New Jersey, New York, Connecticut area I'm pretty sure
know who John is. A great guy. He's helped many a new ham as well as old timers.
I've known John since the mid 70's. Purchased lots of gear from him. This is a
guy that always stood behind all of his sales. His word was gold. Truly honest.
I was recently shocked when I called his house looking for him and was told by
his wife that he was at the VA Home in Menlo Park.
Currently I'm trying to get more information.
At the same time trying to respect their privacy.
I'm sure he would appreciate a get well QSL card or just a get well card from his friends.

Ok here is the latest info: John Kakstys W2FNT
V.A. Memorial Home – Menlo Park
132 Evergreen Road Room 631
Edison, N.J. 08818

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

8869. Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 17:46:36 UTC
From: George W7ZVD
Topic: 8819 Message: 8869

Howdy
I recently found a screamin' deal on my TS 830 S, got it with the AT 230 for $75 both in the original boxes. It had been sitting on a shelf for quite a number of years. I had to go in and wiggle all the connectors inside, but everything seems to be working like new now (knock wood). Both units look like they had never been out of the box. The WARC bands had not even been opened up. Thanx to this group I found the right wire (not 2 as the manual says) and rather than cutting (again per manual) I was able to get the contact out of the connector and tape it off. This leaves the possibility of putting it back into the condition in which it originally left the factory. So far I have been nothing but happy with this radio. Have worked all the bands except 160, have to put up another wire for that one (soon!).
73 and enjoy
George Copeland W7ZVD
Ham Radio is a Contact Sport...MAKE ONE !

[Non-text portions of this message have been removed]

8870. RE: [TS-520_820_530_830] Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 17:55:13 UTC
From: Ken Gunton
Topic: 8819 Message: 8870

George, congratulations on your deal! They only seem to come around once in a lifetime, so take good care of that baby. Out of curiosity: What tubes are in the final sockets?

Ken, W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of George W7ZVD
Sent: Sunday, August 20, 2006 1:47 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: My Newest Project TS-830S

Howdy
I recently found a screamin' deal on my TS 830 S, got it with the AT 230 for $75 both in the original boxes. It had been sitting on a shelf for quite a number of years. I had to go in and wiggle all the connectors inside, but everything seems to be working like new now (knock wood). Both units look like they had never been out of the box. The WARC bands had not even been opened up. Thanx to this group I found the right wire (not 2 as the manual says) and rather than cutting (again per manual) I was able to get the contact out of the connector and tape it off. This leaves the possibility of putting it back into the condition in which it originally left the factory. So far I have been nothing but happy with this radio. Have worked all the bands except 160, have to put up another wire for that one (soon!). 73 and enjoy George Copeland W7ZVD Ham Radio is a Contact Sport...MAKE ONE !

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8871. no meter response when peaking drive ts530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 22:33:32 UTC
From: elamcreekranch
Topic: 8871 Message: 8871

recently i consulted the group here and at eham.net with the sypmtom of fading meter when trying to peak the drive. Most, including me, suspected the 12by7a driver tube. Just to provide feedback, I replaced the tube and the rig works like new. Thanks to all who provided advice and guidance. rltusch kg5iq

8872. Re: [TS-520_820_530_830] VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 23:23:31 UTC
From: Bill Scurlock
Topic: 8867 Message: 8872

Gordon, if you do not get an anwer to your question, let me know and I will go down to the barn and ohm out my cable and let you know. I use a VFO-240 with my 830S. We have a house full of family celebrating a birthday right now.

73, Bill, K5GCW
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 20, 2006 12:06 PM
Subject: [TS-520_820_530_830] VFO-240 Cable

Can anyone tell me if the cable used to connect the TS-830S to the
External VFO-240 is just a STRAIGHT through cable with 8 Pin DIN
connectors on each end ? I'm looking at the schematic for each and it
looks as if it is, but I want to be sure before I make one up.
Or, Does anyone have an extra cable for sale ?
73,
Gordon
N6WK

[Non-text portions of this message have been removed]

8873. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-20 23:35:26 UTC
From: Peter A Markavage
Topic: 8825 Message: 8873

Probably no need to rehash the entire dip and load procedure since it's documented in Section 4 of the 830 operating manual and also on the "files" section here. Things to remember; the load tuning is on the antenna side of the tank coil whereas the plate tuning is on the plate side of the tank coil. You normally want to have the minimum amount of load capacitance to the antenna for maximum output at plate tank resonance (the dip). A quick look at the various tuning procedures don't document where the initial setting of the load control should be. If you start your tuning procedure with the load control set to high, adjusting the plate tuning control for dip may not bring about a very discernible dip (or may appear to be a "wide" dip) in the plate current, because you may be already near, or gone beyond, the setting for correct load capacitance to your antenna or dummy load (or whatever you're loading the transmitter into). If you're going to do "dip and load procedure" you should always start with a minimum amount of load capacitance to determine the initial dip. Then, increase the load control a few degrees and dip again; then increase the load again and dip again, etc. until you reach the maximum plate current spec. for the rig or the maximum plate current you want to use. As you move higher and higher with the plate current scale with this procedure, "the dip" will become less and less pronounced. When you reach a point where you no longer can see "the dip", you have reached maximum or have gone beyond the correct load capacitance. If you desire to keep your rig and final tubes with long life, you will want to stay below this point.

Pete, wa2cwa

On Sat, 19 Aug 2006 16:13:36 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> I was referring to the plate tuning control. You said it could be
> adjusted for deeper dip. I had never hreard of it and figured I'd
> inquire. I have an two 830S. My one is down and the other doesn't
> dip as well sometimes and others it dips quick and sharp.
>

8874. Re: no meter response when peaking drive ts530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 01:01:51 UTC
From: Ellen R
Topic: 8871 Message: 8874

You're welcome! :)

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "elamcreekranch"
<elamcreekranch@...> wrote:
>
> recently i consulted the group here and at eham.net with the sypmtom
of
> fading meter when trying to peak the drive. Most, including me,
> suspected the 12by7a driver tube. Just to provide feedback, I
replaced
> the tube and the rig works like new. Thanks to all who provided
advice
> and guidance. rltusch kg5iq
>

8875. Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 02:52:43 UTC
From: DW
Topic: 8875 Message: 8875

Hi gang,

Does anyone have any experience with abnormal
fluctuations in the AC main voltage?

Here's the basics. I live in an apartment built in
1962. Currently, on average, we blow a light bulb
every two to three days, including GE, Sylvania, &c.
By this I meanwhile lit, not when switched on.

Landlord brought in an electrician, who said line
voltage is bouncing from 100-140VAC. No problems with
any household electronics, & I run my 2M, scanner, &
SW rcvr off of a gel cell W/ a trickle charger.

I plan to set up my TS520, but wanted to go through
the mains rather than pull that much amperage from the
12V system. Anything unusual I should be looking for,
or doing differently other than toroids, groundstraps,
&c. I'm concerned that a high V spike could fry this
thing, which will be my primary HF rig.

Thanks,

DW White KE6WYB

Shasta County California CN80

<><God, Country, Corps><>

Semper Fi!

AR

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8876. TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 07:09:23 UTC
From: joe sloss
Topic: 8876 Message: 8876

Just brought a friends 830S home to service and notice that when the marker is activated (by the switch) the display vanishes and there is no audio white noise or received audio. Have not started to look at it yet but thought I'd toss out the problem for comments.

Tha nks,

Joe k7mks

[Non-text portions of this message have been removed]

8877. Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 13:51:25 UTC
From: james27613
Topic: 8875 Message: 8877

hi DW,

100-140vac is a big swing, no wonder you're loosing lightbulbs.

I'd give the electric company a call, based on the age of your
building, I bet some equipment needs to be replaced.

If you can find a nice used full sinewave ups, that will help keep
the kenwood from blowing the tube filiments.

Or a powerline conditioner will do the job but are more expensive.

note the regular computer type ups are not full sinewave and
are not intended to be used with transformer equipment.

73 james ke4drn

8878. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 14:31:47 UTC
From: Rick May
Topic: 8875 Message: 8878

Hello,

Yes, I have experience with what you describe with the voltage fluctuating...Mine turned out to be a ground fault! You have 240vac coming into the main fuse panel and it is divided into 120vac on each side. If you do not have a good ground on the power coming into your building your voltage will fluctuate between the two legs. It will still total 240vac but one leg might be 160vac and the other 80vac. If it is a ground fault, this can be very dangerous. In our case, it burned up a television and a toaster got hot enough to melt the heating elements. The circuit braker tripped. The problem turned out to be a corroded ground connection on the transformer coming into our house. It let the voltage 'float' Have somebody do more than just check the AC voltage.

73' Rick KC0HH

DW <andersonradioactivity@yahoo.com> wrote: Hi gang,

Does anyone have any experience with abnormal
fluctuations in the AC main voltage?

Here's the basics. I live in an apartment built in
1962. Currently, on average, we blow a light bulb
every two to three days, including GE, Sylvania, &c.
By this I meanwhile lit, not when switched on.

Landlord brought in an electrician, who said line
voltage is bouncing from 100-140VAC. No problems with
any household electronics, & I run my 2M, scanner, &
SW rcvr off of a gel cell W/ a trickle charger.

I plan to set up my TS520, but wanted to go through
the mains rather than pull that much amperage from the
12V system. Anything unusual I should be looking for,
or doing differently other than toroids, groundstraps,
&c. I'm concerned that a high V spike could fry this
thing, which will be my primary HF rig.

Thanks,

DW White KE6WYB

Shasta County California CN80

<><God, Country, Corps><>

Semper Fi!

AR

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8879. Re: [TS-520_820_530_830] TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 14:47:05 UTC
From: Rick May
Topic: 8876 Message: 8879

Hi Joe,

Whoa....Never heard of this one..I wonder if someone did some kind of mod to it? If it was on my bench, I would check the voltage regulation on the AF/AVR board as it sounds like they are being pulled down somehow with the marker. Or, have an Exorcism performed first.....

73' Rick KC0HH
Lamar, Colorado

joe sloss <k7mks@...> wrote: Just brought a friends 830S home to service and notice that when the marker is activated (by the switch) the display vanishes and there is no audio white noise or received audio. Have not started to look at it yet but thought I'd toss out the problem for comments.

Tha nks,

Joe k7mks

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8880. Looking for an AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 15:11:39 UTC
From: Ken Gunton
Topic: 8761 Message: 8880

Does anyone in the group have an AT-230
they want to part with? I've been trying
to find one is excellent condition, but
the ones on E-Bay seem to be fetching
too much money. My TS-830S needs a better
tuner than the MFJ-949E I'm currently
using, and the XYL is beginning to comment
on how well-coordinated the shack looks.

So far, I have the matching station monitor,
speaker, and external vfo.

I'm soon to be the owner of a TS-570S(G) so
I can work six meters once it starts opening
up again. I tried and tried to get a
Kenwood transverter to no avail.

Thanks,
Ken W8ASA

8881. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 15:29:05 UTC
From: Randy Morton
Topic: 8875 Message: 8881

AT the very least, invest in some varistors. They're $1.50 or less and they'll clip the voltage spikes. You can make your own distribution panel for the Ham gear and add the varistors there. Be sure to add fuses to the panel. A varistor act like a capacitor until the voltage spike comes along and then it acts like a resistor. A sustained spike might draw too much current and act like a short. The best course is, of course, to find and eliminate the reason for the spikes. Sometimes that's just not possible. My Dad lives out in the country and kept losing small appliances (mainly bread machines) due to voltage spikes. We added varistors to the outlet and the problem went away.

Randy (KE5EOT)

On 8/20/06, DW <andersonradioactivity@yahoo.com> wrote:
>
> Hi gang,
>
> Does anyone have any experience with abnormal
> fluctuations in the AC main voltage?
>
> Here's the basics. I live in an apartment built in
> 1962. Currently, on average, we blow a light bulb
> every two to three days, including GE, Sylvania, &c.
> By this I meanwhile lit, not when switched on.
>
> Landlord brought in an electrician, who said line
> voltage is bouncing from 100-140VAC. No problems with
> any household electronics, & I run my 2M, scanner, &
> SW rcvr off of a gel cell W/ a trickle charger.
>
> I plan to set up my TS520, but wanted to go through
> the mains rather than pull that much amperage from the
> 12V system. Anything unusual I should be looking for,
> or doing differently other than toroids, groundstraps,
> &c. I'm concerned that a high V spike could fry this
> thing, which will be my primary HF rig.
>
> Thanks,
>
> DW White KE6WYB
>
> Shasta County California CN80
>
> <><God, Country, Corps><>
>

> Semper Fi!
>
> AR
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>

[Non-text portions of this message have been removed]

8882. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 15:41:28 UTC
From: Sherrill Colford
Topic: 8875 Message: 8882

Why not try a computer ups and surge suppresser and
run TS530 off that. That should take care of any over
and under voltage problems.

--- DW <andersonradioactivity@...> wrote:

> Hi gang,
>
> Does anyone have any experience with abnormal
> fluctuations in the AC main voltage?
>
> Here's the basics. I live in an apartment built in
> 1962. Currently, on average, we blow a light bulb
> every two to three days, including GE, Sylvania, &c.
>
> By this I meanwhile lit, not when switched on.
>
> Landlord brought in an electrician, who said line
> voltage is bouncing from 100-140VAC. No problems
> with
> any household electronics, & I run my 2M, scanner, &
> SW rcvr off of a gel cell W/ a trickle charger.
>
> I plan to set up my TS520, but wanted to go through
> the mains rather than pull that much amperage from
> the
> 12V system. Anything unusual I should be looking
> for,
> or doing differently other than toroids,
> groundstraps,
> &c. I'm concerned that a high V spike could fry
> this
> thing, which will be my primary HF rig.
>
> Thanks,
>
> DW White KE6WYB
>
> Shasta County California CN80
>
> <><God, Country, Corps><>
>
> Semper Fi!
>
> AR

>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8883. Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 15:56:20 UTC
From: Ken Gunton
Topic: 8875 Message: 8883

Please tell your landlord to CALL THE POWER COMPANY!!

This is a very dangerous situation, and the
power company needs to correct it immediately.

The landlord's electrician should have known
to call the power company. With a possible
ground fault, they usually respond very quickly.
At least around here they do. YMMV.

Ken, W8ASA

8884. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 16:33:39 UTC
From: David Rust
Topic: 8875 Message: 8884

I believe a floating neutral or a neutral above ground could result in death if you were handling something like a metal toaster, etc. If you become the ground thru some metal grounded object, I would think that's the end of the line??
Am I thinking correct?
73, be careful, Dave W0DLR

[Non-text portions of this message have been removed]

8885. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 17:35:38 UTC
From: John Harp
Topic: 8875 Message: 8885

If your talking about a floating neutral yes, we've had those here on several occasions.

David Rust <dlrust@...> wrote: I believe a floating neutral or a neutral above ground could result in death if you were handling something like a metal toaster, etc. If you become the ground thru some metal grounded object, I would think that's the end of the line??
Am I thinking correct?
73, be careful, Dave W0DLR

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8886. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 17:41:21 UTC
From: John Harp
Topic: 8875 Message: 8886

The correction was already done. This was over a year ago. It was the power companies side. The damage was already corrected. The settlement for the damaged items is already paid. They had a floating neutral at the pole. The old wire was replaces and since then the sevice going down the road has been upgraded. So far it's been a little quieter too. The old service was being a problem once a year. But when the new housing development went in down the road, the service was upgraded.

Ken Gunton <ken@...> wrote: Please tell your landlord to CALL THE POWER COMPANY!!

This is a very dangerous situation, and the
power company needs to correct it immediately.

The landlord's electrician should have known
to call the power company. With a possible
ground fault, they usually respond very quickly.
At least around here they do. YMMV.

Ken, W8ASA

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8887. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 17:50:02 UTC
From: John Harp
Topic: 8875 Message: 8887

Well that's what I'm trying to get to next. For a while I also ran of another more reliable line. Now that i've corrected a problem with the line to the shack (which is outside the house) I'm watching for more problems with the power fluxuating. One of the things I also did was to run 220 for the linear to the shed also. outlets have now been installed and some insulation has been put in the walls for the winter, as well as improvements to the entry point such as better ramps including an abrasive painted surface for better traction to walk on for the winter. Just to get the station moved out of the house was a major task.

Sherrill Colford <spudcol@...> wrote: Why not try a computer ups and surge suppresser and run TS530 off that. That should take care of any over
and under voltage problems.

--- DW <andersonradioactivity@...> wrote:

> Hi gang,
>
> Does anyone have any experience with abnormal
> fluctuations in the AC main voltage?
>
> Here's the basics. I live in an apartment built in
> 1962. Currently, on average, we blow a light bulb
> every two to three days, including GE, Sylvania, &c.
>
> By this I meanwhile lit, not when switched on.
>
> Landlord brought in an electrician, who said line
> voltage is bouncing from 100-140VAC. No problems
> with
> any household electronics, & I run my 2M, scanner, &
> SW rcvr off of a gel cell W/ a trickle charger.
>
> I plan to set up my TS520, but wanted to go through
> the mains rather than pull that much amperage from
> the
> 12V system. Anything unusual I should be looking
> for,
> or doing differently other than toroids,
> groundstraps,
> &c. I'm concerned that a high V spike could fry
> this
> thing, which will be my primary HF rig.
>
> Thanks,
>
> DW White KE6WYB
>

> Shasta County California CN80
>
> <><God, Country, Corps><>
>
> Semper Fi!
>
> AR
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8888. Re: [TS-520_820_530_830] Looking for a replacement Power Transformer for the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 18:05:17 UTC
From: N3DOK
Topic: 8846 Message: 8888

Hi John, East Coast Parts (1-800-632-3323) has this listing for a Power Transformer for a TS-830S.
Good Luck,
Bob N3DOK

http://www.kenwoodparts.com/parts/find.php

L01-8106-05 TS-530S TS-830S PWR TRANS. L01-8106-15 $127.33
Discont. L01-8116-05 (D) TRANSFORMER W/DS-2 TAP TS-830S L01-8116-15 $133.18
Discont. L01-8116-15 (D) POWER TRANS TS-830S $111.79

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 18, 2006 6:50 PM
Subject: [TS-520_820_530_830] Looking for a replacement Power Transformer for the TS-830S

Does anybody know where I can find or get repaired a Power Transformer LOI-8I06-I5. Fro a TS-830? They also used them in the TS-530.

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8889. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 18:14:10 UTC
From: John Harp
Topic: 8875 Message: 8889

well that's the point I was making Randy in the previous E-Mail I wrote. The wiring has been updated. Moving the radio station has been a major undertaking but has also been a major step in the right direction. For example: I no longer bother anybody with noise or the TV isn't interfered with now. The noise floor has dropped tremendously. It's so much more quiet now. The new ground is less only about 6 feet long made of 3 inch copper strap to it's own ground rod. The upgrade of the transmission line has helped greatly. The new antenna has made getting a signal in and out much better. Now I don't run on extension cords. There's 220 for the Amplifier instead of running it on 120. the neighbors no longer hear me at all, and they are alot happier with my new antennas. I'm not an eyesore. I'm invisible. Now I will build a new power bus for the new radio bench complete with just like you said, "varistors". There's already circuit breakers and the staion is on it's own breakerbox
all by itself. building the ground mounted vertical with 56 radials in the ground and running the 1/2 inch hardline has been a very time consuming task. I haven't even made the beverage yet.

I've worked alot of overtime these last couple of years to pay for this goal combined with alot of work done here on the property to add to the list. It only goes so fast. That radio has been down a year now, and a second one has been in it's place for about six months. a remote VFO added. The keyer was replaced too. It only can be done so fast.

Randy Morton <ke5eot@...> wrote:
AT the very least, invest in some varistors. They're $1.50 or less and
they'll clip the voltage spikes. You can make your own distribution
panel for the Ham gear and add the varistors there. Be sure to add fuses to
the panel. A varistor act like a capacitor until the voltage spike comes
along and then it acts like a resistor. A sustained spike might draw too
much current and act like a short. The best course is, of course, to find
and eliminate the reason for the spikes. Sometimes that's just not
possible. My Dad lives out in the country and kept losing small appliances
(mainly bread machines) due to voltage spikes. We added varistors to the
outlet and the problem went away.

Randy (KE5EOT)

On 8/20/06, DW <andersonradioactivity@yahoo.com> wrote:
>
> Hi gang,
>
> Does anyone have any experience with abnormal
> fluctuations in the AC main voltage?
>
> Here's the basics. I live in an apartment built in
> 1962. Currently, on average, we blow a light bulb
> every two to three days, including GE, Sylvania, &c.
> By this I meanwhile lit, not when switched on.

>
> Landlord brought in an electrician, who said line
> voltage is bouncing from 100-140VAC. No problems with
> any household electronics, & I run my 2M, scanner, &
> SW rcvr off of a gel cell W/ a trickle charger.
>
> I plan to set up my TS520, but wanted to go through
> the mains rather than pull that much amperage from the
> 12V system. Anything unusual I should be looking for,
> or doing differently other than toroids, groundstraps,
> &c. I'm concerned that a high V spike could fry this
> thing, which will be my primary HF rig.
>
> Thanks,
>
> DW White KE6WYB
>
> Shasta County California CN80
>
> <><God, Country, Corps><>
>
> Semper Fi!
>
> AR
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8890. Re: [TS-520_820_530_830] Looking for a replacement Power Transformer for the TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 18:23:38 UTC
From: John Harp
Topic: 8846 Message: 8890

Thank You. When I went there before I looked at the one below it and thought it was discontinued. Now when I go back to work, I can get the part. Thank you. It's suprising what i've found since I lost my job, and had time to get some things done that I couldn't do before with all the O.T. Thanks again.

N3DOK <n3dok@...> wrote: Hi John, East Coast Parts (1-800-632-3323) has this listing for a Power Transformer for a TS-830S.
Good Luck,
Bob N3DOK

http://www.kenwoodparts.com/parts/find.php

L01-8106-05 TS-530S TS-830S PWR TRANS. L01-8106-15 $127.33
Discont. L01-8116-05 (D) TRANSFORMER W/DS-2 TAP TS-830S L01-8116-15 $133.18
Discont. L01-8116-15 (D) POWER TRANS TS-830S $111.79

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 18, 2006 6:50 PM
Subject: [TS-520_820_530_830] Looking for a replacement Power Transformer for the TS-830S

Does anybody know where I can find or get repaired a Power Transformer LOI-8I06-I5. Fro a TS-830? They also used them in the TS-530.

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

8891. Re: [TS-520_820_530_830] VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 18:27:34 UTC
From: Bill Scurlock
Topic: 8867 Message: 8891

Hi Gordon.

I researched the schematics for the TS-830S, TS-530S, VFO-230, and VFO-240 regarding the cable for a remote vfo. I believe you are correct in that the pins appear to be wired direct pin-to-pin on each end of the cable. Here is what I found for the 8 pin remote vfo sockets on the radios and on the VFO's.

Pin 1 - the "hot" Remote VFO signal going to the PLL Unit connector 6 pin 1 (TS-530S). Note that the radio internal VFO signal goes to connector 5 pin 2 (PLL Unit).

Pin 2 - Identified as "RL" going to the AF Unit connector 6 pin 6 (TS-530S). Also identified as "RL" in the VFO-240 and VFO-230.

Pin 3 - Identified as "9" (volts?) going to the AF Unit connector 6 pin 7 (TS-530S). Also identified as "9" in the VFO-240 and VFO-230.

Pin 4 - Identified as "RLC" going to pin 1 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS530S). There is no connection to pin 4 for VFO-240, but there is a connection in the VFO-230.

Pin 5 - Identified as "VFB" going to pin 3 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS-530S). The connection to this pin 5 for the VFO-240 is identified as "MCO". In VFO-230, this signal is identified as "VFB".

Pin 6 - Identified as "0.5" going to the Counter Unit X54-1540-00 connector 1 pin 2. There is no connection to pin 6 for VFO-240, but there is a connection in VFO-230 identified as "5.00".

Pin 7 - This is a ground connection used to shield the "hot" vfo signal lead.

Pin 8 - Identified as "12" in the TS-530 and goes to several places including the Counter Unit connector 1 pin 3, and the RF Unit connector 6 pin 2. In VFO-240 this signal is identified as "14" and provides power to PL1 and PL2. There is no connection to this pin in VFO-230.

I used the interconnection/schematic diagram for the TS-530S for the above references because Kenwood drew it line-for-line , whereas the TS-830 diagram draws one line for multiple conductors where you have to follow all the "breakouts" to figure out where the conductors are going which is a little more time consuming.

It appears that you can use a 6 conductor cable if you only plan to use the VFO-240, or a 7 conductor cable if you only plan to use the VFO-230. But if you plan to use the same cable for either VFO, then you will need to use 8 conductors. The VFO-240 is made to use with either the TS-530S or TS-830S.

This was an interesting exercise. Maybe it helped you a little.

73, Bill, K5GCW
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 20, 2006 12:06 PM
Subject: [TS-520_820_530_830] VFO-240 Cable

Can anyone tell me if the cable used to connect the TS-830S to the
External VFO-240 is just a STRAIGHT through cable with 8 Pin DIN
connectors on each end ? I'm looking at the schematic for each and it
looks as if it is, but I want to be sure before I make one up.
Or, Does anyone have an extra cable for sale ?
73,
Gordon
N6WK

[Non-text portions of this message have been removed]

8892. Re: [TS-520_820_530_830] Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:37:26 UTC
From: Walt Breining
Topic: 8819 Message: 8892

WOW! That was a better deal than my $45.00 TS 820S Congratulations!
Vy 73, Walt N9WB

----- Original Message -----
From: George W7ZVD
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 20, 2006 12:46 PM
Subject: [TS-520_820_530_830] Re: My Newest Project TS-830S

Howdy
I recently found a screamin' deal on my TS 830 S, got it with the AT 230 for $75 both in the original boxes. It had been sitting on a shelf for quite a number of years.

73 and enjoy
George Copeland W7ZVD
Ham Radio is a Contact Sport...MAKE ONE !

8893. Re: [TS-520_820_530_830] Looking for an AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 18:47:55 UTC
From: John Harp
Topic: 8761 Message: 8893

Keep trying E-Bay for the Transverters. I set up My E-Bay to watch for them and a KB-1 and an HC-10 clock. I've stuck presently to my Versa Tuner V for now. Someday I'll get the TL-922 also.

Ken Gunton <ken@...> wrote:
Does anyone in the group have an AT-230
they want to part with? I've been trying
to find one is excellent condition, but
the ones on E-Bay seem to be fetching
too much money. My TS-830S needs a better
tuner than the MFJ-949E I'm currently
using, and the XYL is beginning to comment
on how well-coordinated the shack looks.

So far, I have the matching station monitor,
speaker, and external vfo.

I'm soon to be the owner of a TS-570S(G) so
I can work six meters once it starts opening
up again. I tried and tried to get a
Kenwood transverter to no avail.

Thanks,
Ken W8ASA

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8894. Re: [TS-520_820_530_830] VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 18:50:36 UTC
From: John Harp
Topic: 8867 Message: 8894

Bill I keep seeing them on E-Bay. Watch for them there.

Bill Scurlock <k5gcw@...> wrote: Hi Gordon.

I researched the schematics for the TS-830S, TS-530S, VFO-230, and VFO-240 regarding the cable for a remote vfo. I believe you are correct in that the pins appear to be wired direct pin-to-pin on each end of the cable. Here is what I found for the 8 pin remote vfo sockets on the radios and on the VFO's.

Pin 1 - the "hot" Remote VFO signal going to the PLL Unit connector 6 pin 1 (TS-530S). Note that the radio internal VFO signal goes to connector 5 pin 2 (PLL Unit).

Pin 2 - Identified as "RL" going to the AF Unit connector 6 pin 6 (TS-530S). Also identified as "RL" in the VFO-240 and VFO-230.

Pin 3 - Identified as "9" (volts?) going to the AF Unit connector 6 pin 7 (TS-530S). Also identified as "9" in the VFO-240 and VFO-230.

Pin 4 - Identified as "RLC" going to pin 1 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS530S). There is no connection to pin 4 for VFO-240, but there is a connection in the VFO-230.

Pin 5 - Identified as "VFB" going to pin 3 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS-530S). The connection to this pin 5 for the VFO-240 is identified as "MCO". In VFO-230, this signal is identified as "VFB".

Pin 6 - Identified as "0.5" going to the Counter Unit X54-1540-00 connector 1 pin 2. There is no connection to pin 6 for VFO-240, but there is a connection in VFO-230 identified as "5.00".

Pin 7 - This is a ground connection used to shield the "hot" vfo signal lead.

Pin 8 - Identified as "12" in the TS-530 and goes to several places including the Counter Unit connector 1 pin 3, and the RF Unit connector 6 pin 2. In VFO-240 this signal is identified as "14" and provides power to PL1 and PL2. There is no connection to this pin in VFO-230.

I used the interconnection/schematic diagram for the TS-530S for the above references because Kenwood drew it line-for-line , whereas the TS-830 diagram draws one line for multiple conductors where you have to follow all the "breakouts" to figure out where the conductors are going which is a little more time consuming.

It appears that you can use a 6 conductor cable if you only plan to use the VFO-240, or a 7 conductor cable if you only plan to use the VFO-230. But if you plan to use the same cable for either VFO, then you will need to use 8 conductors. The VFO-240 is made to use with either the TS-530S or TS-830S.

This was an interesting exercise. Maybe it helped you a little.

73, Bill, K5GCW
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 20, 2006 12:06 PM
Subject: [TS-520_820_530_830] VFO-240 Cable

Can anyone tell me if the cable used to connect the TS-830S to the
External VFO-240 is just a STRAIGHT through cable with 8 Pin DIN
connectors on each end ? I'm looking at the schematic for each and it
looks as if it is, but I want to be sure before I make one up.
Or, Does anyone have an extra cable for sale ?
73,
Gordon
N6WK

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

8895. Re: [TS-520_820_530_830] no meter response when peaking drive ts530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:16:41 UTC
From: John Harp
Topic: 8871 Message: 8895

Yes I learned that one recently on my 830.

elamcreekranch <elamcreekranch@...> wrote: recently i consulted the group here and at eham.net with the sypmtom of
fading meter when trying to peak the drive. Most, including me,
suspected the 12by7a driver tube. Just to provide feedback, I replaced
the tube and the rig works like new. Thanks to all who provided advice
and guidance. rltusch kg5iq

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8896. Re: [TS-520_820_530_830] Broad plate dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:19:55 UTC
From: John Harp
Topic: 8825 Message: 8896

Thank You.

Peter A Markavage <pmarkavage@...> wrote: Probably no need to rehash the entire dip and load procedure since it's
documented in Section 4 of the 830 operating manual and also on the
"files" section here. Things to remember; the load tuning is on the
antenna side of the tank coil whereas the plate tuning is on the plate
side of the tank coil. You normally want to have the minimum amount of
load capacitance to the antenna for maximum output at plate tank
resonance (the dip). A quick look at the various tuning procedures don't
document where the initial setting of the load control should be. If you
start your tuning procedure with the load control set to high, adjusting
the plate tuning control for dip may not bring about a very discernible
dip (or may appear to be a "wide" dip) in the plate current, because you
may be already near, or gone beyond, the setting for correct load
capacitance to your antenna or dummy load (or whatever you're loading the
transmitter into). If you're going to do "dip and load procedure" you
should always start with a minimum amount of load capacitance to
determine the initial dip. Then, increase the load control a few degrees
and dip again; then increase the load again and dip again, etc. until
you reach the maximum plate current spec. for the rig or the maximum
plate current you want to use. As you move higher and higher with the
plate current scale with this procedure, "the dip" will become less and
less pronounced. When you reach a point where you no longer can see "the
dip", you have reached maximum or have gone beyond the correct load
capacitance. If you desire to keep your rig and final tubes with long
life, you will want to stay below this point.

Pete, wa2cwa

On Sat, 19 Aug 2006 16:13:36 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> I was referring to the plate tuning control. You said it could be
> adjusted for deeper dip. I had never hreard of it and figured I'd
> inquire. I have an two 830S. My one is down and the other doesn't
> dip as well sometimes and others it dips quick and sharp.
>

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8897. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:11:18 UTC
From: John Harp
Topic: 8875 Message: 8897

Do not put your 530 on that voltage fluxuation. It'll wind up like my 530 did. Get the power fixed first. Then use a good ground and put UPS or at least some varistors on the power going in. I wound up buying another radio till I get this one fixed. It's cheaper to correct the problem first. Mine it turned out to be the electric company and they replaced the answering machine, the TV, the Microwave the Refrigerator and all the other stuff by a check six months later in a settlement, after we paid for an electrician to determine where the problem was. Turned out the problem was at the pole on the road. It started out like yours did. blown light bulbs and the lights changed brightness. It's a fire hazard too.

DW <andersonradioactivity@yahoo.com> wrote: Hi gang,

Does anyone have any experience with abnormal
fluctuations in the AC main voltage?

Here's the basics. I live in an apartment built in
1962. Currently, on average, we blow a light bulb
every two to three days, including GE, Sylvania, &c.
By this I meanwhile lit, not when switched on.

Landlord brought in an electrician, who said line
voltage is bouncing from 100-140VAC. No problems with
any household electronics, & I run my 2M, scanner, &
SW rcvr off of a gel cell W/ a trickle charger.

I plan to set up my TS520, but wanted to go through
the mains rather than pull that much amperage from the
12V system. Anything unusual I should be looking for,
or doing differently other than toroids, groundstraps,
&c. I'm concerned that a high V spike could fry this
thing, which will be my primary HF rig.

Thanks,

DW White KE6WYB

Shasta County California CN80

<><God, Country, Corps><>

Semper Fi!

AR

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8898. Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:22:52 UTC
From: George W7ZVD
Topic: 8819 Message: 8898

I have not opened the box with the finals, so I don't know what is there. I am sure they are the ones that came from the factory in it. Everything inside looks untouched (except where I touched it) I figured if it aint broke, don't fix it.
73 de George W7ZVD

[Non-text portions of this message have been removed]

8899. Re: [TS-520_820_530_830] Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:31:23 UTC
From: John Harp
Topic: 8819 Message: 8899

Cogradulations on your catch there George. Now come on out and be my first QSO for WAS with that equipment. See you on the air. Nice work.

George W7ZVD <w7zvd@...> wrote: Howdy
I recently found a screamin' deal on my TS 830 S, got it with the AT 230 for $75 both in the original boxes. It had been sitting on a shelf for quite a number of years. I had to go in and wiggle all the connectors inside, but everything seems to be working like new now (knock wood). Both units look like they had never been out of the box. The WARC bands had not even been opened up. Thanx to this group I found the right wire (not 2 as the manual says) and rather than cutting (again per manual) I was able to get the contact out of the connector and tape it off. This leaves the possibility of putting it back into the condition in which it originally left the factory. So far I have been nothing but happy with this radio. Have worked all the bands except 160, have to put up another wire for that one (soon!).
73 and enjoy
George Copeland W7ZVD
Ham Radio is a Contact Sport...MAKE ONE !

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8900. Re: [TS-520_820_530_830] Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:40:55 UTC
From: John Harp
Topic: 8819 Message: 8900

Bring it up and load it carefully into a dummy load. See what it does. the manual is there with it isn't it? If the radiolooks clean inside and the fan is lubricated, You should be in for a pleasant suprise at using this radio. You'll soon find out why this is a favorate.

George W7ZVD <w7zvd@...> wrote: I have not opened the box with the finals, so I don't know what is there. I am sure they are the ones that came from the factory in it. Everything inside looks untouched (except where I touched it) I figured if it aint broke, don't fix it.
73 de George W7ZVD

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8901. Re: [TS-520_820_530_830] speaking of a good dip.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:51:04 UTC
From: John Harp
Topic: 8865 Message: 8901

Scott, my one 830 is the same way as David's. I often wondered till today if it wasn't my antenna. It loads differently at various bands and even frequencies. Like 10 and 160. They are wide bands and require alot of retuning. I know what you mean, sometimes I say the same thing. I just learned to record my settings to be close to where I want.

David Rust <dlrust@...> wrote: Scott, there are some variables in that dip thing. Sometimes it depends on where the Load control is set. If you have an inline watt meter or swr bridge you might take a look at the output swing on the meter there. I wouldn't worry about it, so its dipped and not getting excessively hot.

I have noticed some bands are more pronounced than other on the plate current swing. I had an old Viking Valiant that was touch as heck on some bands and others pretty lazy acting on the dip.

73
Dave

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

8902. TL-922

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 19:43:43 UTC
From: Ken Gunton
Topic: 8761 Message: 8902

Universal Radio has a TL-922, I think.
They want about a grand for it. I saw
it when I visited them last Saturday.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of John Harp
Sent: Monday, August 21, 2006 2:48 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Looking for an AT-230

Keep trying E-Bay for the Transverters. I set up My E-Bay to watch for them
and a KB-1 and an HC-10 clock. I've stuck presently to my Versa Tuner V for
now. Someday I'll get the TL-922 also.

Ken Gunton <ken@...> wrote:
Does anyone in the group have an AT-230
they want to part with? I've been trying
to find one is excellent condition, but
the ones on E-Bay seem to be fetching
too much money. My TS-830S needs a better
tuner than the MFJ-949E I'm currently
using, and the XYL is beginning to comment
on how well-coordinated the shack looks.

So far, I have the matching station monitor,
speaker, and external vfo.

I'm soon to be the owner of a TS-570S(G) so
I can work six meters once it starts opening
up again. I tried and tried to get a
Kenwood transverter to no avail.

Thanks,
Ken W8ASA

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8903. Re: [TS-520_820_530_830] TL-922

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 20:14:12 UTC
From: John Harp
Topic: 8761 Message: 8903

Thank you Ken but first I've gota go back to work. I'll probably case the Amp in a year or so. For now I have one Amp I can use needs a relay and one that's parts for my future 160. Both came to me at a price I couldn't refuse since it was a one time opportunity. I'll get my T-922 yet and matching clock and station monitor as the OT poorsa in again. Thanks anyway.

Ken Gunton <ken@...> wrote: Universal Radio has a TL-922, I think.
They want about a grand for it. I saw
it when I visited them last Saturday.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of John Harp
Sent: Monday, August 21, 2006 2:48 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Looking for an AT-230

Keep trying E-Bay for the Transverters. I set up My E-Bay to watch for them and a KB-1 and an HC-10 clock. I've stuck presently to my Versa Tuner V for now. Someday I'll get the TL-922 also.

Ken Gunton <ken@...> wrote:
Does anyone in the group have an AT-230
they want to part with? I've been trying
to find one is excellent condition, but
the ones on E-Bay seem to be fetching
too much money. My TS-830S needs a better
tuner than the MFJ-949E I'm currently
using, and the XYL is beginning to comment
on how well-coordinated the shack looks.

So far, I have the matching station monitor,
speaker, and external vfo.

I'm soon to be the owner of a TS-570S(G) so
I can work six meters once it starts opening
up again. I tried and tried to get a
Kenwood transverter to no avail.

Thanks,
Ken W8ASA

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8904. TS-530S/830S Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 20:33:02 UTC
From: joe sloss
Topic: 8904 Message: 8904

I need two small knobs the size of the Noise Blanker knob. I'd settle for one but two would be a treat.

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

8905. Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 21:19:19 UTC
From: james27613
Topic: 8875 Message: 8905

Hi,

Unless the computer ups is full sine wave, the radio
will not like the ups. these inexpensive ups systems are
designed to run equipment with switching power supplies.

a surge strip will be just a bandaid until the mov(s) in the
strip fail and provide no protection.

if the batteries are removed from the ups and it is used as
a power conditioner, the 140 vac will be out of the range of
the unit and will changeover to battery power.

73 james ke4drn

>
> Why not try a computer ups and surge suppresser and
> run TS530 off that. That should take care of any over
> and under voltage problems.
>

8906. Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 23:42:33 UTC
From: ron
Topic: 8875 Message: 8906

had the ssame situation in one of the comercial buildings i take care of, neutral wire broke in wire nut, applied 240 across an outlet strip that had a high dollar fax machine and a expensive copier, fortunately the mov in the surge proterctor blew, protecting the equipment, outlet strip looked as though it had been hit by lightning, ron ne0x

8907. Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-21 23:45:49 UTC
From: ron
Topic: 8875 Message: 8907

your correct, very dangerous to have neutral lifted, in the aforementioned comercial building it tripped a 3000 amp breaker on the ground fault, plunging the entire 5 story building into darkness. at least we have some protection, but the power company has nothing to do with the internal wiring of the building, they stop at the meter or transformer. ron ne0x

8908. Re: [TS-520_820_530_830] Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 00:06:21 UTC
From: David Rust
Topic: 8875 Message: 8908

your correct, very dangerous to have neutral lifted, in the aforementioned comercial building it tripped a 3000 amp breaker on the ground fault.

I'll bet that went with a thud wouldn't it? Never saw a breaker that size.
73
Dave W0DLR

[Non-text portions of this message have been removed]

8909. TS-820S update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 01:41:34 UTC
From: w5rkl
Topic: 8909 Message: 8909

Good evening everyone,

I've had some time to look further into my 820S problem. After checking all the voltages they all were well within specifications including the 3.3 and 9 VDC.

The 820's display is now showing signs of instability from either the PLL, VFO or hetrodyne oscillator boards. The right 3 digital display numbers are changing at random. Following the signal path from antenna to speaker, using an o'scope, checking the input to and output from, RIF and TIF on the IF UNIT, shows instability. The signal displayed on my freq counter changes as the band switch changes but the 100 khz values are very unstable, constantly changing.

I've seen a similiar problem before, instability in the digital display. I know it's not the fix but cleaning the VFO variable capacitor tension spring capacitor frame contact brought the 820 back to normal operation. However, this time, I cleaned it again, twice, but no change. What I have noticed is, switching the mode switch through it travel both ways and/or the function switch through it's travel, both ways, did cause the display to settle down. However, simply turning either the function switch, any direction, or the mode switch, any direction, caused the 820 to, again, become unstable. Even though there was some brief stability, there still was nothing being received nor could I hear normal receiver noise or the calibrator or 5 mv peak to peak signal injected at the antenna connection.

Attempting to take voltage readings at various points on the circuit boards is difficult. First, the voltage readings on the schmatics are difficult to read. Second, output frequencies from the various boards are not given or shown on the schematic. The "troubleshooting" chart is useless to say the least. I doubt the digital display unit is the cause since unplugging it does nothing, other than make an 820S become an 820 and the digital display no longer shows up. Yes, pins 8 and 9 on the rear 9 pin socket are shorted to allow the internal VFO to work without the VFO 820 plugged into that socket.

Thanks and 73's

Mike
W5RKL

8910. TS-520S, No WWV reception

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 00:46:34 UTC
From: tj_ki4etm
Topic: 8910 Message: 8910

Hello, I have a TS-520S that I recently bought at a hamfest, it seems to work perfectly, except there is no reception when I have the band switch in WWV position. If you turn the function switch to cal 25 KHz, you can just barely hear the tone. Anybody have any ideas?
Thanks for your time,
T.J.

8911. Re: [TS-520_820_530_830] Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 06:26:00 UTC
From: DW
Topic: 8875 Message: 8911

Thank You ALL very much for replying. I really
appreciate it.

Discussed the situation with the landlord. I don't
think they'd care unless the building burned, & that
would probably be a windfall for them. I'm sure that
you all know the type.

I've notified the power company, & they're going to
check it out. They're concerned particularly because
all lines, transformers, & insulators on my street
were replaced in the beginning of June. If it turns
out to be a neutral problem within the building,
they'll be notifying both the property owner & the
housing department as SOP, so hopefully I'm in a
win-win for once.

Thanks again everyone.

Back to my corner again.

--- David Rust <dlrust@...> wrote:

> your correct, very dangerous to have neutral lifted,
> in the aforementioned comercial building it tripped
> a 3000 amp breaker on the ground fault.
>
> I'll bet that went with a thud wouldn't it? Never
> saw a breaker that size.
> 73
> Dave W0DLR
>
> [Non-text portions of this message have been
> removed]
>
>
>
>
> Yahoo! Groups Links
>
> http://groups.yahoo.com/group/TS-520_820_530_830/
>
> TS-520_820_530_830-unsubscribe@yahoogroups.com
>
>
>

>
>

DW White KE6WYB

Shasta County California CN80

<><God, Country, Corps><>

Semper Fi!

AR

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

8912. RE: [TS-520_820_530_830] VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 06:52:00 UTC
From: Richard Harris
Topic: 8867 Message: 8912

Hi Bill,

I made up a cable for my TS-530 and VFO-240 some time ago. I can confirm that it is pin to pin. I used a length of Belden 9903 10 Base 5 cable - this has four screened twisted pairs within an overall screen and is a data cable - there other similar cables available..

As you will know, the connectors are 8 pin DIN audio-style connectors. Beware - there are two types of 8 pin DIN connectors with slightly different pin spacing. I didn't know this and the first cable that I made up used the wrong type, so I damaged the socket on the VFO - fortunately this is easily replaced, unlike the one on the transceiver that has a switch attached to sense when the VFO cable connector has been plugged in.

I believe that the schematic that I drew for the cable may be in the files section of this group.

73s,

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Bill Scurlock
Sent: 21 August 2006 19:28
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] VFO-240 Cable

Hi Gordon.

I researched the schematics for the TS-830S, TS-530S, VFO-230, and VFO-240 regarding the cable for a remote vfo. I believe you are correct in that the pins appear to be wired direct pin-to-pin on each end of the cable. Here is what I found for the 8 pin remote vfo sockets on the radios and on the VFO's.

Pin 1 - the "hot" Remote VFO signal going to the PLL Unit connector 6 pin 1 (TS-530S). Note that the radio internal VFO signal goes to connector 5 pin 2 (PLL Unit).

Pin 2 - Identified as "RL" going to the AF Unit connector 6 pin 6 (TS-530S). Also identified as "RL" in the VFO-240 and VFO-230.

Pin 3 - Identified as "9" (volts?) going to the AF Unit connector 6 pin 7 (TS-530S). Also identified as "9" in the VFO-240 and VFO-230.

Pin 4 - Identified as "RLC" going to pin 1 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS530S). There is no connection to pin 4 for VFO-240, but there is a connection in the VFO-230.

Pin 5 - Identified as "VFB" going to pin 3 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS-530S). The connection to this pin 5 for the VFO-240 is identified as

"MCO". In VFO-230, this signal is identified as "VFB".

Pin 6 - Identified as "0.5" going to the Counter Unit X54-1540-00 connector 1 pin 2. There is no connection to pin 6 for VFO-240, but there is a connection in VFO-230 identified as "5.00".

Pin 7 - This is a ground connection used to shield the "hot" vfo signal lead.

Pin 8 - Identified as "12" in the TS-530 and goes to several places including the Counter Unit connector 1 pin 3, and the RF Unit connector 6 pin 2. In VFO-240 this signal is identified as "14" and provides power to PL1 and PL2. There is no connection to this pin in VFO-230.

I used the interconnection/schematic diagram for the TS-530S for the above references because Kenwood drew it line-for-line , whereas the TS-830 diagram draws one line for multiple conductors where you have to follow all the "breakouts" to figure out where the conductors are going which is a little more time consuming.

It appears that you can use a 6 conductor cable if you only plan to use the VFO-240, or a 7 conductor cable if you only plan to use the VFO-230. But if you plan to use the same cable for either VFO, then you will need to use 8 conductors. The VFO-240 is made to use with either the TS-530S or TS-830S.

This was an interesting exercise. Maybe it helped you a little.

73, Bill, K5GCW
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 20, 2006 12:06 PM
Subject: [TS-520_820_530_830] VFO-240 Cable

Can anyone tell me if the cable used to connect the TS-830S to the
External VFO-240 is just a STRAIGHT through cable with 8 Pin DIN
connectors on each end ? I'm looking at the schematic for each and it
looks as if it is, but I want to be sure before I make one up.
Or, Does anyone have an extra cable for sale ?
73,
Gordon
N6WK

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8913. RE: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 07:21:00 UTC
From: Richard Harris
Topic: 8875 Message: 8913

I was not aware of the way that the earth was connected in the USA, but it sounds much like the system used in the UK nowadays (termed PME - protective multiple earthing) where the internal house earth wiring is connected to the neutral where the supply enters the house. An external neutral fault can result in the earth rising to the live potential (230V in the UK) but provided all metalwork that you can touch in the house is bonded together, for example taps, radiators etc, then there isn't a hazard because no potential can exist between these conductive surfaces, even if collectively they are at the live voltage

However, there is a hazard if you bring an earth rod into the house. The RSGB Handbook gives warnings about this and which have recently been repeated in the RSGB "Rad Com" magazine That is why I tune up against mains earth, not an external earth rod, even though the chances of TVI and BCI are greater. If I was going to use an external earth rod, then I would devise some kind of RF transformer coupling after the ATU (I stress after the ATU, not before) and use shrouded connectors that have no exposed metal parts when unmated, perhaps similar to those used on DMM test cables these days.

In a typical ham station, parts of an antenna may have a DC connection to the internal house earth (via the ATU), for example one leg of a dipole, and so may rise to live potential in the event of a neutral fault. I wonder what the situation would be with a beam and a tower and whether the tower could become live.....

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of David Rust
Sent: 21 August 2006 17:34
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

I believe a floating neutral or a neutral above ground could result in death if you were handling something like a metal toaster, etc. If you become the ground thru some metal grounded object, I would think that's the end of the line??
Am I thinking correct?
73, be careful, Dave W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8914. Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 10:12:25 UTC
From: mikefr24
Topic: 8914 Message: 8914

I acquired a TS-820S from a long time friend. The rig sat for 10+ years in his closet and worked perfect when he put it there. Now the rig will turn on but the digital display is dead and I can not receive anything when I hook up an antenna. I can hear static over the speaker but the rig will not hear anything. I read here that this radio has some oxidation issues because of its age. I am fully prepared to tear this radio down to get it working. My question is: where do I start looking for problems? Do I just tear the whole thing apart and clean it?

8915. Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 13:55:50 UTC
From: Ellen R
Topic: 8819 Message: 8915

Screamin Deal - You've got that right. I paid $280 for my TS-820.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "George W7ZVD" <w7zvd@...>
wrote:
>
> Howdy
> I recently found a screamin' deal on my TS 830 S, got it with the
AT 230 for $75 both in the original boxes. It had been sitting on a
shelf for quite a number of years. I had to go in and wiggle all the
connectors inside, but everything seems to be working like new now
(knock wood). Both units look like they had never been out of the
box. The WARC bands had not even been opened up. Thanx to this group
I found the right wire (not 2 as the manual says) and rather than
cutting (again per manual) I was able to get the contact out of the
connector and tape it off. This leaves the possibility of putting it
back into the condition in which it originally left the factory. So
far I have been nothing but happy with this radio. Have worked all
the bands except 160, have to put up another wire for that one
(soon!).
> 73 and enjoy
> George Copeland W7ZVD
> Ham Radio is a Contact Sport...MAKE ONE !
>
> [Non-text portions of this message have been removed]
>

8916. Re: [TS-520_820_530_830] Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 14:37:44 UTC
From: John Harp
Topic: 8914 Message: 8916

Mike,
Is the meter light on and just not the display? If this is so look on the back and check the little black switch marked SW Switch and do not turn the radio it on until the switch is in the ON position.

I've had one of my 830's for 30 years now and only found this out after cleaning my second one the last time I cleaned it a couple of weeks ago.

It may sound dumb, but check it. I'd rather it sound dumb, and hope it's just that simple. go.

mikefr24 <mikefr24@...> wrote:
I acquired a TS-820S from a long time friend. The rig sat for 10+
years in his closet and worked perfect when he put it there. Now the
rig will turn on but the digital display is dead and I can not receive
anything when I hook up an antenna. I can hear static over the
speaker but the rig will not hear anything. I read here that this
radio has some oxidation issues because of its age. I am fully
prepared to tear this radio down to get it working. My question is:
where do I start looking for problems? Do I just tear the whole thing
apart and clean it?

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8917. Re: [TS-520_820_530_830] TS-520S, No WWV reception

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 14:45:05 UTC
From: John Harp
Topic: 8910 Message: 8917

Is it recieving anything anywhere else?

tj_ki4etm <t_jjewell@...> wrote: Hello, I have a TS-520S that I recently bought at a hamfest, it seems
to work perfectly, except there is no reception when I have the band
switch in WWV position. If you turn the function switch to cal 25 KHz,
you can just barely hear the tone. Anybody have any ideas?
Thanks for your time,
T.J.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

8918. Re: [TS-520_820_530_830] Re: My Newest Project TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 14:43:19 UTC
From: John Harp
Topic: 8819 Message: 8918

My first one was 625 dollars. My second one was 325 dollars. You got the AT-230 Tuner to boot. I hope you get the matching speaker next. I've been after the flywheel for some time now.

Ellen R <ellenjoanne2003@...> wrote: Screamin Deal - You've got that right. I paid $280 for my TS-820.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "George W7ZVD" <w7zvd@...>
wrote:
>
> Howdy
> I recently found a screamin' deal on my TS 830 S, got it with the
AT 230 for $75 both in the original boxes. It had been sitting on a
shelf for quite a number of years. I had to go in and wiggle all the
connectors inside, but everything seems to be working like new now
(knock wood). Both units look like they had never been out of the
box. The WARC bands had not even been opened up. Thanx to this group
I found the right wire (not 2 as the manual says) and rather than
cutting (again per manual) I was able to get the contact out of the
connector and tape it off. This leaves the possibility of putting it
back into the condition in which it originally left the factory. So
far I have been nothing but happy with this radio. Have worked all
the bands except 160, have to put up another wire for that one
(soon!).
> 73 and enjoy
> George Copeland W7ZVD
> Ham Radio is a Contact Sport...MAKE ONE !
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8919. Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 16:34:40 UTC
From: N3DOK
Topic: 8919 Message: 8919

Hi,
Could someone explain the difference between a YG-455C 500Hz CW filter and a YK-88C 500Hz CW filter? Is there an advantage of one over the other?

Thank You,
Bob N3DOK

[Non-text portions of this message have been removed]

8920. Re: TS-520S, No WWV reception

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 17:30:04 UTC
From: Clif
Topic: 8910 Message: 8920

--- In TS-520_820_530_830@yahoogroups.com, "tj_ki4etm" <t_jjewell@...>
wrote:
>
> Hello, I have a TS-520S that I recently bought at a hamfest, it seems
> to work perfectly, except there is no reception when I have the band
> switch in WWV position. If you turn the function switch to cal 25 KHz,
> you can just barely hear the tone. Anybody have any ideas?
> Thanks for your time,
> T.J.
>

The WWV circuit is separate from the normal RX circuit. It is diode
switched where the antenna comes into the RF unit and has it's own
pre-amp and mixer circuit. Usually the voltage to switch the diodes is
missing.

Do you have a service manual?

Clif

8921. Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 17:29:51 UTC
From: dave@zievid.com
Topic: 8914 Message: 8921

FWIW, I wandered into a RadioShack store yesterday and found the Deoxit 'pen' style dispensers on clearance sale for just under $2.00. That's a good discount from the $10 normal price, so it may be worth a look if you have a shop in your area.

These can be used to clean up the switches and contacts in your vintage Kenwood hybrids (I'm trying to get back on topic :)

73,
- Dave
W6OT

8922. Re: [TS-520_820_530_830] Looking for an AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 17:37:07 UTC
From: Rick May
Topic: 8761 Message: 8922

Hi Ken,

There are a couple of them on qth.com...

http://swap.qth.com/view_ad.php?counter=548433
http://swap.qth.com/view_ad.php?counter=546144

73' Rick KC0HH
Lamar, Colorado

Ken Gunton <ken@...> wrote:
Does anyone in the group have an AT-230
they want to part with? I've been trying
to find one is excellent condition, but
the ones on E-Bay seem to be fetching
too much money. My TS-830S needs a better
tuner than the MFJ-949E I'm currently
using, and the XYL is beginning to comment
on how well-coordinated the shack looks.

So far, I have the matching station monitor,
speaker, and external vfo.

I'm soon to be the owner of a TS-570S(G) so
I can work six meters once it starts opening
up again. I tried and tried to get a
Kenwood transverter to no avail.

Thanks,
Ken W8ASA

73' Rick KC0HH
Lamar, Colorado

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

8923. Re: Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 17:36:34 UTC
From: Clif
Topic: 8919 Message: 8923

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi,
> Could someone explain the difference between a YG-455C 500Hz CW
filter and a YK-88C 500Hz CW filter? Is there an advantage of one over
the other?
>
> Thank You,
> Bob N3DOK
>
> [Non-text portions of this message have been removed]
>

They are for different IF frequencies. The 8.8 (YK88C) IF is first in the RX chain and is normally the first filter installed. Most people are happy with only one. For maximum rejection the 455 filter is added to sharpen the skirts up more.

The earlier in the chain you narrow the bandwidth (8.8 IF) the less the later stages have to deal with.

Clif

8924. New TS830S Project For Me

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 18:43:36 UTC
From: Ruben Echevarria
Topic: 8924 Message: 8924

Got delivery today of a TS830S along with SP230 speaker, MC50 mic, and PC1 phone patch. EBay item... Radio is working fine. Output is low will replace driver and finals after check up.
I need if anyone has one a microphone cable the one from mic to rig for the MC50. Otherwise I'll just get the connectors and put one together.
Ok so now I have twin TS830S and SP230 Speakers and MC50's ....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

8925. Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 16:18:32 UTC
From: mikefr24
Topic: 8914 Message: 8925

Hmm, I'll check the switch. What is the purpose of this switch?
And yes, the meter light is on and the digital display is off. I
also noticed that the LED's are not working either. I'll post my
findings when I get home.

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Mike,
> Is the meter light on and just not the display? If this is so
look on the back and check the little black switch marked SW Switch
and do not turn the radio it on until the switch is in the ON
position.
>
> I've had one of my 830's for 30 years now and only found this
out after cleaning my second one the last time I cleaned it a couple
of weeks ago.
>
> It may sound dumb, but check it. I'd rather it sound dumb, and
hope it's just that simple. go.
>
> mikefr24 <mikefr24@...> wrote:
> I acquired a TS-820S from a long time friend. The rig
sat for 10+
> years in his closet and worked perfect when he put it there. Now
the
> rig will turn on but the digital display is dead and I can not
receive
> anything when I hook up an antenna. I can hear static over the
> speaker but the rig will not hear anything. I read here that this
> radio has some oxidation issues because of its age. I am fully
> prepared to tear this radio down to get it working. My question
is:
> where do I start looking for problems? Do I just tear the whole
thing
> apart and clean it?
>
>
>
>
>
>
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
call rates.

>
> [Non-text portions of this message have been removed]
>

8926. Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 20:04:43 UTC
From: mikefr24
Topic: 8914 Message: 8926

Ah yes. I feel very stupid. The switch was "ON" but the jumper (pin 9 & 10) on the EXT VFO plug was missing. I plugged it in and the rig cam to life. Thank to Clif for pointing this out via email.

Mike
KC8QNO

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...> wrote:
>
>
> Hmm, I'll check the switch. What is the purpose of this switch?
> And yes, the meter light is on and the digital display is off. I
> also noticed that the LED's are not working either. I'll post my
> findings when I get home.
>
>
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Mike,
> > Is the meter light on and just not the display? If this is so
> look on the back and check the little black switch marked SW Switch
> and do not turn the radio it on until the switch is in the ON
> position.
> >
> > I've had one of my 830's for 30 years now and only found this
> out after cleaning my second one the last time I cleaned it a couple
> of weeks ago.
> >
> > It may sound dumb, but check it. I'd rather it sound dumb, and
> hope it's just that simple. go.
> >
> > mikefr24 <mikefr24@> wrote:
> > I acquired a TS-820S from a long time friend. The rig
> sat for 10+
> > years in his closet and worked perfect when he put it there. Now
> the
> > rig will turn on but the digital display is dead and I can not

> receive
> > anything when I hook up an antenna. I can hear static over the
> > speaker but the rig will not hear anything. I read here that this
> > radio has some oxidation issues because of its age. I am fully
> > prepared to tear this radio down to get it working. My question
> is:
> > where do I start looking for problems? Do I just tear the whole
> thing
> > apart and clean it?
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>

8927. Re: New TS830S Project For Me

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 21:09:53 UTC
From: Gordon
Topic: 8924 Message: 8927

Ruben,
Happy to hear you finally have a working TS-830S. Did you ever get the original one sorted out ?
I've been missing in action here for a couple of days. Had a Hard drive crash on Sunday. Lost about 100 Gigs of Data and programs and my last backup was in December 2005.....OOOPPSS !!
At least I had all my Family Movies and Digital Pictures backed up current ! Oh yea, and My ACLOG file hi hi...

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Got delivery today of a TS830S along with SP230 speaker, MC50 mic, and PC1 phone patch.
> EBay item... Radio is working fine. Output is low will replace driver and finals after check up.
> I need if anyone has one a microphone cable the one from mic to rig for the MC50.
> Otherwise I'll just get the connectors and put one together.
> Ok so now I have twin TS830S and SP230 Speakers and MC50's ....
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> http://www.moparts.org/moparts/picture/members/6/Ruben.html
>
> [Non-text portions of this message have been removed]
>

8928. Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 21:10:59 UTC
From: Gordon
Topic: 8914 Message: 8928

Mike, Check that the Jumper is in the EXT vfo plug. Pins 8 and 9 must
be shorted together.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
>
> Hmm, I'll check the switch. What is the purpose of this switch?
> And yes, the meter light is on and the digital display is off. I
> also noticed that the LED's are not working either. I'll post my
> findings when I get home.
>
>
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Mike,
> > Is the meter light on and just not the display? If this is so
> look on the back and check the little black switch marked SW Switch
> and do not turn the radio it on until the switch is in the ON
> position.
> >
> > I've had one of my 830's for 30 years now and only found this
> out after cleaning my second one the last time I cleaned it a couple
> of weeks ago.
> >
> > It may sound dumb, but check it. I'd rather it sound dumb, and
> hope it's just that simple. go.
> >
> > mikefr24 <mikefr24@> wrote:
> > I acquired a TS-820S from a long time friend. The rig
> sat for 10+
> > years in his closet and worked perfect when he put it there. Now
> the
> > rig will turn on but the digital display is dead and I can not
> receive
> > anything when I hook up an antenna. I can hear static over the

> > speaker but the rig will not hear anything. I read here that this
> > radio has some oxidation issues because of its age. I am fully
> > prepared to tear this radio down to get it working. My question
> is:
> > where do I start looking for problems? Do I just tear the whole
> thing
> > apart and clean it?
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>

8929. Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 21:13:27 UTC
From: Gordon
Topic: 8914 Message: 8929

Guess I should have read a little further before resonding.
Pins 9 & 10 ????
I don't think so since the socket only has 9 pins ! hi hi..

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> Ah yes. I feel very stupid. The switch was "ON" but the jumper (pin 9
> & 10) on the EXT VFO plug was missing. I plugged it in and the rig
> cam to life. Thank to Clif for pointing this out via email.
>
> Mike
> KC8QNO
>
>
>
>
>
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> >
> > Hmm, I'll check the switch. What is the purpose of this switch?
> > And yes, the meter light is on and the digital display is off. I
> > also noticed that the LED's are not working either. I'll post my
> > findings when I get home.
> >
> >
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> > wrote:
> > >

> > > Mike,
> > > Is the meter light on and just not the display? If this is so
> > look on the back and check the little black switch marked SW Switch
> > and do not turn the radio it on until the switch is in the ON
> > position.
> > >
> > > I've had one of my 830's for 30 years now and only found this
> > out after cleaning my second one the last time I cleaned it a couple
> > of weeks ago.
> > >
> > > It may sound dumb, but check it. I'd rather it sound dumb, and
> > hope it's just that simple. go.
> > >
> > > mikefr24 <mikefr24@> wrote:
> > > I acquired a TS-820S from a long time friend. The rig
> > sat for 10+
> > > years in his closet and worked perfect when he put it there. Now
> > the
> > > rig will turn on but the digital display is dead and I can not
> > receive
> > > anything when I hook up an antenna. I can hear static over the
> > > speaker but the rig will not hear anything. I read here that this
> > > radio has some oxidation issues because of its age. I am fully
> > > prepared to tear this radio down to get it working. My question
> > is:
> > > where do I start looking for problems? Do I just tear the whole
> > thing
> > > apart and clean it?
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> > call rates.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

8930. TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 21:22:13 UTC
From: Gordon
Topic: 2059 Message: 8930

I am selling my TS-820 that has the optional Digital Display installed.
My question is this:
Should I sell the Display separate from the radio?
I was thinking it might sell quicker that way as there are always guys
looking for the Optional Display (that works Pefect by the way) and
there always seem to be guys looking for an original TS-820 without
the display.. Thoughts ??

Gordon
N6WK

8931. Re: [TS-520_820_530_830] Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 21:21:56 UTC
From: Walt Breining
Topic: 8914 Message: 8931

Things to check.
1. there is a switch on the back labeled SG. It is for turning the screen voltage off when neturalizing. It must be on.
2. this is more likely, there must be a dummy plug in the VFO socket. It you have none, use a piece of a standard size paper clip and jumper pins 8 and 9 together on the plug. These would be the farthest pins anti clock wise or would be first 2 pins to the left of the space.
3. be sure that your VFO swithc is straight up in the VFO position.
5. If this still gives you nothing, remove the cover and locate the regulator IC for the display. It is on a shiney heat sink near the display box. Check the 3 pins with a volt meter. One outside one will read 12v the other outside one will read 5v the center will read 0 volts. If you get no voltage here, you need to troubleshoot the 12 V power supply.

Let us know what you come up with and we will help you from there.

Vy 73, Walt N9WB

> mikefr24 <mikefr24@...> wrote:
> I acquired a TS-820S from a long time friend. The rig sat for 10+
> years in his closet and worked perfect when he put it there. Now the
> rig will turn on but the digital display is dead and I can not receive
> anything when I hook up an antenna. I can hear static over the
> speaker but the rig will not hear anything. I read here that this
> radio has some oxidation issues because of its age. I am fully
> prepared to tear this radio down to get it working. My question is:
> where do I start looking for problems? Do I just tear the whole thing
> apart and clean it?
>
>

8932. Re: [TS-520_820_530_830] Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 00:54:35 UTC
From: John Harp
Topic: 8914 Message: 8932

The purpose of this switch that I described to you is to leave it in the on position during normal operation. However, during a neutralization process of the final tubes, this awitch is moved to the off position. The process of adjusting the tubes is done at a setting of 28.5mhz, the swich is is set to off and there is a small variable capacitor adjusted on the inside bottom. Then after this is done the switch is set back.

Inyour case the switch may be set in the wrong position. If it is, then the result is what you saw.

So look it over tonite when you get home and see if that's the case. If it is what I think it is; turn that switch where it belongs hook up an antenna and enjoy the experience of your new found love.

mikefr24 <mikefr24@...> wrote:

Hmm, I'll check the switch. What is the purpose of this switch?
And yes, the meter light is on and the digital display is off. I
also noticed that the LED's are not working either. I'll post my
findings when I get home.

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Mike,
> Is the meter light on and just not the display? If this is so
look on the back and check the little black switch marked SW Switch
and do not turn the radio it on until the switch is in the ON
position.
>
> I've had one of my 830's for 30 years now and only found this
out after cleaning my second one the last time I cleaned it a couple
of weeks ago.
>
> It may sound dumb, but check it. I'd rather it sound dumb, and
hope it's just that simple. go.
>
> mikefr24 <mikefr24@...> wrote:
> I acquired a TS-820S from a long time friend. The rig
sat for 10+
> years in his closet and worked perfect when he put it there. Now
the
> rig will turn on but the digital display is dead and I can not
receive
> anything when I hook up an antenna. I can hear static over the
> speaker but the rig will not hear anything. I read here that this
> radio has some oxidation issues because of its age. I am fully

> prepared to tear this radio down to get it working. My question
is:
> where do I start looking for problems? Do I just tear the whole
thing
> apart and clean it?
>
>
>
>
>
>
> ---
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
call rates.
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8933. Re: [TS-520_820_530_830] Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 01:49:10 UTC
From: John Harp
Topic: 8919 Message: 8933

Bob,

Both of the are filters that passbands of 500 hertz. In other words the total band of froquecies that will pass thru is 500 hertz wide. They are both the same in that sense.

Now for the difference. the two are for different IF's (meaning Intermediate frequency). The one is for 8.8 mhz. Hence the term YK-88C (500Hz); meaning this filter is used in the dual conversion reciever in the 8.8 mhz IF section for giving a total of 500 Hz Passband. Reducing from 2.4khz. This may make the Variable BandwidthTuning control not very effective.

Now the YK-455C is a similar process. It does it's job down at the next level of the IF. Here it operates as a filter with a total bandpass of 500 hertz at 455 kilohertz. It is a very sharp CW filter but again the Variable Bandwidth Tuning control is not very effective.

Now, If you use both of these filters in the dual conversion process, the Bandwidth is still 500 hertz,however they can work together to bring you in performance a radio with excellent sensitivity, very sharp passband, and a maximum flexibility in the VBT. You can adjust your passband from as narrow as 150 hz to as wide as 500 hz. In a radio like the TS-830 for example it's considered the overall best combination of filters.

As many of us will atest out here, unless you know what your doing, do not change your fliters. These filter processes is one of the reasons these Kenwood radios do so well at giving such a good recieving performance.

You can take a desired signal with excessive interference frfom an adjacent signal turn the IF shift and adjust the notch an IF shift and eliminate an unwanted signal 2 khz away. I can also use the IF and VBT in combination. I adjust the VBT for best bandwidth and the IF shift for making the signal the most intelligible. Sometimes adjusting the notch and tone help too.

Thats what they are and thats what they are used for.
N3DOK <n3dok@...> wrote:
Hi,
Could someone explain the difference between a YG-455C 500Hz CW filter and a YK-88C 500Hz CW filter? Is there an advantage of one over the other?

Thank You,
Bob N3DOK

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

8934. Re: [TS-520_820_530_830] Looking for an AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 01:55:28 UTC
From: John Harp
Topic: 8761 Message: 8934

They also show up on E-Bay occasionally. Down on 40 meters there is a swap net too.

Rick May <kc0hh@...> wrote: Hi Ken,

There are a couple of them on qth.com...

http://swap.qth.com/view_ad.php?counter=548433
http://swap.qth.com/view_ad.php?counter=546144

73' Rick KC0HH
Lamar, Colorado

Ken Gunton <ken@...> wrote:
Does anyone in the group have an AT-230
they want to part with? I've been trying
to find one is excellent condition, but
the ones on E-Bay seem to be fetching
too much money. My TS-830S needs a better
tuner than the MFJ-949E I'm currently
using, and the XYL is beginning to comment
on how well-coordinated the shack looks.

So far, I have the matching station monitor,
speaker, and external vfo.

I'm soon to be the owner of a TS-570S(G) so
I can work six meters once it starts opening
up again. I tried and tried to get a
Kenwood transverter to no avail.

Thanks,
Ken W8ASA

73' Rick KC0HH
Lamar, Colorado

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

8935. Re: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 21:20:38 UTC
From: Bill Scurlock
Topic: 8914 Message: 8935

Same here in North Texas Dave. I bought all that were available here in our local store.

73, Bill, K5GCW
----- Original Message -----
From: dave@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 22, 2006 12:29 PM
Subject: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

FWIW, I wandered into a RadioShack store yesterday and found the Deoxit
'pen' style dispensers on clearance sale for just under $2.00. That's a
good discount from the $10 normal price, so it may be worth a look if you
have a shop in your area.

These can be used to clean up the switches and contacts in your vintage
Kenwood hybrids (I'm trying to get back on topic :)

73,
- Dave
W6OT

[Non-text portions of this message have been removed]

8936. Re: [TS-520_820_530_830] Re: New TS830S Project For Me

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-22 22:20:26 UTC
From: Ruben Echevarria
Topic: 8924 Message: 8936

Sorry to hear about your hard drive crash Gordon. Yes I finally have a working one.
Right now it's all apart faceplate and all. Giving it a good cleaning. Man the chassis on this
one is like new, just dusty. It has a silver logo instead of a gold one like my other TS830S.
Looked inside only 1 filter. Even the nylon drive gears are white not yellow on this new one.
No cracks either. TX a little low so I'll change the driver and finals. Have a bunch of brand
new spares here. Got a decent deal I believe. Only thing I didn't get the mic cable for the MC50.
Oh and I need the 4 small round feet that screw on the side of the case. Otherwise all is good.

PS: Pink roll cages on Dragsters can be painted...hihi

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 22, 2006 5:09:53 PM
Subject: [TS-520_820_530_830] Re: New TS830S Project For Me

Ruben,
Happy to hear you finally have a working TS-830S. Did you ever get
the original one sorted out ?
I've been missing in action here for a couple of days. Had a Hard
drive crash on Sunday. Lost about 100 Gigs of Data and programs and my
last backup was in December 2005.....OOOPPSS !!
At least I had all my Family Movies and Digital Pictures backed up
current ! Oh yea, and My ACLOG file hi hi...

Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Got delivery today of a TS830S along with SP230 speaker, MC50 mic,
and PC1 phone patch.
> EBay item... Radio is working fine. Output is low will replace
driver and finals after check up.

> I need if anyone has one a microphone cable the one from mic to rig
for the MC50.
> Otherwise I'll just get the connectors and put one together.
> Ok so now I have twin TS830S and SP230 Speakers and MC50's ....
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

8937. Re: Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 08:45:22 UTC
From: ron
Topic: 8875 Message: 8937

believe it or leave it, we have larger breakers.......

8938. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 12:36:15 UTC
From: n9wb
Topic: 8875 Message: 8938

Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

Richard:
With single phase in the US, the pole transformer is commonly fed with 7800 volts main to ground or 2400 volts. The secondary is a 240 V center tapped winding. The center tap is grounded and is the neutral. The 120 volt source is connected to the neutral and one end of the 240 volt winding giving 120 volts. Except with very olde systems, both legs are brought into the building and there is an attempt to somewhat balance the various 120 volt loads between the legs. If the neutral opens up or becomes resistive, the side that has the lower resistance will have the lower voltage and the side with the lower load will have the higher voltage. This works like a resistive voltage divider circuit where the resistors are not always equal. In practice, usually the refrigerator or a window air conditioner will come on and the side with the refrigerator or air conditioner will go lower in voltage, say 90 volts and the other side will go up to 150 volts, the sum being 240 volts. Not only can the high voltage cause problems but motors on the low voltage side will run hot and burn out.

One common problem outside is that sometimes power company employees will use copper crimps on aluminum or vice versa and over time these will corrode causing a resistive or open neutral. The neutral can also sometimes have a bad connection in the meter base or where it connects in the breaker panel.

If a person knows enough to not electrocute themselves, voltage measurements where the entrance cable enters the breaker panel between the 240 volt legs and from the neutral to each leg can tell the story.

How is the power set up in England?

Vy 73, Walt N9WB

----- Original Message -----
From: Richard Harris
To: 'TS-520_820_530_830@yahoogroups.com'
Sent: Tuesday, August 22, 2006 2:21 AM
Subject: RE: [TS-520_820_530_830] Line Voltage Fluctuations

I was not aware of the way that the earth was connected in the USA, but it sounds much like the system used in the UK nowadays (termed PME - protective multiple earthing) where the internal house earth wiring is connected to the neutral where the supply enters the house. An external neutral fault can result in the earth rising to the live potential (230V in the UK) but provided all metalwork that you can touch in the house is bonded together, for example taps, radiators etc, then there isn't a hazard because no potential can exist between these conductive surfaces, even if collectively they are at the live voltage

However, there is a hazard if you bring an earth rod into the house. The RSGB Handbook gives warnings about this and which have recently been repeated in the RSGB "Rad Com" magazine That is why I tune up against mains earth, not an external earth rod, even though

the chances of TVI and BCI are greater. If I was going to use an external earth rod, then I would devise some kind of RF transformer coupling after the ATU (I stress after the ATU, not before) and use shrouded connectors that have no exposed metal parts when unmated, perhaps similar to those used on DMM test cables these days.

In a typical ham station, parts of an antenna may have a DC connection to the internal house earth (via the ATU), for example one leg of a dipole, and so may rise to live potential in the event of a neutral fault. I wonder what the situation would be with a beam and a tower and whether the tower could become live.....

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of David Rust
Sent: 21 August 2006 17:34
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

I believe a floating neutral or a neutral above ground could result in death if you were handling something like a metal toaster, etc. If you become the ground thru some metal grounded object, I would think that's the end of the line??
Am I thinking correct?
73, be careful, Dave W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.4/424 - Release Date: 8/21/06

[Non-text portions of this message have been removed]

8939. Re: TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 00:32:57 UTC
From: Ellen R
Topic: 2059 Message: 8939

Hi Gordon,

My feelings are that you should try to sell them separately. I myself
for instance like my TS=820, just as it is - with no display. Others
might like a diosplay fot thiers. Maybe try to sell them separately
for a week, and if they don't sell, sell the radio with the display in.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I am selling my TS-820 that has the optional Digital Display
installed.
> My question is this:
> Should I sell the Display separate from the radio?
> I was thinking it might sell quicker that way as there are always guys
> looking for the Optional Display (that works Pefect by the way) and
> there always seem to be guys looking for an original TS-820 without
> the display.. Thoughts ??
>
> Gordon
> N6WK
>

8940. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 12:35:42 UTC
From: n9wb
Topic: 8875 Message: 8940

Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

You need to measure the voltage on each side of the neutral and between the mains. this can be done at the box or at an electric stove connector. It should read 117 to 122 volts between the neutral and either high side of the 240 v stove outlet and 237 to 240 volts between the mains. What I bet you will experience is that when the voltage between the neutral and one of the mains goes up, the other goes down, but the voltage between the two mains stays about the same.

If this is the case, you have a neutral that is floating. This can damage many of your appliances. In some cases it can also cause a shock hazard. Your landlord should have it fixed immediately. In some cases it can also cause a shock hazard. I would not mention your ham rig when you talk to him as this is a problem for all of your appliances.

A way around this for your rig would be to set it up for 237 volt operation. Since we have more than 220 here some taps on your power transformer in the rig will need to be changed. If you choose this option, let us know and we can tell you how to do this.

However, If what I described above is correct, it needs to be fixed. I would not operate the rig until this is fixed. Plan to loose your TV, computer, VCR, and refrigerator shortly.

If you know what you are doing, you can try tightening up the neutral connections in the breaker panel. Particularly the one where the neutral comes in from outside. Be careful, you can get hurt. It may also be in the meter base or out on the drop. I see your in 6 land where salt corrosion is a serious problem on the lines outside.

Vy 73, Walt N9WB

----- Original Message -----
From: DW
To: ts-520_820_530_830@yahoogroups.com
Sent: Sunday, August 20, 2006 9:52 PM
Subject: [TS-520_820_530_830] Line Voltage Fluctuations

Hi gang,

Does anyone have any experience with abnormal
fluctuations in the AC main voltage?

Here's the basics. I live in an apartment built in
1962. Currently, on average, we blow a light bulb
every two to three days, including GE, Sylvania, &c.
By this I meanwhile lit, not when switched on.

Landlord brought in an electrician, who said line
voltage is bouncing from 100-140VAC. No problems with
any household electronics, & I run my 2M, scanner, &

SW rcvr off of a gel cell W/ a trickle charger.

I plan to set up my TS520, but wanted to go through
the mains rather than pull that much amperage from the
12V system. Anything unusual I should be looking for,
or doing differently other than toroids, groundstraps,
&c. I'm concerned that a high V spike could fry this
thing, which will be my primary HF rig.

Thanks,

DW White KE6WYB

Shasta County California CN80

<><God, Country, Corps><>

Semper Fi!

AR

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.4/424 - Release Date: 8/21/06

[Non-text portions of this message have been removed]

8941. Re: [TS-520_820_530_830] Re: Need some parts (ferrite cores) for TS820S.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 12:33:11 UTC
From: n9wb
Topic: 8776 Message: 8941

Dealing with broken slugs.

The best way to deal with broken slugs is to avoid breaking them in the first place. Never use a metal screwdriver or a metal Allen wrench to adjust a coil. It will almost surely break. Use the proper plastic, fiberglass or nylon tool. Even if you have to wait to get the proper tool, it is a lot better than dealing with a broken slug.

If it ain't broke, don't fix it ! It is very very seldom that a coil or transformer that has not been tampered with after it was set at the factory will benefit from adjustment.

OK, so you got the rig from e-bay with broken slugs and it is not your fault. Here some notes that may help.

When trying to repair coils with broken slugs, patience and care is of the utmost importance. Remember that even if it takes considerable time to repair a jammed coil, it is insignificant compared to the time involved in trying to locate a replacement.

Some coils are actually transformers, but the same things apply regarding jammed or broken slugs.

Often when slugs are cracked, the slot on the top is split and a corner of the top of the slug wedges the slug tight. Sometimes this chip can be removed with a small precision screwdriver and this will free up the slug. The slug then can sometimes be worked out from the top by carefully pushing on the corner of what is left of the slot with a very small precision metal screwdriver.

The coils can be carefully removed and the slug sometimes can be backed out from the bottom. If the slug cannot be removed from the top then carefully work from the bottom and then sometimes the chip can be released from the top by slightly moving the slug from the bottom. On the end where the slot is good, avoid using a metal tool as that is probably how they got cracked in the first place. As a last resort, try the metal tool very very carefully to get a firm grip but do not apply too much pressure or you will be in bigger trouble fast.

I have also found that sometimes heating the slug from the top or bottom with a small soldering iron helps it break loose.

If the slug has one good end, smooth out any rough spots on the bad end and reuse the slug with the good slot up and of course use the proper plastic tool.

If nothing else works, after all else has failed, you can often CAREFULLY chip the slug out piece by piece using a small precision screwdriver and a small hammering device. I have even used a small drill bit and bored out the center of the slug. Start with a small bit and then use a bigger one until you can chip out the remaining slug. I do not use an electric drill for this. It will catch and destroy the coil entirely. I usually wrap masking tape on the shaft of the drill bit as a handle and use it as a hand tool. You will

begin to feel like a dentist at this point. OUCH!

If the threads in the coil form or slugs are stripped so the slug will not stay in place, shim a very small piece of a rubber band next to the slug but be sure it is small enough that it does not make the slug too tight.

If you encounter a coil with some brown goop in the top, that is bees wax. It can be scraped out and melted with a small soldering iron. The coil slug can be turned while the wax is still warm. I usually do not reseal these coils as they don't move. The exception is VCO coils that were already factory sealed.

If the was must be replaced, you can often find excess wax adjacent to the coil or a good inexpensive source of bees wax is a commode seal available for less that 2 dollars at hardware or building supply stores.

Sometimes, these coils are sealed by a paint like substance. It can be melted or burned out using a small soldering iron.

Replacement slugs:

CB radios from the same era as your rig are a good source of slugs as well as other consumer products from that era. The thread pitch and sometimes the diameter of the slugs varies. The CBs made by Cybernet such as Hy-Gains and Midlands, any CB that used a PLL 02A as a PLL chip is a possible candidate for Kenwood slugs. Most Uniden made units have slugs that are not the right thread pitch. Some Sears and J.C. Penny's radios also might have usable slugs. If you have a CB repair guy in the area that has been around for years, and his shop looks like a junk yard, he's the man!

The permeability of these slugs can vary but I have not very often had any problems changing slugs and disregarding this. There is usually enough range in these coils to compensate for this. Most of the slugs you will get will probably be found in the first IF of these rigs and they will be the correct permeability anyway. Although some from the PLL coil and transmit driver coils will work too. If the slug fits, try it.

One last hint! I remove the center shaft from the small diameter K-40 mobile wirewound CB antennas, and cut it into sections 3 inches long. Then I insert a section into a electric drill and turn it against the side of a turning bench grinder. I sharpen it to a point much like a pencil point only more pointed. Then I remove the tool from the drill and fashion the blade with the grinder to a small screwdriver point that will fit the slotted coils.

I am sure that there is other stock somewhere that is available. What you want is a blade that is hard enough to turn the coil slug but soft enough that it will break before the slug does.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

8942. Looking for a R-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 11:36:18 UTC
From: mrlynn7
Topic: 8942 Message: 8942

Howdy Folks. Looking for a R-820 in good working/cosmetic condition to compliment my TS-820. Please contact me by phone 724-513-7585 or email mrlynn7@yahoo.com Thank You. Lynn

8943. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 13:37:14 UTC
From: Bert Morton
Topic: 8875 Message: 8943

Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

I lost my underground neutral a few weeks ago. Luckily I was home because the breaker box got so hot I couldn't touch it. I can't help but think the house would have burned down otherwise.

Fortunately all of my electronics were protected with good quality surge protectors. The surge protectors actually melted, but did their job.

de Bert W1DFU

8944. Re: Aquired a dead TS-820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 14:43:30 UTC
From: Clif
Topic: 8914 Message: 8944

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> The purpose of this switch that I described to you is to leave it in
the on position during normal operation. However, during a
neutralization process of the final tubes, this awitch is moved to the
off position. The process of adjusting the tubes is done at a setting
of 28.5mhz, the swich is is set to off and there is a small variable
capacitor adjusted on the inside bottom. Then after this is done the
switch is set back.
>
> Inyour case the switch may be set in the wrong position. If it is,
then the result is what you saw.
>
> So look it over tonite when you get home and see if that's the
case. If it is what I think it is; turn that switch where it belongs
hook up an antenna and enjoy the experience of your new found love.
>
> mikefr24 <mikefr24@...> wrote:
>
> Hmm, I'll check the switch. What is the purpose of this switch?
> And yes, the meter light is on and the digital display is off. I
> also noticed that the LED's are not working either. I'll post my
> findings when I get home.
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Mike,
> > Is the meter light on and just not the display? If this is so
> look on the back and check the little black switch marked SW Switch
> and do not turn the radio it on until the switch is in the ON
> position.
> >
> > I've had one of my 830's for 30 years now and only found this
> out after cleaning my second one the last time I cleaned it a couple
> of weeks ago.
> >
>

The SG (Screen Grid) switch is used in neutralizing a new set of
finals. It does not affect the RX in any manner. It only affects TX in
that the radio will go into TX but not put out any power.

The normal operating position is "ON". Off is the position for
neutralizing the finals.

Maybe this will clear up some misconceptions about this switch.

Clif

8945. Fw: Re: [TS-520_820_530_830] Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 16:36:50 UTC
From: Peter A Markavage
Topic: 8945 Message: 8945

Well, for some reason, this message didn't make it to group posting the
first time, so I'm sending it again. If the first one eventually arrives,
just consider me redundant.
Pete

--------- Forwarded message ----------
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Date: Wed, 23 Aug 2006 02:57:12 -0400
Subject: Re: [TS-520_820_530_830] Kenwood Filters

Several days ago someone was looking for the info on the DH wiring for
TS-830 for wide and narrow filter switching. Well, in gathering up stuff
for a hamfest in MA this coming weekend, I found a kit package that
contained the original International Radio #94 and #96 filters (these are
2.1KHz filters one for each IF), daughter boards, components, and some
shielded cable that International Radio sold way back in the 80's and
early 90's. All instructions, including the DH info, is in the box. I
remember buying this years ago, never installed it, and thought I sold it
at Dayton years ago. I'm taking the package to the hamfest to find it a
new home. If the DH info is still needed, let me know quickly and I'll
make a copy of the info. After Friday, it's going to be history.

Pete, wa2cwa

8946. TS830S vs TS850S..Opinions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 16:19:24 UTC
From: max_ve3tmt
Topic: 8946 Message: 8946

Okay so here is the deal,

I am contemplating trading my TS850S for a mint TS830, SP230 and AT230. Having a hard time deciding whether to do the deal or not. The 830 was one of my first HF rigs and for nostalgic reasons I would like to acquire a complete station. Aside from the obvious advantages and disadvantages of the two, advice is wanted.

And I would be looking for an SM-220 or VFO-230 to round out the station.

Thanks,

Max

8947. RE: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 14:16:38 UTC
From: David [M0WAM]
Topic: 8875 Message: 8947

I've been following this thread with amazement.. From a UK point of view
it seems a terrible way to arrange an electricity supply!

David
M0WAM

> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bert Morton
> Sent: 23 August 2006 14:37
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations
>
>
>
>
>
>
> Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations
>
>
> I lost my underground neutral a few weeks ago. Luckily I was
> home because
> the breaker box got so hot I couldn't touch it. I can't help
> but think the
> house would have burned down otherwise.
>
> Fortunately all of my electronics were protected with good
> quality surge
> protectors. The surge protectors actually melted, but did their job.
>
> de Bert W1DFU
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

8948. Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 18:20:15 UTC
From: Ruben
Topic: 8948 Message: 8948

KA2HHB station pics uploaded.

8949. RE: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 18:15:00 UTC
From: Richard Harris
Topic: 8875 Message: 8949

Hi Walt,

Many thanks for your description of what happens when you have a "neutral fault" in the US. I was aware that there were two voltage standards in the US, but I didn't understand the basis for them.

In the UK, the area distribution is 3-phase 11kV (I believe) with local transformers that give 230V between each phase and the star-point of this transformer. The star-point is connected to earth at the transformer, I assume with a substantial earth rod. Houses are distributed over the three phases to maintain a reasonably balanced load (only one phase per house for safety). The two wires entering the house are defined as "live" and "neutral", the neutral being connected back to the star-point of the local transformer. The "Neutral" is usually only a volt or two above earth (due to the voltage drop in the neutral wire) whilst the "Live" is 230V above earth and so very hazardous. The mains frequency is 50Hz.

These days, house wiring has the house safety earth terminal connected to the neutral where it enters the house. All water pipes, central heating pipes etc are bonded together and connected to the house earth terminal. As explained in my earlier e-mail, because all exposed appliance metalwork and water pipes in the house are electrically bonded together, then a neutral fault outside of the house won't be hazardous to the occupants even though the house earth wiring will rise to near 230V.

A ham who has an earth rod for his antenna brought in to his shack is now at risk because a fault in the neutral line between the transformer and house will put 230V between any exposed conductors such as water pipes, radiators or metal parts equipment and his earth rod. The choice for the ham is now between an electrical fire or electrocution. Not a choice I want to make! This is why the RSGB Handbook warns against the use of earth rods for antennas and why I just tune my long wire "against" the mains earth wiring. Not perfect, but I get plenty of contacts and no one has complained about TVI/BCI (as yet).

As I mentioned in my earlier posting to the group, the fault discussed above would result in at least part of many antenna systems rising to 230V relative the outside terrain. This could include towers carrying beams. A good insurance policy with substantial public liability cover would seem to be in order....

Unlike the US system that you describe, I don't think that a Neutral conductor fault in the UK can over-volt the equipment.

Finally, a letter in the latest RSGB "Rad Com" magazine warns about using some equipment intended for the US 220V supply in the UK and recommends setting it to 115V and using an autotransformer to drop the mains voltage. Now you have explained some of the problems, I will go back and read the letter again to better understand it.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of n9wb
Sent: 23 August 2006 13:36
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

Richard:
With single phase in the US, the pole transformer is commonly fed with 7800 volts main to ground or 2400 volts. The secondary is a 240 V center tapped winding. The center tap is grounded and is the neutral. The 120 volt source is connected to the neutral and one end of the 240 volt winding giving 120 volts. Except with very olde systems, both legs are brought into the building and there is an attempt to somewhat balance the various 120 volt loads between the legs. If the neutral opens up or becomes resistive, the side that has the lower resistance will have the lower voltage and the side with the lower load will have the higher voltage. This works like a resistive voltage divider circuit where the resistors are not always equal. In practice, usually the refrigerator or a window air conditioner will come on and the side with the refrigerator or air conditioner will go lower in voltage, say 90 volts and the other side will go up to 150 volts, the sum being 240 volts. Not onl! y can the high voltage cause problems but motors on the low voltage side will run hot and burn out.

One common problem outside is that sometimes power company employees will use copper crimps on aluminum or vice versa and over time these will corrode causing a resistive or open neutral. The neutral can also sometimes have a bad connection in the meter base or where it connects in the breaker panel.

If a person knows enough to not electrocute themselves, voltage measurements where the entrance cable enters the breaker panel between the 240 volt legs and from the neutral to each leg can tell the story.

How is the power set up in England?

Vy 73, Walt N9WB

----- Original Message -----
From: Richard Harris
To: 'TS-520_820_530_830@yahoogroups.com'
Sent: Tuesday, August 22, 2006 2:21 AM
Subject: RE: [TS-520_820_530_830] Line Voltage Fluctuations

I was not aware of the way that the earth was connected in the USA, but it sounds much like the system used in the UK nowadays (termed PME - protective multiple earthing) where the internal house earth wiring is connected to the neutral where the supply enters the house. An external neutral fault can result in the earth rising to the live potential (230V in the UK) but provided all metalwork that you can touch in the house is bonded together, for example taps, radiators etc, then there isn't a hazard because no potential can exist between these conductive surfaces, even if collectively they are at the live voltage

However, there is a hazard if you bring an earth rod into the house. The RSGB Handbook gives warnings about this and which have recently been repeated in the RSGB "Rad Com"

magazine That is why I tune up against mains earth, not an external earth rod, even though the chances of TVI and BCI are greater. If I was going to use an external earth rod, then I would devise some kind of RF transformer coupling after the ATU (I stress after the ATU, not before) and use shrouded connectors that have no exposed metal parts when unmated, perhaps similar to those used on DMM test cables these days.

In a typical ham station, parts of an antenna may have a DC connection to the internal house earth (via the ATU), for example one leg of a dipole, and so may rise to live potential in the event of a neutral fault. I wonder what the situation would be with a beam and a tower and whether the tower could become live.....

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of David Rust
Sent: 21 August 2006 17:34
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Line Voltage Fluctuations

I believe a floating neutral or a neutral above ground could result in death if you were handling something like a metal toaster, etc. If you become the ground thru some metal grounded object, I would think that's the end of the line??
Am I thinking correct?
73, be careful, Dave W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.4/424 - Release Date: 8/21/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

8950. Re: [TS-520_820_530_830] New TS830S Project For Me

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 02:00:11 UTC
From: John Harp
Topic: 8924 Message: 8950

Reuben, as I understand there is a sister group to this one that is just mics. Go there and see if someone can help you. Does your other rig have a working mic? use it for now. Lets meet on the air. I'm back up and running.

Ruben Echevarria <ka2hhb_2000@...> wrote: Got delivery today of a TS830S along with SP230 speaker, MC50 mic, and PC1 phone patch.
EBay item... Radio is working fine. Output is low will replace driver and finals after check up.
I need if anyone has one a microphone cable the one from mic to rig for the MC50.
Otherwise I'll just get the connectors and put one together.
Ok so now I have twin TS830S and SP230 Speakers and MC50's ....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

8951. TS-820S VFO removal

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 20:16:17 UTC
From: tetrodehead
Topic: 8951 Message: 8951

Hi all,
My VFO variable cap wiper seems dirty.
Can the VFO be removed as per p35 item 2 of the manual, without
removing the front panel?

With the VFO out, is there access to the wiper for Deoxit, without
stripping the VFO?

Anyone done it and got a photo they could email to me please?
dave.crooks@ tiscali.fr

Thanks
Dave F4EYK

8952. Re: [TS-520_820_530_830] TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 02:37:12 UTC
From: John Harp
Topic: 2059 Message: 8952

Gordon I suggest selling it with the unit. A digital display is helpful to some people. It may bring higher value to the radio. If the buyer doesn't want the display then take it out. Some of us can't see so well anymore. A digital display may help that person. There's always the analog dial for the aficianado of that sort of thing. I can read that but sometimes my sight isn't so good anymore. There will always be those out here who will read a dial.

Gordon <n6wk@...> wrote: I am selling my TS-820 that has the optional Digital Display installed.
My question is this:
Should I sell the Display separate from the radio?
I was thinking it might sell quicker that way as there are always guys
looking for the Optional Display (that works Pefect by the way) and
there always seem to be guys looking for an original TS-820 without
the display.. Thoughts ??

Gordon
N6WK

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

8953. Re: [TS-520_820_530_830] Line Voltage Fluctuations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 22:19:30 UTC
From: n9wb
Topic: 8875 Message: 8953

Richard:
You stated that you avoid using an earthing rod for antenna grounding. What if you connect the earthing rod to the neutral in the breaker box ? My tower is grounded with 3 earthing rods and a buried radial system. I had problems with lightning going to or from the neutral to the tower ground. A heavy wire from the tower to the power earthing rod solved that.

Now here is some crazy stuff. I live in an area where there are two power companies serving different parts of the county. One requires that the earthing rod be connected at the meter base. The other requires that it be hooked to the breaker panel inside the house. Neither allow both points to be hooked to even the same earthing rod.

Thank you for your explanation. I am interested in how other countries power systems work. What you use sounds like what we call a 3 phase "closed delta".

On your final note, I have run into problems here in the USA with Dual voltage rigs like the Kenwoods that are set for 120 and 220. Our 220 system usually is closer to 240. Sometimes this causes the 12BY7 to run away and the filaments are overvoltaged. There is a simple transformer tap change in the Kenwoods and Yaesus that corrects this problem. It is still tapped correctly for 120 if one needs to go back for some reason such as generator operation.

Vy 73, Walt N9WB

----- Original Message -----
From: Richard Harris
To: 'TS-520_820_530_830@yahoogroups.com'
Sent: Wednesday, August 23, 2006 1:15 PM
Subject: RE: [TS-520_820_530_830] Line Voltage Fluctuations

Hi Walt,

Many thanks for your description of what happens when you have a "neutral fault" in the US. I was aware that there were two voltage standards in the US, but I didn't understand the basis for them.

In the UK, the area distribution is 3-phase 11kV (I believe) with local transformers that give 230V between each phase and the star-point of this transformer. The star-point is connected to earth at the transformer, I assume with a substantial earth rod. Houses are distributed over the three phases to maintain a reasonably balanced load (only one phase per house for safety). The two wires entering the house are defined as "live" and "neutral", the neutral being connected back to the star-point of the local transformer. The "Neutral" is usually only a volt or two above earth (due to

the voltage drop in the neutral wire) whilst the "Live" is 230V above earth and so very hazardous. The mains frequency is 50Hz.

These days, house wiring has the house safety earth terminal connected to the neutral where it enters the house. All water pipes, central heating pipes etc are bonded together and connected to the house earth terminal. As explained in my earlier e-mail, because all exposed appliance metalwork and water pipes in the house are electrically bonded together, then a neutral fault outside of the house won't be hazardous to the occupants even though the house earth wiring will rise to near 230V.

A ham who has an earth rod for his antenna brought in to his shack is now at risk because a fault in the neutral line between the transformer and house will put 230V between any exposed conductors such as water pipes, radiators or metal parts equipment and his earth rod. The choice for the ham is now between an electrical fire or electrocution. Not a choice I want to make! This is why the RSGB Handbook warns against the use of earth rods for antennas and why I just tune my long wire "against" the mains earth wiring. Not perfect, but I get plenty of contacts and no one has complained about TVI/BCI (as yet).

As I mentioned in my earlier posting to the group, the fault discussed above would result in at least part of many antenna systems rising to 230V relative the outside terrain. This could include towers carrying beams. A good insurance policy with substantial public liability cover would seem to be in order....

Unlike the US system that you describe, I don't think that a Neutral conductor fault in the UK can over-volt the equipment.

Finally, a letter in the latest RSGB "Rad Com" magazine warns about using some equipment intended for the US 220V supply in the UK and recommends setting it to 115V and using an autotransformer to drop the mains voltage. Now you have explained some of the problems, I will go back and read the letter again to better understand it.

Richard G3OTK

8954. 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 18:24:46 UTC
From: wayfound2000
Topic: 8954 Message: 8954

Hello Folks! I am experimenting with quality audio set-up on my TS-530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has anyone else tried this? If so what results have you had and what adjustments did you need to make...carrier insertion etc
many thanks!

8955. Re: [TS-520_820_530_830] 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 21:45:14 UTC
From: Peter A Markavage
Topic: 8954 Message: 8955

"carrier insertion etc "?????
Out of the box, the Inrad 2.8 is a drop in replacement in the 8860 IF chain.
You trying to get an AM mode out of this rig??

Pete, wa2cwa

On Wed, 23 Aug 2006 18:24:46 -0000 "wayfound2000" <wayfound2000@...> writes:
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad?
> Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!

8956. Re: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 22:34:48 UTC
From: G. Sturos
Topic: 8914 Message: 8956

I went to one of the local RS stores and bought the last two units. Hard to believe they once sold for 10 bux. Anyhoo, got home, opened the packages and found one completely dry, and second one took about 5 minutes to get a damp spot on my desk, about 1/8" in diameter.

If anyone plans on buying this item, you might try testing them in the store before leaving.

73, Gordy

dave@... wrote:
FWIW, I wandered into a RadioShack store yesterday and found the Deoxit 'pen' style dispensers on clearance sale for just under $2.00. That's a good discount from the $10 normal price, so it may be worth a look if you have a shop in your area.

These can be used to clean up the switches and contacts in your vintage Kenwood hybrids (I'm trying to get back on topic :)

73,
- Dave
W6OT

Why the heck should I have to press "1" for English.

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

8957. Re: New TS830S Project For Me

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 23:16:10 UTC
From: ron
Topic: 8924 Message: 8957

for the rubber feet you can use faucett washers from the hardware store.
ron ne0x

8958. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 23:37:38 UTC
From: max_ve3tmt
Topic: 8954 Message: 8958

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study
the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

8959. Re: [TS-520_820_530_830] Re: New TS830S Project For Me

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 00:12:11 UTC
From: Ruben Echevarria
Topic: 8924 Message: 8959

Wow!! an excellent idea. Thanks Ron ......

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: ron <ne0x@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 7:16:10 PM
Subject: [TS-520_820_530_830] Re: New TS830S Project For Me

for the rubber feet you can use faucett washers from the hardware store.
ron ne0x

[Non-text portions of this message have been removed]

8960. Re: [TS-520_820_530_830] Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-23 06:57:12 UTC
From: Peter A Markavage
Topic: 8919 Message: 8960

Several days ago someone was looking for the info on the DH wiring for TS-830 for wide and narrow filter switching. Well, in gathering up stuff for a hamfest in MA this coming weekend, I found a kit package that contained the original International Radio #94 and #96 filters (these are 2.1KHz filters one for each IF), daughter boards, components, and some shielded cable that International Radio sold way back in the 80's and early 90's. All instructions, including the DH info, is in the box. I remember buying this years ago, never installed it, and thought I sold it at Dayton years ago. I'm taking the package to the hamfest to find it a new home. If the DH info is still needed, let me know quickly and I'll make a copy of the info. After Friday, it's going to be history.

Pete, wa2cwa

8961. Re: Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 00:13:53 UTC
From: tad
Topic: 8914 Message: 8961

What is the radio shack part number. I would like to call my store before driving out there?????

--- In TS-520_820_530_830@yahoogroups.com, "G. Sturos" <radiow8idb@...> wrote:
>
> I went to one of the local RS stores and bought the last two units. Hard to believe they once sold for 10 bux. Anyhoo, got home, opened the packages and found one completely dry, and second one took about 5 minutes to get a damp spot on my desk, about 1/8" in diameter.
>
> If anyone plans on buying this item, you might try testing them in the store before leaving.
>
> 73, Gordy
>
> dave@... wrote:
> FWIW, I wandered into a RadioShack store yesterday and found the Deoxit
> 'pen' style dispensers on clearance sale for just under $2.00. That's a
> good discount from the $10 normal price, so it may be worth a look if you
> have a shop in your area.
>
> These can be used to clean up the switches and contacts in your vintage
> Kenwood hybrids (I'm trying to get back on topic :)
>
> 73,
> - Dave
> W6OT
>
>
>
>
>
>
>
> Why the heck should I have to press "1" for English.
>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.
>
> [Non-text portions of this message have been removed]

>

8962. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 00:31:19 UTC
From: wayfound2000
Topic: 8954 Message: 8962

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks! I am experimenting with quality audio set-up on my
TS-
> > 530S. Would it be an advantage to fit a 2.8KHZ filter from
inrad? Has
> > anyone else tried this? If so what results have you had and what
> > adjustments did you need to make...carrier insertion etc
> > many thanks!
> >
> Exactly what I am planning on with the 830 I have coming. I picked
up
> a Kenwood 3 Khz SSB filter to drop into it. You might want to study
> the schematics and/or service manual to accustom yourself with the
TX
> path in the 530. I'm sure these tube final rigs will sound sweet
with
> the proper setup. I am currently using a Behringer mic with a
W2IHY 8
> band EQ on my 850 which will soon be tranplanted to the 830.
>
> Max VE3TMT
>
Hello Max. Interesting! I didn't know kenwood made a 3KHZ
Filter...whats the model number for it? . Re my original post I
meant the carrier insertion point...not just insertion...although AM
would be interesting! Let me know how you get on...Incidently a
teardrop 575M6 sounds great on a TS-830! All the best
Pete G4HAK

8963. Re: TS-820S VFO removal

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 01:09:24 UTC
From: Gordon
Topic: 8951 Message: 8963

Dave,
Check out this File.
It has pictures to show you how to remove the VFO from an 820 and
clean the wiper without disassembling the VFO.
http://www.n6wk.com/kenwood/TS-820-VFO--servicing.pdf

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "tetrodehead"
<dave.crooks@...> wrote:
>
> Hi all,
> My VFO variable cap wiper seems dirty.
> Can the VFO be removed as per p35 item 2 of the manual, without
> removing the front panel?
>
> With the VFO out, is there access to the wiper for Deoxit, without
> stripping the VFO?
>
> Anyone done it and got a photo they could email to me please?
> dave.crooks@ tiscali.fr
>
> Thanks
> Dave F4EYK
>

8964. Re: [TS-520_820_530_830] Re: Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 01:13:39 UTC
From: dave@zievid.com
Topic: 8914 Message: 8964

Searching on www.radioshack.com shows #64-4336, see:
http://www.radioshack.com/search/index.jsp?kwCatId=&kw=deoxit&origkw=deoxit

There's also a way to check what stores have it in your area, but I'm not
sure how accurate the info is.

- Dave
W6OT

> What is the radio shack part number. I would like to call my store
> before driving out there?????
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "G. Sturos"
> <radiow8idb@...> wrote:
>>
>> I went to one of the local RS stores and bought the last two
> units. Hard to believe they once sold for 10 bux. Anyhoo, got home,
> opened the packages and found one completely dry, and second one took
> about 5 minutes to get a damp spot on my desk, about 1/8" in diameter.
>>
>> If anyone plans on buying this item, you might try testing them
> in the store before leaving.
>>
>> 73, Gordy
>>
>> dave@... wrote:
>> FWIW, I wandered into a RadioShack store yesterday and
> found the Deoxit
>> 'pen' style dispensers on clearance sale for just under $2.00.
> That's a
>> good discount from the $10 normal price, so it may be worth a look
> if you
>> have a shop in your area.
>>
>> These can be used to clean up the switches and contacts in your
> vintage
>> Kenwood hybrids (I'm trying to get back on topic :)
>>
>> 73,
>> - Dave
>> W6OT

>>
>>
>>
>>
>>
>>
>> Why the heck should I have to press "1" for English.
>>
>> ---------------------------------
>> All-new Yahoo! Mail - Fire up a more powerful email and get things
> done faster.
>>
>> [Non-text portions of this message have been removed]
>>
>
>
>
>
>
>
>
>

8965. Re: [TS-520_820_530_830] Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 01:16:43 UTC
From: Art
Topic: 8919 Message: 8965

Hi Pete, Please send me a copy to wb4mnk@...

73
Art
WB4MNK

Peter A Markavage wrote:
>
> Several days ago someone was looking for the info on the DH wiring for
> TS-830 for wide and narrow filter switching. Well, in gathering up stuff
> for a hamfest in MA this coming weekend, I found a kit package that
> contained the original International Radio #94 and #96 filters (these are
> 2.1KHz filters one for each IF), daughter boards, components, and some
> shielded cable that International Radio sold way back in the 80's and
> early 90's. All instructions, including the DH info, is in the box. I
> remember buying this years ago, never installed it, and thought I sold it
> at Dayton years ago. I'm taking the package to the hamfest to find it a
> new home. If the DH info is still needed, let me know quickly and I'll
> make a copy of the info. After Friday, it's going to be history.
>
> Pete, wa2cwa
>
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/2006
>

8966. Re: [TS-520_820_530_830] Re: Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 01:12:53 UTC
From: G. Sturos
Topic: 8914 Message: 8966

640-4336

tad <devoman1999@...> wrote: What is the radio shack part number. I would like to call my store
before driving out there?????

--- In TS-520_820_530_830@yahoogroups.com, "G. Sturos" <radiow8idb@...> wrote:
>
> I went to one of the local RS stores and bought the last two units. Hard to believe they once sold for 10 bux. Anyhoo, got home, opened the packages and found one completely dry, and second one took about 5 minutes to get a damp spot on my desk, about 1/8" in diameter.
>
> If anyone plans on buying this item, you might try testing them in the store before leaving.
>
> 73, Gordy
>
> dave@... wrote:
> FWIW, I wandered into a RadioShack store yesterday and found the Deoxit
> 'pen' style dispensers on clearance sale for just under $2.00. That's a
> good discount from the $10 normal price, so it may be worth a look if you
> have a shop in your area.
>
> These can be used to clean up the switches and contacts in your vintage
> Kenwood hybrids (I'm trying to get back on topic :)
>
> 73,
> - Dave
> W6OT
>
>
>
>
>
>
>
> Why the heck should I have to press "1" for English.
>
> ---

> All-new Yahoo! Mail - Fire up a more powerful email and get things
done faster.
>
> [Non-text portions of this message have been removed]
>

Why the heck should I have to press "1" for English.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

8967. TS-820S Blowing Fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 01:37:43 UTC
From: mikefr24
Topic: 8967 Message: 8967

The rig now works perfect in recieve mode. When I turn on the heater, the fuse blows about 10-15 seconds later. I have blown two 4 amp fuses and am now concerned. I am not even transmitting, the send key is in recieve mode and the MODE switch is USB. I do not even have a mic or CW key installed. (VOX is off too). I have read the manual several times about tuning the finals and can't even get to that part.

Mike

8968. Re: TS-820S VFO removal

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 02:08:09 UTC
From: w5rkl
Topic: 8951 Message: 8968

Dave,

You do not have to remove the VFO to clean the VFO variable capacitor tension spring. Remove the 2 phillips screws on the right side of the VFO. Turn the VFO either to the end of its travel on the bottom or top of the band. Spray DeOxit on the spring contact where it meets with the variable capacitor shaft and turn the VFO through its travel. Perform this twice, wait about 2 minutes for the DeOxit to evaporate then test it.

Just a bit of advice. Removing the VFO in an 820 is not as easy as it may look. The key is to not lose any of the screws especially the very small ones on the VFO zero beat dial. Do not remove the VFO with it setting at the middle of the band. Make sure you have turned it to the low end of the band, i.e. 7.000.00. Do not attempt to reinstall the VFO unless you have done this otherwise the analogue dial will be off and the numbers showing up in the small square window will not be correct.

Once completed, the dial, if properly installed, should turn like oil on glass. Any drag or scraping by any of the 2 dials should be corrected. Make sure the numbers show up properly as you pass the 100 KHz mark on any band. If they don't, you've not reassembled it properly. To ensure the numbers show up correctly and centered properly in the small window, the one and only one number 5 must be on the upper right and absolutely no where else. The manual discribes this and if you get it wrong, the numbers will either be off center or do not show up properly at the 100 KHz alignment vertical mark.

If you use lubrication, use it sparingly and only use it on the small brass gears and not on the VFO shaft. Pay close attention that you do not pinch any wiring between the VFO mount and the chassis when reassembling. Also, the wires to the digital display are easily pulled from the digital display board so caution must be exercised there. Yes, the digital board must be removed before the VFO is even unscrewed from the front panel and below the chassis. The power and VFO output cables should be removed and placed out of the way to prevent damage to them.

Good luck.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Dave,
> Check out this File.
> It has pictures to show you how to remove the VFO from an 820 and
> clean the wiper without disassembling the VFO.
> http://www.n6wk.com/kenwood/TS-820-VFO--servicing.pdf
>
> 73,
> Gordon
> N6WK
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "tetrodehead"
> <dave.crooks@> wrote:
> >
> > Hi all,
> > My VFO variable cap wiper seems dirty.
> > Can the VFO be removed as per p35 item 2 of the manual, without
> > removing the front panel?
> >
> > With the VFO out, is there access to the wiper for Deoxit, without
> > stripping the VFO?
> >
> > Anyone done it and got a photo they could email to me please?
> > dave.crooks@ tiscali.fr
> >
> > Thanks
> > Dave F4EYK
> >
>

8969. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 03:48:14 UTC
From: n9wb
Topic: 8954 Message: 8969

Why would you trade an 850 for an 830.?
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 6:37 PM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study
the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

8970. Re: TS-820S VFO removal

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 03:20:51 UTC
From: Gordon
Topic: 8951 Message: 8970

Dave,
Although some may think removing the VFO on an 820 is Difficult, I found it to be quite easy. I will agree to be sure that you do NOT lose the small screws. I used a small plastic container to keep them in. I removed the upper and lower covers, removed the VFO, cleaned the wiper, reinstalled the vfo, calibrated the dials and did all this with in about 45 minutes. My advice, just take your time and do not force anything. It really is very easy to do. Once you are done, you will have become very intimate with your 820 and you will realize how easy it actually was to clean the VFO wiper.
73,
Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "tetrodehead" <dave.crooks@...> wrote:
>
> Hi all,
> My VFO variable cap wiper seems dirty.
> Can the VFO be removed as per p35 item 2 of the manual, without
> removing the front panel?
>
> With the VFO out, is there access to the wiper for Deoxit, without
> stripping the VFO?
>
> Anyone done it and got a photo they could email to me please?
> dave.crooks@ tiscali.fr
>
> Thanks
> Dave F4EYK
>

8971. TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 03:30:15 UTC
From: Bill Scurlock
Topic: 8971 Message: 8971

Hello to "The Group".

I finally got the receiver working in my recently purchased TS-830S, and now I am starting on the transmitter.

After tuning the Drive Coils, there are very strong ALC indications on all bands. On 20M, it loads to 10W output in Tune at 90Ma with the Plate Tuning Indicator in the 28MHz range, and when switched to CW for loading up, the Plate current goes very high and the output power drops. On 17M, it loads up normally in the CW mode to about 90W output at 200Ma with the Plate Tuning Indicator again in the 28MHz range. On all other bands, there are strong ALC indications, but no Plate current dip and no power output. Attempting to dip the Plate current in the CW mode, results in about 300Ma of Plate current, and no resonance dip can be found on any band except 17M.

A prior owner really had all the Driver Coils waaaaay out of tune. So I'm wondering what else he could have messed with that could be causing this problem.

The bandswitch has been removed from the RF Board and remounted, but Kenwood service worked on this radio years ago and may have done this - or maybe not. In switching from band-to-band in receive, nothing "weird" seems to be happening with the bandswitch. The digital display seems very stable in switching from band-to-band. It appears that the original insulated shaft coupling going into the RF cage is in good shape, and the switching action in the final tank circuitry looks positive. Is it possible that when the bandswitch was removed/replaced that the shaft coupling was re-tightened with the final tank circuit switches in the wrong rotation position? Does anyone know an easy way to check this?

All the power supply voltages are good, and everything else seems to be ok, except no 6146 plate tank circuit resonance on most bands (and the resonance on 17M is at the wrong position of the Plate Tuning capacitor).

Any ideas or comments on how to analyze this situation will be appreciated. Thanks for listening.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

8972. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 03:26:11 UTC
From: Gordon
Topic: 8954 Message: 8972

I agree, I'd be tempted to trade my Mint 830 and VFO-240 with cash for another TS-850S.
I love my 830, But my 850 is really a nice rig (I have all the filters installed in it also)
I think my 850 might just have the best receiver of all my rigs.
Don't get me wrong, I really like the 830 also, but the 850... well, what can I say!

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Why would you trade an 850 for an 830.?
> Walt N9WB
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, August 23, 2006 6:37 PM
> Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks! I am experimenting with quality audio set-up on my TS-
> > 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> > anyone else tried this? If so what results have you had and what
> > adjustments did you need to make...carrier insertion etc
> > many thanks!
> >
> Exactly what I am planning on with the 830 I have coming. I picked up
> a Kenwood 3 Khz SSB filter to drop into it. You might want to study
> the schematics and/or service manual to accustom yourself with the TX
> path in the 530. I'm sure these tube final rigs will sound sweet with
> the proper setup. I am currently using a Behringer mic with a W2IHY 8
> band EQ on my 850 which will soon be tranplanted to the 830.
>
> Max VE3TMT
>
>
>
>
>
>

>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date:
8/23/06
>
>
> [Non-text portions of this message have been removed]
>

8973. Re: TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 05:50:45 UTC
From: Gordon
Topic: 8971 Message: 8973

Hi Bill,
I just checked my 830 here. When the Plate capacitor plates are fully closed) level on both edges) my plate control is pointed at about the 9 oclock position and when the plates are fully open, The control is at about the 3 oclock position.
That is relative as just loosing the set screws allows you to make the dial read what ever you want.
Now, The band switch shaft has two flats that should line up with the four offset set screws. If it is in the wrong position, the screws will not be pushing against the flats on the shaft.
If you need, I can take some close up pictures of the bandswitch and each of the wafers at a set position . The service manual shows where each wafer should be when in the 1.5 band position.

73,
Gordon

I'm suspecting you might have bad finals in that rig.
-- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Hello to "The Group".
>
> I finally got the receiver working in my recently purchased TS-830S, and now I am starting on the transmitter.
>
> After tuning the Drive Coils, there are very strong ALC indications on all bands. On 20M, it loads to 10W output in Tune at 90Ma with the Plate Tuning Indicator in the 28MHz range, and when switched to CW for loading up, the Plate current goes very high and the output power drops. On 17M, it loads up normally in the CW mode to about 90W output at 200Ma with the Plate Tuning Indicator again in the 28MHz range. On all other bands, there are strong ALC indications, but no Plate current dip and no power output. Attempting to dip the Plate current in the CW mode, results in about 300Ma of Plate current, and no resonance dip can be found on any band except 17M.
>
> A prior owner really had all the Driver Coils waaaaay out of tune. So I'm wondering what else he could have messed with that could be causing this problem.
>
> The bandswitch has been removed from the RF Board and remounted, but Kenwood service worked on this radio years ago and may have done this - or maybe not. In switching from band-to-band in receive, nothing "weird" seems to be happening with the bandswitch. The digital

display seems very stable in switching from band-to-band. It appears that the original insulated shaft coupling going into the RF cage is in good shape, and the switching action in the final tank circuitry looks positive. Is it possible that when the bandswitch was removed/replaced that the shaft coupling was re-tightened with the final tank circuit switches in the wrong rotation position? Does anyone know an easy way to check this?
>
> All the power supply voltages are good, and everything else seems to be ok, except no 6146 plate tank circuit resonance on most bands (and the resonance on 17M is at the wrong position of the Plate Tuning capacitor).
>
> Any ideas or comments on how to analyze this situation will be appreciated. Thanks for listening.
>
> 73, Bill, K5GCW
>
>
>
> [Non-text portions of this message have been removed]
>

8974. Re: TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 06:01:32 UTC
From: Gordon
Topic: 8971 Message: 8974

Bill,
I was just looking at the circuit. Have you checked L2, L1 and C7
and C8 in the tank circuit ?

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hello to "The Group".
>
> I finally got the receiver working in my recently purchased TS-830S,
and now I am starting on the transmitter.
>
> After tuning the Drive Coils, there are very strong ALC indications
on all bands. On 20M, it loads to 10W output in Tune at 90Ma with the
Plate Tuning Indicator in the 28MHz range, and when switched to CW for
loading up, the Plate current goes very high and the output power
drops. On 17M, it loads up normally in the CW mode to about 90W
output at 200Ma with the Plate Tuning Indicator again in the 28MHz
range. On all other bands, there are strong ALC indications, but no
Plate current dip and no power output. Attempting to dip the Plate
current in the CW mode, results in about 300Ma of Plate current, and
no resonance dip can be found on any band except 17M.
>
> A prior owner really had all the Driver Coils waaaaay out of tune.
So I'm wondering what else he could have messed with that could be
causing this problem.
>
> The bandswitch has been removed from the RF Board and remounted, but
Kenwood service worked on this radio years ago and may have done this
- or maybe not. In switching from band-to-band in receive, nothing
"weird" seems to be happening with the bandswitch. The digital
display seems very stable in switching from band-to-band. It appears
that the original insulated shaft coupling going into the RF cage is
in good shape, and the switching action in the final tank circuitry
looks positive. Is it possible that when the bandswitch was
removed/replaced that the shaft coupling was re-tightened with the
final tank circuit switches in the wrong rotation position? Does
anyone know an easy way to check this?
>
> All the power supply voltages are good, and everything else seems to
be ok, except no 6146 plate tank circuit resonance on most bands (and
the resonance on 17M is at the wrong position of the Plate Tuning
capacitor).

>
> Any ideas or comments on how to analyze this situation will be
appreciated. Thanks for listening.
>
> 73, Bill, K5GCW
>
>
>
> [Non-text portions of this message have been removed]
>

8975. Re: [TS-520_820_530_830] Re: TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 06:33:55 UTC
From: David Rust
Topic: 8971 Message: 8975

Bill, K5GCW,
Is it possible that when the bandswitch was
removed/replaced that the shaft coupling was re-tightened with the
final tank circuit switches in the wrong rotation position? Does
anyone know an easy way to check this?

Go to the website of K4EAA, Ken Kemski and he explains how to take the bandswitch wafers apart for cleaning and put them back. You will find his site very informative. I ordered the brass coupling from him to replace my bandswitch coupling. Mine is in good alighment, however, you have to turn the knob to one "edge" to make the proper connection. Replacing that bushing should stop that.

Hope this helps.
73
Dave W0DLR

[Non-text portions of this message have been removed]

8976. RE: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 06:53:00 UTC
From: Richard Harris
Topic: 8914 Message: 8976

Walt,

My warnings about the dangers of a neutral line fault are based on what happens with the UK wiring standard and may or may not be applicable in countries that use different distribution techniques. You have to think it through for each situation.

However, to answer your question about connecting it to the main earthing terminal in the house. I think the answer to this is no because it would be no good as an RF earth and in the event of a neutral fault the current in the earth wire is not limited in any way. The current depends on the equipment and appliances connected - after all the neutral fault may be close to the transformer in which case it is not just the equipment in my house, but those of my neighbours as well.

Many years ago I was renting a house that had old wiring and may have relied on earthing to the incoming metal water pipe - that's how things were done many years ago over here. Unfortunately, the incoming water pipe had probably been changed to a plastic pipe and was no longer a connection to the "real earth". For some reason, there was a live-to-earth short and all of the water pipes in house rose up to 230V. I discovered this whilst taking a bath, when I tried turning on the hot tap with my foot! The only reason I am am here to write this e-mail is that the current through me was due to the capacitance of the water and myself to earth, perhaps a few hunderd pF, so the current was small. Needless to say, I moved elsewhere shortly afterwards!

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of G. Sturos
Sent: 23 August 2006 23:35
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

Richard:
You stated that you avoid using an earthing rod for antenna grounding. What if you connect the earthing rod to the neutral in the breaker box ? My tower is grounded with 3 earthing rods and a buried radial system. I had problems with lightning going to or from the neutral to the tower ground. A heavy wire from the tower to the power earthing rod solved that.

Now here is some crazy stuff. I live in an area where there are two power companies serving different parts of the county. One requires that the earthing rod be connected at the meter base. The other requires that it be hooked to the breaker panel inside the house. Neither allow both points to be hooked to even the same earthing rod.

Thank you for your explanation. I am interested in how other countries power systems work. What you use sounds like what we call a 3 phase "closed

delta".

On your final note, I have run into problems here in the USA with Dual voltage rigs like the Kenwoods that are set for 120 and 220. Our 220 system usually is closer to 240. Sometimes this causes the 12BY7 to run away and the filaments are overvoltaged. There is a simple transformer tap change in the Kenwoods and Yaesus that corrects this problem. It is still tapped correctly for 120 if one needs to go back for some reason such as generator operation.

Vy 73, Walt N9WB

----- Original Message -----
From: Richard Harris
To: 'TS-520_820_530_830@yahoogroups.com'
Sent: Wednesday, August 23, 2006 1:15 PM
Subject: RE: [TS-520_820_530_830] Line Voltage Fluctuations

Hi Walt,

Many thanks for your description of what happens when you have a "neutral fault" in the US. I was aware that there were two voltage standards in the US, but I didn't understand the basis for them.

In the UK, the area distribution is 3-phase 11kV (I believe) with local transformers that give 230V between each phase and the star-point of this transformer. The star-point is connected to earth at the transformer, I assume with a substantial earth rod. Houses are distributed over the three phases to maintain a reasonably balanced load (only one phase per house for safety). The two wires entering the house are defined as "live" and "neutral", the neutral being connected back to the star-point of the local transformer. The "Neutral" is usually only a volt or two above earth (due to the voltage drop in the neutral wire) whilst the "Live" is 230V above earth and so very hazardous. The mains frequency is 50Hz.

These days, house wiring has the house safety earth terminal connected to the neutral where it enters the house. All water pipes, central heating pipes etc are bonded together and connected to the house earth terminal. As explained in my earlier e-mail, because all exposed appliance metalwork and water pipes in the house are electrically bonded together, then a neutral fault outside of the house won't be hazardous to the occupants even though the house earth wiring will rise to near 230V.

A ham who has an earth rod for his antenna brought in to his shack is now at risk because a fault in the neutral line between the transformer and house will put 230V between any exposed conductors such as water pipes, radiators or metal parts equipment and his earth rod. The choice for the ham is now between an electrical fire or electrocution. Not a choice I want to make! This is why the RSGB Handbook warns against the use of earth rods for antennas and why I just tune my long wire "against" the mains earth wiring. Not perfect, but I get plenty of contacts and no one has complained about TVI/BCI (as yet).

As I mentioned in my earlier posting to the group, the fault discussed above would result in at least part of many antenna systems rising to 230V relative the outside terrain. This could include towers carrying beams. A good insurance policy with substantial public liability cover would seem to be in order....

Unlike the US system that you describe, I don't think that a Neutral conductor fault in the UK can over-volt the equipment.

Finally, a letter in the latest RSGB "Rad Com" magazine warns about using some equipment intended for the US 220V supply in the UK and recommends setting it to 115V and using an autotransformer to drop the mains voltage. Now you have explained some of the problems, I will go back and read the letter again to better understand it.

Richard G3OTK

[Non-text portions of this message have been removed]

8977. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 07:17:37 UTC
From: Peter A Markavage
Topic: 8954 Message: 8977

Don't understand it either. The 850 has a better receiver, and transmit audio wise, it will run rings around the 830.
Hey, I got an 830. Anybody wanna trade for an 850 or 870??

Pete, wa2cwa

On Thu, 24 Aug 2006 03:26:11 -0000 "Gordon" <n6wk@...> writes:
> I agree, I'd be tempted to trade my Mint 830 and VFO-240 with cash
> for
> another TS-850S.
> I love my 830, But my 850 is really a nice rig (I have all the
> filters
> installed in it also)
> I think my 850 might just have the best receiver of all my rigs.
> Don't get me wrong, I really like the 830 also, but the 850...
> well,
> what can I say!
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
> >
> > Why would you trade an 850 for an 830.?
> > Walt N9WB
> > ----- Original Message -----
> > From: max_ve3tmt
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, August 23, 2006 6:37 PM
> > Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for
> TS-530S
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> > > <wayfound2000@> wrote:
> > > >
> > > > Hello Folks! I am experimenting with quality audio set-up on
> my TS-
> > > > 530S. Would it be an advantage to fit a 2.8KHZ filter from
> inrad? Has
> > > > anyone else tried this? If so what results have you had and
> what
> > > > adjustments did you need to make...carrier insertion etc
> > > > many thanks!
> > > >
> > > Exactly what I am planning on with the 830 I have coming. I

> picked up
> > a Kenwood 3 Khz SSB filter to drop into it. You might want to
> study
> > the schematics and/or service manual to accustom yourself with
> the TX
> > path in the 530. I'm sure these tube final rigs will sound sweet
> with
> > the proper setup. I am currently using a Behringer mic with a
> W2IHY 8
> > band EQ on my 850 which will soon be tranplanted to the 830.
> >
> > Max VE3TMT

8978. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 07:26:28 UTC
From: Peter A Markavage
Topic: 8954 Message: 8978

If you're looking for "quality audio" (whatever that means on SSB), you most likely would have to by-pass the front-end audio circuitry (or modify it) and go directly in the balanced modulator stage. 830 audio circuitry was never tailored for "quality Hi Hi FB audio". You can add as many boxes as you like between the mike and the mike jack.

Pete, wa2cwa

On Wed, 23 Aug 2006 23:37:38 -0000 "max_ve3tmt" <max_ve3tmt@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000" <wayfound2000@...> wrote:
> >
> > Hello Folks! I am experimenting with quality audio set-up on my TS-
> > 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> > anyone else tried this? If so what results have you had and what
> > adjustments did you need to make...carrier insertion etc
> > many thanks!
> >
> Exactly what I am planning on with the 830 I have coming. I picked up
> a Kenwood 3 Khz SSB filter to drop into it. You might want to study
> the schematics and/or service manual to accustom yourself with the TX
> path in the 530. I'm sure these tube final rigs will sound sweet with
> the proper setup. I am currently using a Behringer mic with a W2IHY 8
> band EQ on my 850 which will soon be tranplanted to the 830.
>
> Max VE3TMT
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>

>
>
>
>
>
>

8979. Re: [TS-520_820_530_830] Kenwood Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 07:33:59 UTC
From: Peter A Markavage
Topic: 8919 Message: 8979

Well, it seems like a lot are interested in this DH switch info. If you want a copy of it, send me an SASE. I don't have the time or the ambition to diddle with making scans, files, e-mail attachments, etc.
QRZ or call book address is fine.
Pete, wa2cwa

8980. Re: TS-520S, No WWV reception

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 06:12:32 UTC
From: tj_ki4etm
Topic: 8910 Message: 8980

Thanks,
Yea, just now found a service manual on the internet.
So do I need to need to look for a voltage coming to the diodes?
>
> The WWV circuit is separate from the normal RX circuit. It is diode
> switched where the antenna comes into the RF unit and has it's own
> pre-amp and mixer circuit. Usually the voltage to switch the diodes
is
> missing.
>
> Do you have a service manual?
>
> Clif
>

8981. Re: [TS-520_820_530_830] Re: Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 11:10:31 UTC
From: Jim Lohff
Topic: 8914 Message: 8981

Deoxit power booster,$1.97, Radio Shack p/n 640-4336

Deoxit pro gold, $2.97, Radio Shack p/n 640-4337

tad wrote:
> What is the radio shack part number. I would like to call my store
> before driving out there?????
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "G. Sturos"
> <radiow8idb@...> wrote:
>
>>I went to one of the local RS stores and bought the last two
>
> units. Hard to believe they once sold for 10 bux. Anyhoo, got home,
> opened the packages and found one completely dry, and second one took
> about 5 minutes to get a damp spot on my desk, about 1/8" in diameter.
>
>>
>> If anyone plans on buying this item, you might try testing them
>
> in the store before leaving.
>
>>
>> 73, Gordy
>>
>>dave@... wrote:
>> FWIW, I wandered into a RadioShack store yesterday and
>
> found the Deoxit
>
>>'pen' style dispensers on clearance sale for just under $2.00.
>
> That's a
>
>>good discount from the $10 normal price, so it may be worth a look
>
> if you
>
>>have a shop in your area.
>>
>>These can be used to clean up the switches and contacts in your

>
> vintage
>
>>Kenwood hybrids (I'm trying to get back on topic :)
>>
>>73,
>>- Dave
>>W6OT
>>
>>
>>
>>
>>
>>
>>Why the heck should I have to press "1" for English.
>>
>>---------------------------------
>> All-new Yahoo! Mail - Fire up a more powerful email and get things
>
> done faster.
>
>>[Non-text portions of this message have been removed]
>>
>
>
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

8982. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 11:56:10 UTC
From: max_ve3tmt
Topic: 8954 Message: 8982

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Don't understand it either. The 850 has a better receiver, and transmit
> audio wise, it will run rings around the 830.

Well I'll admit the 850 is a nice radio, I've owned four of them, but
I wouldn't say it would run circles around the 830. I think the 830
has better TX audio and the receive is very quiet. I've owned a few of
them too. Obviously the 850 has a lot more going for it, but for basic
SSB operation the 830 is hard to beat. It comes with a matching SP230
and AT230 and "NEW" MC50 mic. I'd like to acquire a complete line as
it was one of my first HF rigs. So I may have a mint MC50 up for sale
soon.

Max

8983. Re: [TS-520_820_530_830] 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 13:40:07 UTC
From: n9wb
Topic: 8954 Message: 8983

Max:
I have a Kenwood T-820 that I purchased an INRAD model 88 2.8 kHz filter for. I was wanting to improve my transmit audio a bit by extending the low end to 200 Hz instead of 400 Hz without losing any high end. To my very pleasant surprise, it made the receiver awesome! Even though it is a bit wider, the skirts are sharper so I actually found that in many cases, adjacent frequency interference, particularly from strong signals was improved. The audio quality was very much improved as well as the ease of tuning in SSB signals. the top of the curve is smoother "less bumps" resulting in much better sound. I feel that it has more than doubled the personal value of my TS-820 to me. The TS-820 also has a small problem that many people do not notice. The AGC overshoots a bit causing the IF to overload for a very short instant on voice peaks. The model 88 has an extra pole and reduces the IF gain ever so slightly. This fixed the overshoot problem. I love the receive audio that I am getting from this rig now.

The model 88 will also work in a TS-530.

A TS 830 is dual conversion so in addition to the model 88, you will need a model 89, which is also 2.8 kHz for the 455 kHz IF.

BTW, I have never been pleased with narrower filters on SSB such as 2.1 or 1.8 kHz. . To me, they sound like wet cotton is in my ears.

Vy 73, Walt N9WB

----- Original Message -----
From: wayfound2000
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 1:24 PM
Subject: [TS-520_820_530_830] 2.8KHZ Inrad filter for TS-530S

Hello Folks! I am experimenting with quality audio set-up on my TS-530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has anyone else tried this? If so what results have you had and what adjustments did you need to make...carrier insertion etc
many thanks!

8984. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 12:50:03 UTC
From: max_ve3tmt
Topic: 8954 Message: 8984

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

> BTW, I have never been pleased with narrower filters on SSB such as
2.1 or
> 1.8 kHz. . To me, they sound like wet cotton is in my ears.
>
> Vy 73, Walt N9WB

I couldn't agree more Walt. I've always preferred the full range SSB sound. I am a little concerned because the filter I have for the 8.83 IF is 3 khz wide and as you mentioned the widest I can get for the 455 IF is 2.8, although still better than 2.4 Khz. I put the 3 khz filter in the 850 temporarily and did notice a slight difference with it over the 2.7 filter. I guess for full effect I will have to change both, although the INRAD is pricey at $155.

Max VE3TMT

8985. Re: [TS-520_820_530_830] TS-820S Blowing Fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:07:31 UTC
From: n9wb
Topic: 8967 Message: 8985

Mike:

STOP!, HALT!,QUIT! UNPLUG THE RIG. Go to the Files section of this site and read the article, "Save your transformer". You have a fairly simple problem, but you are about to have a major expensive one that can render your rig as a parts radio.

Build the light bulb tester, that is a 100 watt light bulb in series with the live side of the AC line. It will glow bright when there is a short and dim if there is not one. It will act as a ballast and keep the transformer from overloading. Every time you blow a fuse you are stressing the transformer greatly and soon it will short. Transformers for these rigs are very expensive and very hard to find.

Now, once you get the light bulb tester connected, you need to locate the short. It is most likely a shorted tube. It can also be caused by no negative grid bias. I am betting on the tubes. Again, with the light bulb in line, turn the SG switch on the back off and turn the filaments on. If all is proper the light bulb will glow bright and dim as the tubes warm up. If it glows bright starts to dim and then brightens again, likely the tubes are shorted. If you have a tube short, you need to check the 10 ohm resistors on the final unit board that go to the cathode circuit. they usually burn out and need to be replaced when this happens.

Make the light bulb tester and get back with us.We will help you fix the rig.

Vy 73, Walt N9WB

----- Original Message -----
From: mikefr24
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 8:37 PM
Subject: [TS-520_820_530_830] TS-820S Blowing Fuses

The rig now works perfect in recieve mode. When I turn on the heater,
the fuse blows about 10-15 seconds later. I have blown two 4 amp
fuses and am now concerned. I am not even transmitting, the send key
is in recieve mode and the MODE switch is USB. I do not even have a
mic or CW key installed. (VOX is off too). I have read the manual
several times about tuning the finals and can't even get to that part.

Mike

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

8986. Re: [TS-520_820_530_830] TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:13:34 UTC
From: n9wb
Topic: 8971 Message: 8986

Be sure that the bandswitch coupling that connects the bandswitch shaft to the wafers in the final unit is proper. It may not be turning the wafers in the final unit properly. the previous owner may have had this problem and tried to fix it by turning the coils that you just fixed.

Vy 73, Walt N9WB

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 10:30 PM
Subject: [TS-520_820_530_830] TS-830S No Plate Current Dip

Hello to "The Group".

I finally got the receiver working in my recently purchased TS-830S, and now I am starting on the transmitter.

Snip:

8987. Re: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:19:49 UTC
From: n9wb
Topic: 8914 Message: 8987

OUCH! now I am afraid to take a bath! Walt N9WB

----- Original Message -----
From: Richard Harris
To: 'TS-520_820_530_830@yahoogroups.com'
Sent: Thursday, August 24, 2006 1:53 AM
Subject: RE: [TS-520_820_530_830] Somewhat OT - cheap Deoxit at Radio Shack

Walt,

My warnings about the dangers of a neutral line fault are based on what happens with the UK wiring standard and may or may not be applicable in countries that use different distribution techniques. You have to think it through for each situation.

However, to answer your question about connecting it to the main earthing terminal in the house. I think the answer to this is no because it would be no good as an RF earth and in the event of a neutral fault the current in the earth wire is not limited in any way. The current depends on the equipment and appliances connected - after all the neutral fault may be close to the transformer in which case it is not just the equipment in my house, but those of my neighbours as well.

Many years ago I was renting a house that had old wiring and may have relied on earthing to the incoming metal water pipe - that's how things were done many years ago over here. Unfortunately, the incoming water pipe had probably been changed to a plastic pipe and was no longer a connection to the "real earth". For some reason, there was a live-to-earth short and all of the water pipes in house rose up to 230V. I discovered this whilst taking a bath, when I tried turning on the hot tap with my foot! The only reason I am am here to write this e-mail is that the current through me was due to the capacitance of the water and myself to earth, perhaps a few hunderd pF, so the current was small. Needless to say, I moved elsewhere shortly afterwards!

Richard G3OTK

8988. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:27:44 UTC
From: n9wb
Topic: 8954 Message: 8988

If you have a 3 kHz filter for the 8.83 IF, place it there and use the 2.8 in the 455 kHz.
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 7:50 AM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

> BTW, I have never been pleased with narrower filters on SSB such as
2.1 or
> 1.8 kHz. . To me, they sound like wet cotton is in my ears.
>
> Vy 73, Walt N9WB

I couldn't agree more Walt. I've always preferred the full range SSB
sound. I am a little concerned because the filter I have for the 8.83
IF is 3 khz wide and as you mentioned the widest I can get for the 455
IF is 2.8, although still better than 2.4 Khz. I put the 3 khz filter
in the 850 temporarily and did notice a slight difference with it over
the 2.7 filter. I guess for full effect I will have to change both,
although the INRAD is pricey at $155.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

8989. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 13:57:34 UTC
From: John Harp
Topic: 8954 Message: 8989

Thank you, but no. The audio is good enough for me. I'll keep my 830's both of them.And my Digital VFO 240 and the SP230 matching speaker and the MC-50and...

Peter A Markavage <pmarkavage@...> wrote: Don't understand it either. The 850 has a better receiver, and transmit
audio wise, it will run rings around the 830.
Hey, I got an 830. Anybody wanna trade for an 850 or 870??

Pete, wa2cwa

On Thu, 24 Aug 2006 03:26:11 -0000 "Gordon" <n6wk@...> writes:
> I agree, I'd be tempted to trade my Mint 830 and VFO-240 with cash
> for
> another TS-850S.
> I love my 830, But my 850 is really a nice rig (I have all the
> filters
> installed in it also)
> I think my 850 might just have the best receiver of all my rigs.
> Don't get me wrong, I really like the 830 also, but the 850...
> well,
> what can I say!
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
> >
> > Why would you trade an 850 for an 830.?
> > Walt N9WB
> > ----- Original Message -----
> > From: max_ve3tmt
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, August 23, 2006 6:37 PM
> > Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for
> TS-530S
> > >
> > >
> > --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> > <wayfound2000@> wrote:
> > > >
> > > Hello Folks! I am experimenting with quality audio set-up on
> my TS-
> > > 530S. Would it be an advantage to fit a 2.8KHZ filter from
> inrad? Has
> > > anyone else tried this? If so what results have you had and
> what
> > > adjustments did you need to make...carrier insertion etc

> > > many thanks!
> > >
> > Exactly what I am planning on with the 830 I have coming. I
> picked up
> > a Kenwood 3 Khz SSB filter to drop into it. You might want to
> study
> > the schematics and/or service manual to accustom yourself with
> the TX
> > path in the 530. I'm sure these tube final rigs will sound sweet
> with
> > the proper setup. I am currently using a Behringer mic with a
> W2IHY 8
> > band EQ on my 850 which will soon be tranplanted to the 830.
> >
> > Max VE3TMT

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

8990. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:19:50 UTC
From: John Harp
Topic: 8954 Message: 8990

I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

n9wb <n9wb@...> wrote: Why would you trade an 850 for an 830.?
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@...m
Sent: Wednesday, August 23, 2006 6:37 PM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study
the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8991. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:34:54 UTC
From: Rick May
Topic: 8954 Message: 8991

Hi All,

The stock Murata CFJ455K5 or CFJ455K12 filter in your 830S' 455khz I.F. is already 2.9khz wide. Before I bought a 2.8khz 455khz Inrad filter to drop in my 830S, just swap out the 8.83mhz filter with your 3khz filter and see if you like the audio response. Read Rich Measures "Circuit Improvements and Maintenance Procedures for the TS-830S" at http://www.somis.org/830.html where he talks about swapping out both the RX and TX audio roll off capacitors. Also, write this down where you will remember it ....'NEVER USE CERAMIC CAPS IN AUDIO CIRCUITS!' They will skew the audio response. Use electrolytic, mylar, tantalum or plastic ones. Also, as the Inrad 8.83 filters are much larger than the stock Kenwood YK filters and you have to use RG-174 coax to connect the Inrad filter to your I.F. board, make sure you use .01 caps on the + leads to the filter or you will have dead short.....You will wonder why your Kenwood went deaf.

73' Rick KC0HH
Lamar, Colorado

n9wb <n9wb@...> wrote: If you have a 3 kHz filter for the 8.83 IF, place it there and use the 2.8 in the 455 kHz. Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 7:50 AM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

> BTW, I have never been pleased with narrower filters on SSB such as
2.1 or
> 1.8 kHz. . To me, they sound like wet cotton is in my ears.
>
> Vy 73, Walt N9WB

I couldn't agree more Walt. I've always preferred the full range SSB sound. I am a little concerned because the filter I have for the 8.83 IF is 3 khz wide and as you mentioned the widest I can get for the 455 IF is 2.8, although still better than 2.4 Khz. I put the 3 khz filter in the 850 temporarily and did notice a slight difference with it over the 2.7 filter. I guess for full effect I will have to change both, although the INRAD is pricey at $155.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

8992. Re: [TS-520_820_530_830] Re: Somewhat OT - cheap Deoxit at Radio Shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:38:27 UTC
From: John Harp
Topic: 8914 Message: 8992

Now you know why they were cheap. They'd been sitting on the shelf for so long.

I did the same thing with a can of CRC Lectra Clean a month ago. It normally sells for upwards of $40. I bought it for $6.49. I got it home and started to use it and found I used half the can and the propellant was gone. I had to go back to Home Depot for another can. I got the job done for still less than I would have payed for the full priced can, But here are two cans of solvent half-full. guess I should find another container to keep all the solvent in for another project that may not happen till after the solvent is no longer usable.

dave@... wrote:
Searching on www.radioshack.com shows #64-4336, see:
http://www.radioshack.com/search/index.jsp?kwCatId=&kw=deoxit&origkw=deoxit

There's also a way to check what stores have it in your area, but I'm not sure how accurate the info is.

- Dave
W6OT

> What is the radio shack part number. I would like to call my store
> before driving out there?????
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "G. Sturos"
> <radiow8idb@...> wrote:
>>
>> I went to one of the local RS stores and bought the last two
> units. Hard to believe they once sold for 10 bux. Anyhoo, got home,
> opened the packages and found one completely dry, and second one took
> about 5 minutes to get a damp spot on my desk, about 1/8" in diameter.
>>
>> If anyone plans on buying this item, you might try testing them
> in the store before leaving.
>>
>> 73, Gordy
>>
>> dave@... wrote:
>> FWIW, I wandered into a RadioShack store yesterday and
> found the Deoxit
>> 'pen' style dispensers on clearance sale for just under $2.00.
> That's a
>> good discount from the $10 normal price, so it may be worth a look

> if you
>> have a shop in your area.
>>
>> These can be used to clean up the switches and contacts in your
> vintage
>> Kenwood hybrids (I'm trying to get back on topic :)
>>
>> 73,
>> - Dave
>> W6OT
>>
>>
>>
>>
>>
>>
>> Why the heck should I have to press "1" for English.
>>
>> ---------------------------------
>> All-new Yahoo! Mail - Fire up a more powerful email and get things
> done faster.
>>
>> [Non-text portions of this message have been removed]
>>
>
>
>
>
>
>
>
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8993. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:44:16 UTC
From: max_ve3tmt
Topic: 8954 Message: 8993

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

The TX bandwidth is limited by what filters are in the radio. It is all a matter of opinion. Personally I find 2.4 to be a little narrow, although some people find it quite acceptable. Widening it up to 2.8 or 3.0 khz makes for very comfortable listening and the difference is noticeable. Again it is all a matter of personal preference. When you swap the filters it also affects your TX bandwidth. The wider filters will give your signal a fuller sound with nice lows. Years ago I swapped the standard 2.4 filter out of a TS570 and put a 3 Khz filter in and the difference was amazing. Hopefully I'll get the same results with the 830. I know they sound great as is, it is my fall project.

Max

8994. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:46:39 UTC
From: Rick May
Topic: 8954 Message: 8994

Hi John,

The answer to your question is audio fidelity. Plus, if you use a spectrum analyzer to see what your total passband is on your receiver that has both first and second I.F. filters, you will be surprised to see that it is narrower than either filter value. I.E., If you have a pair of 2.4khz filters your total passband will be approx. 2.2khz. Your 830S manual states total passband is 2.4 khz and if you look in the schematic you will see it has a 2.7 in the 8.83 and a 2.9 in the 455 I.F respectively...

73' Rick KC0HH
Lamar, Colorado

John Harp <ka3dpw@...> wrote: I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

n9wb <n9wb@...> wrote: Why would you trade an 850 for an 830.?
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 6:37 PM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study
the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8995. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 14:57:12 UTC
From: max_ve3tmt
Topic: 8954 Message: 8995

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:

Also, as the Inrad 8.83 filters are much larger than the stock Kenwood YK filters and you have to use RG-174 coax to connect the Inrad filter to your I.F. board, make sure you use .01 caps on the + leads to the filter or you will have dead short.....You will wonder why your Kenwood went deaf.

Hey Rick,

The filter I have is the YK88S2, which is identical in size to the standard filters found in mosst of the Kenwoods. So you have given me some encouragement, and maybe saved me some money!

Max

8996. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:04:11 UTC
From: Rick May
Topic: 8954 Message: 8996

Hello All,

The Kenwood YK filters are ...YK88S (2.4khz) YK88S1 (2.7khz) and YK88S2 (3.0khz.) Do not confuse the filters with a hyphen before the last number 1...As in YK88S-1. The -1 filters are mounted on a plug in board for post 440S model Kenwoods. The YK-88S2 and CFJ455K12 (Yes, the same little Murata ceramic one as in your 830S) are the stock filters in the TS-870S

73' Rick KC0HH
Lamar, Colorado

wayfound2000 <wayfound2000@...> wrote:
Hello Max. Interesting! I didn't know kenwood made a 3KHZ
Filter...whats the model number for it? . Re my original post I
meant the carrier insertion point...not just insertion...although AM
would be interesting! Let me know how you get on...Incidently a
teardrop 575M6 sounds great on a TS-830! All the best
Pete G4HAK

73' Rick KC0HH
Lamar, Colorado

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

8997. Re: [TS-520_820_530_830] TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:04:07 UTC
From: David Rust
Topic: 8971 Message: 8997

Walt, thats exacly whats ailing my 530s, the coupling in the final rf compartment is cracked. I have the brass replacement on order from K4EAA, Ken to put the fix on it.
73
Dave W0DLR

[Non-text portions of this message have been removed]

8998. Re: [TS-520_820_530_830] 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:03:04 UTC
From: John Harp
Topic: 8954 Message: 8998

That's what I was wondering too. CW and Single-Side-band the TS-530 and TS-830 have plenty even for SSTV. AM and FM are wider modes.

Peter A Markavage <pmarkavage@...> wrote: "carrier insertion etc "?????
Out of the box, the Inrad 2.8 is a drop in replacement in the 8860 IF
chain.
You trying to get an AM mode out of this rig??

Pete, wa2cwa

On Wed, 23 Aug 2006 18:24:46 -0000 "wayfound2000"
<wayfound2000@...> writes:
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad?
> Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

8999. Re: TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:22:21 UTC
From: Clif
Topic: 8971 Message: 8999

SNIP

>
> The bandswitch has been removed from the RF Board and remounted, but Kenwood service worked on this radio years ago and may have done this - or maybe not. In switching from band-to-band in receive, nothing "weird" seems to be happening with the bandswitch. The digital display seems very stable in switching from band-to-band. It appears that the original insulated shaft coupling going into the RF cage is in good shape, and the switching action in the final tank circuitry looks positive. Is it possible that when the bandswitch was removed/replaced that the shaft coupling was re-tightened with the final tank circuit switches in the wrong rotation position? Does anyone know an easy way to check this?
>
> All the power supply voltages are good, and everything else seems to be ok, except no 6146 plate tank circuit resonance on most bands (and the resonance on 17M is at the wrong position of the Plate Tuning capacitor).
>
> Any ideas or comments on how to analyze this situation will be appreciated. Thanks for listening.
>
> 73, Bill, K5GCW
>
>
>
> [Non-text portions of this message have been removed]
>

To align the bandswitch sections;

Put the radio on 10Mhz. The flats on the shaft should be vertical. Check the shaft in the final compartment. There should be a flat to the outside (right side of radio viewed from front) and one to the bottom. This is the correct alignment.

Clif

9000. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:23:10 UTC
From: John Harp
Topic: 8954 Message: 9000

OK Max, Thank You.

I never heard of this before. But with what's left of my hearing I probably couldn't tell the difference anyway, I must admit. I got used to the older radios over the years and the TS-830 was as much as I needed for front end-recieve.

Transmit was just I needed to hear what was said (intelligibility). To me I got good reports back in QSO's and the signal climbed over the qRM and N and B enough to do the job.

Good luck with the project Max. Enjoy.

max_ve3tmt <max_ve3tmt@yahoo.ca> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

The TX bandwidth is limited by what filters are in the radio. It is all a matter of opinion. Personally I find 2.4 to be a little narrow, although some people find it quite acceptable. Widening it up to 2.8 or 3.0 khz makes for very comfortable listening and the difference is noticeable. Again it is all a matter of personal preference. When you swap the filters it also affects your TX bandwidth. The wider filters will give your signal a fuller sound with nice lows. Years ago I swapped the standard 2.4 filter out of a TS570 and put a 3 Khz filter in and the difference was amazing. Hopefully I'll get the same results with the 830. I know they sound great as is, it is my fall project.

Max

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9001. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:29:17 UTC
From: John Harp
Topic: 8954 Message: 9001

OK so what is aimed for by the other person is just a little more band width and thus a better sound results? is that I am to understand?

Rick May <kc0hh@...> wrote: Hi John,

The answer to your question is audio fidelity. Plus, if you use a spectrum analyzer to see what your total passband is on your receiver that has both first and second I.F. filters, you will be surprised to see that it is narrower than either filter value. I.E., If you have a pair of 2.4khz filters your total passband will be approx. 2.2khz. Your 830S manual states total passband is 2.4 khz and if you look in the schematic you will see it has a 2.7 in the 8.83 and a 2.9 in the 455 I.F respectively...

73' Rick KC0HH
Lamar, Colorado

John Harp <ka3dpw@yahoo.com> wrote: I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

n9wb <n9wb@...> wrote: Why would you trade an 850 for an 830.?
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 6:37 PM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study
the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9002. Re: [TS-520_820_530_830] Re: TS-830S No Plate Current Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 16:42:47 UTC
From: Bill Scurlock
Topic: 8971 Message: 9002

Thank you Clif. I will go check it out and let you know.

Bill
----- Original Message -----
From: Clif
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 10:22 AM
Subject: [TS-520_820_530_830] Re: TS-830S No Plate Current Dip

SNIP

>
> The bandswitch has been removed from the RF Board and remounted, but Kenwood service worked on this radio years ago and may have done this - or maybe not. In switching from band-to-band in receive, nothing "weird" seems to be happening with the bandswitch. The digital display seems very stable in switching from band-to-band. It appears that the original insulated shaft coupling going into the RF cage is in good shape, and the switching action in the final tank circuitry looks positive. Is it possible that when the bandswitch was removed/replaced that the shaft coupling was re-tightened with the final tank circuit switches in the wrong rotation position? Does anyone know an easy way to check this?
>
> All the power supply voltages are good, and everything else seems to be ok, except no 6146 plate tank circuit resonance on most bands (and the resonance on 17M is at the wrong position of the Plate Tuning capacitor).
>
> Any ideas or comments on how to analyze this situation will be appreciated. Thanks for listening.
>
> 73, Bill, K5GCW
>
>
>
> [Non-text portions of this message have been removed]
>

To align the bandswitch sections;

Put the radio on 10Mhz. The flats on the shaft should be vertical. Check the shaft in the final compartment. There should be a flat to the outside (right side of radio viewed from front) and one to the bottom. This is the correct alignment.

Clif

[Non-text portions of this message have been removed]

9003. Shelf Life of Caig DeoxIT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 16:38:01 UTC
From: N3DOK
Topic: 9003 Message: 9003

Hi, I check the Caig web site. Here is what they list for the shelf life of DeoxIT. I put the date of purchase on chemicals that I purchase. Also the price. It explains why the tube of glue was hard as a rock. I bought it years ago. Gorilla Glue has a 6 months life, after you open it.

Bob N3DOK

* Warranty ** Storage - Life

DeoxIT 100% Liquid 1 year 2-3 years

DeoxIT 5% Liquid 1 year 2-3 years

DeoxIT 5% Sprays 1 year 2-3 years

* Warranty: CAIG will warranty its products for a period of 1 year from invoice date. Storage conditions must be

adhered to.

** Storage Life: If storage directions are adhered to, products will last considerably longer. Values are

conservative. If coloration or separation of products occur, we recommend discarding and purchasing new

product.

Storage Instructions: Store in a cool, dry place. Keep container tightly closed. Do not subject to excessive heat

or cold.

Avoid Contaminating Solutions: When using bulk liquids we recommend transferring small amounts into a

smaller container for use. This will avoid contamination of the larger container from dirty cleaning swabs, cloths,

brushes, etc.

http://store.caig.com/

[Non-text portions of this message have been removed]

9004. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 17:05:40 UTC
From: Rick May
Topic: 8954 Message: 9004

Hi John,

Yes, to a point.... There is a point of diminishing return on filter bandwidths. You would put 2.8khz filters in your radio to have more high and lows in both transmit and receive audio for a fuller, more natural sound. You will lose some selectivity though. Also, people seem to forget that they transmit through these filters. Some people are using 3.3khz filters trying for that ultimate 'hi-fi' sound and invoking the wrath of other people on the bands because while their audio may be better (very subjective), their transmit signals are VERY wide. They may also find it more expensive when they get popped by the FCC for having a signal wider than 3khz. Conversely, it sends shivers up my spine, like fingernails on a chalkboard, to listen to people with 1.8khz filters in their radios. They sound like 12 year olds. Before I swapped filters though, I would work with the audio rolloff capacitors in the radio. Your radio may not pass any audio frequency over 2.5khz regardless of filter bandwidth. Using 2.8khz filters offer a good balance between fidelity and selectivity. But, if you like to work contests or just like to hunt around during contest time for new countries, stick with the 2.4khz. filters.

73' Rick KC0HH
Lamar,Colorado

John Harp <ka3dpw@...> wrote: OK so what is aimed for by the other person is just a little more band width and thus a better sound results? is that I am to understand?

Rick May <kc0hh@yahoo.com> wrote: Hi John,

The answer to your question is audio fidelity. Plus, if you use a spectrum analyzer to see what your total passband is on your receiver that has both first and second I.F. filters, you will be surprised to see that it is narrower than either filter value. I.E., If you have a pair of 2.4khz filters your total passband will be approx. 2.2khz. Your 830S manual states total passband is 2.4 khz and if you look in the schematic you will see it has a 2.7 in the 8.83 and a 2.9 in the 455 I.F respectively...

73' Rick KC0HH
Lamar, Colorado

John Harp <ka3dpw@yahoo.com> wrote: I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

n9wb <n9wb@...> wrote: Why would you trade an 850 for an 830.?
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 6:37 PM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study
the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9005. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 17:22:05 UTC
From: Rick May
Topic: 8954 Message: 9005

Hi Max,

Yes, the YK88S2 will drop right in the 830S ....Look and see which Murata 455 filter you have. The older CFJ455K5 is ~3.2khz. while the newer CFJ455K12 is 2.9khz. If you have the older K5 filter, I wouldn't run much processing or you will be quite wide. You will probably also have to change out the audio coupling and frequency roll off capacitors in your radio to pass the higher frequencies.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:

Also, as the Inrad 8.83 filters are much larger than the stock Kenwood YK filters and you have to use RG-174 coax to connect the Inrad filter to your I.F. board, make sure you use .01 caps on the + leads to the filter or you will have dead short.....You will wonder why your Kenwood went deaf.

Hey Rick,

The filter I have is the YK88S2, which is identical in size to the standard filters found in mosst of the Kenwoods. So you have given me some encouragement, and maybe saved me some money!

Max

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9006. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 17:25:10 UTC
From: John Harp
Topic: 8948 Message: 9006

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@...> wrote: KA2HHB station pics uploaded.

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9007. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 17:29:47 UTC
From: Rick May
Topic: 8954 Message: 9007

Hi Max,

I had one of those 'duh' moments. You are talking about a 530S and thus no 2nd I.F. filter. The YK88S2 will work fine, although you might have to play with your audio coupling and roll off capacitors.

73' Rick KC0HH
Lamar,Colorado

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:

Also, as the Inrad 8.83 filters are much larger than the stock Kenwood YK filters and you have to use RG-174 coax to connect the Inrad filter to your I.F. board, make sure you use .01 caps on the + leads to the filter or you will have dead short.....You will wonder why your Kenwood went deaf.

Hey Rick,

The filter I have is the YK88S2, which is identical in size to the standard filters found in mosst of the Kenwoods. So you have given me some encouragement, and maybe saved me some money!

Max

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9008. OT TS-570S Is It A (G) version?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 15:28:34 UTC
From: Ken Gunton
Topic: 8914 Message: 9008

I know this group is for hybrids, but I'm sure you'll allow me one off-topic question:

I just received a TS-570S that I bought on E-Bay. How can I tell if it is the (G) upgraded version the seller says it is?

Any help would be greatly appreciated.

Still not giving up my 830S. The 570 will be mainly used for six meters and portable opns.

Thanks,
Ken W8ASA

9009. TS-830S No Plate Dip

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 18:27:02 UTC
From: Bill Scurlock
Topic: 9009 Message: 9009

Thanks to all of you for the assistance. It was the rotational position of the bandswitch inside the PA cage. It was 180 degrees off.

A special thanks to Clif who gave me the quick and easy way to determine the proper relative position of the PA switch in reference to 10 MHz.

This is just another confirmation that this is one of the best "reflectors" on the web.

The Plate dips as it should, and over 90 watts output - success. Now I can look for all the other items that need attention in this radio.

Thanks, 73, Bill, K5GCW

[Non-text portions of this message have been removed]

9010. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 18:50:18 UTC
From: max_ve3tmt
Topic: 8954 Message: 9010

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Max,
>
> I had one of those 'duh' moments. You are talking about a 530S
and thus no 2nd I.F. filter.

No duh moment Rick, it is in fact the 830 I am referring to. So when the radio gets here I will see what 455 filter it has in it. The 2.9 or 3.2 is fine either way, I have no desire to go wider than 3 khz anyway. I will try and couple the audio in after the mic amps as the W2IHY EQ has it's own amplifier. I use the mic in jack strictly for digital work although I will probably fill the 2 spare holes on the back with patch in and out lines.

Max

9011. Re: OT TS-570S Is It A (G) version?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 18:56:16 UTC
From: max_ve3tmt
Topic: 8914 Message: 9011

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
>
> I know this group is for hybrids, but I'm
> sure you'll allow me one off-topic question:
>
> I just received a TS-570S that I bought on
> E-Bay. How can I tell if it is the (G)
> upgraded version the seller says it is?
>
> Any help would be greatly appreciated.
>
> Still not giving up my 830S. The 570 will
> be mainly used for six meters and portable
> opns.
>
> Thanks,
> Ken W8ASA
>
Ken

The "G" model among other things, has a user programmable DSP menu.
You can, or could download a program off the net that would allow you
to set your own bandwidth and upload it to the radio. I also think
there is a power-on button sequence you can do to tell you if it is in
fact a "G" model.

Max

9012. Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 20:38:35 UTC
From: n9wb
Topic: 8954 Message: 9012

Most of these rigs roll off at 400 Hz. As a matter of fact they are 6 dB down at 400 Hz.

The audio gets much warmer and pleasant if we can move this 6 dB point down to say, 200 Hz. Now, we can do this by moving the carrier point a bit closer to the filter bandpass but this cuts a few hundred Hz from the top end and makes it sound limited and reduces articulation. This lost 200 Hz makes more difference than you would think. EQ boost at the top end will not fix this because the filter will no longer pass the lost 200 Hz. There is another issue of the top of the filter bandpass having ripple in some of these stock filters. This is why you can change identical stock filters and have a slightly different sound..

By adding the 2.8 kHz model 88 Inrad filter, at least to my TS-820, I gained 200 Hz at the low end and gained an additional 200 Hz at the top end over the original set up. Yes more bandwidth, but it is important how you position it.

With the Model 88 filter, interference to adjacent frequencies actually reduces because the skirt ratio is increased so while the flat bandwidth is a bit wider, the stuff that is above the bandpass that causes the interference is further suppressed than the original filter.

If you are a person that does not hate cell phone audio so long as you can understand it, and is satisfied listening to music through a small cone, this is not for you.

But if you prefer the distortion from a blues guitar that is generated by an overdriven vintage tube amp over that which was generated with a fuzz box, If you prefer the sound of a harp (harmonica) played through a vintage Astatic JT-30 over one using a Shure 58 , and like to hear the air switching through a sax or a cornet, You gotta have one.

For those who are not as radical as those above, it still makes the sound more "open".

Now you olde guys that have hearing problems, if you can still hear up to 4 kHz it might help you.

BTW I am 57

There is a limit on how close you can place the carrier point to the filter bandpass. The filter bandpass on filter rigs is part of the carrier suppression. If you get too close you start loosing carrier suppression. That is why I said down to 200 Hz instead of lower. The digital synthesized rigs do not have this problem as much. I can explain that more later.

ESSB is the extreme sport version of what we are doing. But with what we are doing, we do not have the bandwidth issues to deal with.

Some people like to jump out of perfectly good airplanes. I like to fly perfectly good airplanes and get beck to earth by landing them.

In all fairness to the pilots, I don't have a pilots license. I have flown quite a bit in friends planes wit them beside me. I love it.

I have two dreams in my life. One is to own a plane. The other is to be a Ham Radio Operator.

I have realized one of my dreams.
I will never realize the other.
But one out of two isn't bad.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 10:29 AM
Subject: Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

OK so what is aimed for by the other person is just a little more band width and thus a better sound results? is that I am to understand?

Rick May <kc0hh@...> wrote: Hi John,

The answer to your question is audio fidelity. Plus, if you use a spectrum analyzer to see what your total passband is on your receiver that has both first and second I.F. filters, you will be surprised to see that it is narrower than either filter value. I.E., If you have a pair of 2.4khz filters your total passband will be approx. 2.2khz. Your 830S manual states total passband is 2.4 khz and if you look in the schematic you will see it has a 2.7 in the 8.83 and a 2.9 in the 455 I.F respectively...

73' Rick KC0HH
Lamar, Colorado

John Harp <ka3dpw@...> wrote: I looked at my 830 manual. Page 24, says in the table on the lower right. with now filters installed total passband is 2.4 khz.Now I might be wrong, but I sense that the 830 was designed for only 2.4 kilohertz or less. What do you need so much passband for anyway might I ask?

n9wb <n9wb@...> wrote: Why would you trade an 850 for an 830.?
Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 23, 2006 6:37 PM
Subject: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I am experimenting with quality audio set-up on my TS-
> 530S. Would it be an advantage to fit a 2.8KHZ filter from inrad? Has
> anyone else tried this? If so what results have you had and what
> adjustments did you need to make...carrier insertion etc
> many thanks!
>
Exactly what I am planning on with the 830 I have coming. I picked up
a Kenwood 3 Khz SSB filter to drop into it. You might want to study

the schematics and/or service manual to accustom yourself with the TX
path in the 530. I'm sure these tube final rigs will sound sweet with
the proper setup. I am currently using a Behringer mic with a W2IHY 8
band EQ on my 850 which will soon be tranplanted to the 830.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

9013. TS-830M and CW narrow?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 18:46:21 UTC
From: antonio_aureli
Topic: 9013 Message: 9013

J really need an help, J owe a TS-830M, that is with AM "option" now J don't understand if to have a narrow CW capability J should put some CW filter, but there is not room for it inside, should J remove the AM filter and put CW one? Or there is not Narrow capability as the manual of the 830M doesn't mention filter?
hoping to find an help
'73 to all of you
Antonio Aureli IZ0DCK

9014. Re: OT TS-570S Is It A (G) version?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 19:56:13 UTC
From: Gordon
Topic: 8914 Message: 9014

Mine said TS-570S-G on the little label on the back of the rig. I beleive it was right by the Serial number. I sold mine, So I can't look at it to be sure where it was, but I know it was on the back and it did in fact say TS-570S-G

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
>
> I know this group is for hybrids, but I'm
> sure you'll allow me one off-topic question:
>
> I just received a TS-570S that I bought on
> E-Bay. How can I tell if it is the (G)
> upgraded version the seller says it is?
>
> Any help would be greatly appreciated.
>
> Still not giving up my 830S. The 570 will
> be mainly used for six meters and portable
> opns.
>
> Thanks,
> Ken W8ASA
>

9015. Re: TS-820S Blowing Fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 16:33:22 UTC
From: mikefr24
Topic: 8967 Message: 9015

Ok thanks. I will check this out ASAP! I have not had the rig on since I burnt out the last fuse. I sure hope I did not hurt the rig too bad. I'll get back to you soon with some answers.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Mike:
>
> STOP!, HALT!,QUIT! UNPLUG THE RIG. Go to the Files section of this site and read the article, "Save your transformer". You have a fairly simple problem, but you are about to have a major expensive one that can render your rig as a parts radio.
>
> Build the light bulb tester, that is a 100 watt light bulb in series with the live side of the AC line. It will glow bright when there is a short and dim if there is not one. It will act as a ballast and keep the transformer from overloading. Every time you blow a fuse you are stressing the transformer greatly and soon it will short. Transformers for these rigs are very expensive and very hard to find.
>
> Now, once you get the light bulb tester connected, you need to locate the short. It is most likely a shorted tube. It can also be caused by no negative grid bias. I am betting on the tubes. Again, with the light bulb in line, turn the SG switch on the back off and turn the filaments on. If all is proper the light bulb will glow bright and dim as the tubes warm up. If it glows bright starts to dim and then brightens again, likely the tubes are shorted. If you have a tube short, you need to check the 10 ohm resistors on the final unit board that go to the cathode circuit. they usually burn out and need to be replaced when this happens.
>
> Make the light bulb tester and get back with us.We will help you fix the rig.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: mikefr24
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, August 23, 2006 8:37 PM
> Subject: [TS-520_820_530_830] TS-820S Blowing Fuses
>
>
>
> The rig now works perfect in recieve mode. When I turn on the

heater,
> the fuse blows about 10-15 seconds later. I have blown two 4 amp
> fuses and am now concerned. I am not even transmitting, the send
key
> is in recieve mode and the MODE switch is USB. I do not even
have a
> mic or CW key installed. (VOX is off too). I have read the manual
> several times about tuning the finals and can't even get to that
part.
>
> Mike
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date:
8/23/06
>
>
> [Non-text portions of this message have been removed]
>

9016. hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 13:49:11 UTC
From: scott
Topic: 9016 Message: 9016

Hi to the group,
I have a TS-520S and am looking for suggestions on hand mics that would be good to use with this rig? What type of mic element, impedence (high I would think), maybe a make and model # to search for, etc. Thanks for reading and any suggestions. cheers, kg6brg.
scott.

9017. Re: 2.8KHZ Inrad filter for TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 19:59:58 UTC
From: max_ve3tmt
Topic: 8954 Message: 9017

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

> ESSB is the extreme sport version of what we are doing. But with
what we are doing, we do not have the bandwidth issues to deal with.

Great explanation Walt. I have no desire to widen my signal up so much
you can copy it on either sideband or transmit a carrier along with
the audio as I have so often heard on 14.178. It is quite possible to
have fantastic full body sounding audio in only 3 khz of spectrum,
that's my goal. And after that, I will add some audio DSP! And my wife
wonders why she never sees me anymore!

9018. Re: [TS-520_820_530_830] OT TS-570S Is It A (G) version?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 20:05:40 UTC
From: Rod Goff
Topic: 8914 Message: 9018

Hi Ken

This may help you. It did me

Rod in WV

What's the difference between the (G) and non-(G)

Versions of the Kenwood TS-570D and TS-570S radios?

Here are the features that the (G) series upgrade made to the 570D and S:

1. TX sound quality monitor with 9-step monitor volume for absolute control over voice

quality

2. NR1 (SSB) is operator controllable in 9-step increment, or automatically tracks input

signal strength

3. New CW DSP Filters (80 Hz, 150 Hz and 500 Hz) give you a total of 11 userselectable

filters

4. NR1 and NR2 settings can now re-configure automatically when changing mode

groups (SSB/AM/FM to CW/FSK)

5. Manual weight feature (with built-in electronic keyer) for adjusting the relative length
of

dots and dashes in 16 steps between 1:2.5 and 1:4.0

6. Equalize receive signals, and use different settings for both TX and RX

7. "One-touch" DSP filter wide mode allows 'resurfacing' to check the band conditions

when operating in narrow mode

8. Dual selectable Beat Cancel (BC) works against intermittent beat interference (except

in CW mode)

9. CW auto tune mode links only with the RIT frequency without changing the transmit

frequency

OK, so how do I tell if my radio is a (g) model?

The easiest way to tell if you have a (g) model is to press BC (near the upper-right

corner of the front panel) once -- it should beep. Then press and hold it. It should make two beeps (indicating it just went into the improvement listed at No. 8 above). If it does not give two beeps but instead one, lower-pitched beep (indicating an erroneous keypress), then you don't have a (g) model.

Meade K4CMD

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 11:28 AM
Subject: [TS-520_820_530_830] OT TS-570S Is It A (G) version?

I know this group is for hybrids, but I'm
sure you'll allow me one off-topic question:

I just received a TS-570S that I bought on
E-Bay. How can I tell if it is the (G)
upgraded version the seller says it is?

Any help would be greatly appreciated.

Still not giving up my 830S. The 570 will
be mainly used for six meters and portable
opns.

Thanks,
Ken W8ASA

[Non-text portions of this message have been removed]

9019. Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 20:08:11 UTC
From: max_ve3tmt
Topic: 9016 Message: 9019

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hi to the group,
> I have a TS-520S and am looking for suggestions on hand mics that
> would be good to use with this rig? What type of mic element,
> impedence (high I would think), maybe a make and model # to search
> for, etc. Thanks for reading and any suggestions. cheers, kg6brg.
> scott.
>
If you don't mind the weight, go for the Astatic D104M6B. Great audio
out of these babies.

9020. RE: [TS-520_820_530_830] OT TS-570S Is It A (G) version?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 20:22:19 UTC
From: Ken Gunton
Topic: 8914 Message: 9020

Thanks to all who answered. I lucked onto
a really nice guy at Kenwood in SoCal, who
told me to hit the menu button and turn
the multi-knob to see if it goes past menu
number 46. If it does, it's a G.

Apparently, the G added some cool things,
as you have below, but he told me that being
able to do some filter skirt shaping is
the best thing they added, in his opinion.

So, now I have to get my money back from the
guy who ripped me off.... grrrrr. I hope it
won't be a problem. He has a lot of positive
feedback on E-Bay.

Ken W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rod Goff
Sent: Thursday, August 24, 2006 4:06 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] OT TS-570S Is It A (G) version?

Hi Ken

This may help you. It did me

Rod in WV

What's the difference between the (G) and non-(G)

Versions of the Kenwood TS-570D and TS-570S radios?

Here are the features that the (G) series upgrade made to the 570D and S:

1. TX sound quality monitor with 9-step monitor volume for absolute control over
voice

quality

2. NR1 (SSB) is operator controllable in 9-step increment, or automatically
tracks input

signal strength

3. New CW DSP Filters (80 Hz, 150 Hz and 500 Hz) give you a total of 11
userselectable

filters

4. NR1 and NR2 settings can now re-configure automatically when changing mode

groups (SSB/AM/FM to CW/FSK)

5. Manual weight feature (with built-in electronic keyer) for adjusting the relative length of

dots and dashes in 16 steps between 1:2.5 and 1:4.0

6. Equalize receive signals, and use different settings for both TX and RX

7. "One-touch" DSP filter wide mode allows 'resurfacing' to check the band conditions

when operating in narrow mode

8. Dual selectable Beat Cancel (BC) works against intermittent beat interference (except

in CW mode)

9. CW auto tune mode links only with the RIT frequency without changing the transmit

frequency

OK, so how do I tell if my radio is a (g) model?

The easiest way to tell if you have a (g) model is to press BC (near the upper-right

corner of the front panel) once -- it should beep. Then press and hold it. It should make

two beeps (indicating it just went into the improvement listed at No. 8 above). If it does

not give two beeps but instead one, lower-pitched beep (indicating an erroneous

keypress), then you don't have a (g) model.

Meade K4CMD

----- Original Message -----
From: Ken Gunton
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 11:28 AM
Subject: [TS-520_820_530_830] OT TS-570S Is It A (G) version?

I know this group is for hybrids, but I'm
sure you'll allow me one off-topic question:

I just received a TS-570S that I bought on
E-Bay. How can I tell if it is the (G)

upgraded version the seller says it is?

Any help would be greatly appreciated.

Still not giving up my 830S. The 570 will
be mainly used for six meters and portable
opns.

Thanks,
Ken W8ASA

[Non-text portions of this message have been removed]

Yahoo! Groups Links

9021. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 20:53:45 UTC
From: Ruben Echevarria
Topic: 8948 Message: 9021

John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9022. MC50 Mic problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 21:59:39 UTC
From: Jack
Topic: 9022 Message: 9022

Hi Group. Great things are going on here. Here's my latest problem.
I have an MC50 mic that isn't working so I decided to remove the element
and see if there was anything wrong. There is. After removing the
cage, I carefully pulled the element out and found that it is not
wired to the mic base at all. I have a black and a white wire coming
from the mic base and only have a lose white wire on the mic element.
Can anyone describe to me or send me a pic of the mic element and how
it should be wired to the mic?

Thanks in advance ---- Jack

9023. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 22:50:39 UTC
From: John Harp
Topic: 8948 Message: 9023

Sorry Reuben, but for some reason or other the station pics I can't reach. In fact any of the archives I can't seem to get access to. It just comes up a yellow screen sys yahoo in red letters and has a white square box in the middle.

I went looking for save the transformer this morning, and all I got was that. Your pics the same way. But I definitely like your 360 page. The letters really stand off well in the background on the radio gear. yours got a little more work done than mine. you go by name and I go by call.

Hey you on the air yet? I keep remebering to ask you but for some reason or other I don't seem to recall an answer. That's my memory for you.

Ruben Echevarria <ka2hhb_2000@...> wrote:
John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9024. Re: [TS-520_820_530_830] Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:00:57 UTC
From: John Harp
Topic: 9016 Message: 9024

I asked the same question to my elmer at one time when he had a 520SE. He said a high impedance mic. Like a crystal mic. In fact it came up again in conversation a couple of weeks ago.

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hi to the group,
> I have a TS-520S and am looking for suggestions on hand mics that
> would be good to use with this rig? What type of mic element,
> impedence (high I would think), maybe a make and model # to search
> for, etc. Thanks for reading and any suggestions. cheers, kg6brg.
> scott.
>
If you don't mind the weight, go for the Astatic D104M6B. Great audio
out of these babies.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9025. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:10:01 UTC
From: Ruben Echevarria
Topic: 8948 Message: 9025

Just about on the air. The CW input jack was crunched by Fed-Ex and have to repair it. Otherwise
the radio is doing well. I plugged my key in and nothing happened, then I noticed it was tilted a bit.
The input plug didn't want to go in I tapped it lightly and it went, but seems like the contacts are stuck.
As soon as I plug in the key it goes into TX mode. So have to repair it.
I'll send you some pics direct.... 73 Ruben

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 6:50:39 PM
Subject: Re: [TS-520_820_530_830] Station Pics

Sorry Reuben, but for some reason or other the station pics I can't reach. In fact any of the archives I can't seem to get access to. It just comes up a yellow screen sys yahoo in red letters and has a white square box in the middle.

I went looking for save the transformer this morning, and all I got was that. Your pics the same way. But I definitely like your 360 page. The letters really stand off well in the background on the radio gear. yours got a little more work done than mine. you go by name and I go by call.

Hey you on the air yet? I keep remebering to ask you but for some reason or other I don't seem to recall an answer. That's my memory for you.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9026. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:12:04 UTC
From: Ruben Echevarria
Topic: 8948 Message: 9026

John this is the link to the photos.....

http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/browse/1ac2

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 6:50:39 PM
Subject: Re: [TS-520_820_530_830] Station Pics

Sorry Reuben, but for some reason or other the station pics I can't reach. In fact any of the archives I can't seem to get access to. It just comes up a yellow screen sys yahoo in red letters and has a white square box in the middle.

I went looking for save the transformer this morning, and all I got was that. Your pics the same way. But I definitely like your 360 page. The letters really stand off well in the background on the radio gear. yours got a little more work done than mine. you go by name and I go by call.

Hey you on the air yet? I keep remebering to ask you but for some reason or other I don't seem to recall an answer. That's my memory for you.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9027. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:31:26 UTC
From: John Harp
Topic: 8948 Message: 9027

OK, Reuben. It did the same thing to me again. So I turned off the Norton Internet Security for 5 minutes and closed the web page, upon reopening I could see the pics for the first time. Now I think I know why I haven't been able to reach into the archives also. Thank You Reuben.

Ruben Echevarria <ka2hhb_2000@...> wrote: John this is the link to the photos.....

http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/browse/1ac2

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@...m
Sent: Thursday, August 24, 2006 6:50:39 PM
Subject: Re: [TS-520_820_530_830] Station Pics

Sorry Reuben, but for some reason or other the station pics I can't reach. In fact any of the archives I can't seem to get access to. It just comes up a yellow screen sys yahoo in red letters and has a white square box in the middle.

I went looking for save the transformer this morning, and all I got was that. Your pics the same way. But I definitely like your 360 page. The letters really stand off well in the background on the radio gear. yours got a little more work done than mine. you go by name and I go by call.

Hey you on the air yet? I keep remebering to ask you but for some reason or other I don't seem to recall an answer. That's my memory for you.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running

soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9028. Re: [TS-520_820_530_830] Shelf Life of Caig DeoxIT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:48:10 UTC
From: John Harp
Topic: 9003 Message: 9028

Yeah, It's like crazy gluie that way. I found my bottle of Elmers glue all did that too. Turned yellow and it won't pass thru the opening.

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9029. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:47:34 UTC
From: Ruben Echevarria
Topic: 8948 Message: 9029

Ok John, I was wondering what the problem could be. I went right in....
Either way I emailed them direct to you......73

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo.com>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 7:31:26 PM
Subject: Re: [TS-520_820_530_830] Station Pics

OK, Reuben. It did the same thing to me again. So I turned off the Norton Internet Security for 5 minutes and closed the web page, upon reopening I could see the pics for the first time. Now I think I know why I haven't been able to reach into the archives also. Thank You Reuben.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: John this is the link to the photos.....

http://ph.groups. yahoo.com/ group/TS- 520_820_530_ 830/photos/ browse/1ac2

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 6:50:39 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

Sorry Reuben, but for some reason or other the station pics I can't reach. In fact any of the archives I can't seem to get access to. It just comes up a yellow screen sys yahoo in red letters and has a white square box in the middle.

I went looking for save the transformer this morning, and all I got was that. Your pics the same way. But I definitely like your 360 page. The letters really stand off well in the background on the radio gear. yours got a little more work done than mine. you go by name and I go by call.

Hey you on the air yet? I keep remebering to ask you but for some reason or other I don't seem to recall an answer. That's my memory for you.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9030. Re: [TS-520_820_530_830] Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-24 23:56:36 UTC
From: Ken Winterling
Topic: 9016 Message: 9030

I use the Shure 404C on my '520SE.

Ken, WA2LBI

On 8/24/06, John Harp <ka3dpw@...> wrote:
> I asked the same question to my elmer at one time when he had a 520SE. He said a high impedance mic. Like a crystal mic. In fact it came up again in conversation a couple of weeks ago.
>
> max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
> >
> > Hi to the group,
> > I have a TS-520S and am looking for suggestions on hand mics that
> > would be good to use with this rig? What type of mic element,
> > impedence (high I would think), maybe a make and model # to search
> > for, etc. Thanks for reading and any suggestions. cheers, kg6brg.
> > scott.
> >
> If you don't mind the weight, go for the Astatic D104M6B. Great audio
> out of these babies.
>

9031. TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 00:10:51 UTC
From: mikefr24
Topic: 9031 Message: 9031

Hey N9WB,

I built the 100W light bulb tester and followed your instructions. With the SG switch off the light bulb was pretty dim, then I turned on the heater and the light was bright and slowly faded to dim (like it was).

When I turn SG on, the Light is dim. When I turn on the heater, The light is a bit brighter for a second and then goes dim. Over about 10 seconds the light slowly grows brighter and brighter until its fairly bright and I can hear a slight humming in the rig. i immediatly turned off the rig and here I am now.

I tested the 10 Ohm resistors on the Final board (I found two big resistors 10 Ohm from the markings) and they both read ok.

I pulled out my two final tubes and examined them. One looks ok and it has a black burn mark on one side of it on the inside of the glass casing. Normal??? The other one looks bad, There is a big hole inside burned in the metal plate covering and the glass casing in that same area looks like a melted sink hole. It was hot enough to melt the outer glass covering. I take it this is my problem tube?

The tube number reads GE Electronics 6146B/8298A. This rig was bought used in 1990 by my friend and I bought it last week from him. My friend told me he never changed the tubes or had any trouble with the radio. He did not know what the original owner did.

I am clueless about tubes so I read the 6146 tube faq in your files area. Pretty interesting. I find it strange that I have the 6146B tubes and not the 6146A or 6146W tubes. Do I need to buy a set of 6146B tubes off ebay?

Thanks,
Mike KC8QNO

9032. Re: 2.8KHZ Inrad filter for TS-530S -- TS-830 VBT Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 01:24:23 UTC
From: Larry Shorthill
Topic: 8954 Message: 9032

Walt and others,

Rick Measures has a calibration method for moving the VBT oscillator frequency from its nominal fixed calibration point to a frequency +/- 150 Hz from that point to maximize the effective bandwidth through the 8.83MHz and 455KHz filters. It's easy to find on his website so I won't link to it here, but has anyone done this calibration? What do you think of it? What you are doing is moving the VBT oscillator off nominal frequency to center the filter skirts with respect to each other when VBT is centered. The reasoning is that the filters have a center Freq spec of a say +/-150 Hz and since they aren't matched for consistent shift anyway, this method just centers everything up.

I did it according to his instructions and opened up the effective bandwidth of my stock filters by about 150 Hz (calibration was initially off nominal by 56 Hz high and by the time I found the sweet spot the VBT osc had been tuned down about 85Hz below nominal). I would think that with the addition of the 8.83 MHz Inrad filter, this cal procedure would need to be done again. Anyway, I just wanted to know if anyone had performed his technique. I believe the same procedure can be done on the TS-930 and virtually any other dual conversion transceiver that implements Kenwood style VBT. By the way, I annotated the frequency that I set the VBT oscillator onto the copper strap on the transformer with a Sharpie, so you see it when looking into the uncovered rig. I noted that it was set according to Measure's technique and it's really visible if you are doing the VBT cal adjustment from the top. Never hurts to leave a documentation trail behind you.

Cheers
Larry, KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Most of these rigs roll off at 400 Hz. As a matter of fact they are 6 dB down at 400 Hz.
>
> The audio gets much warmer and pleasant if we can move this 6 dB point down to say, 200 Hz. Now, we can do this by moving the carrier point a bit closer to the filter bandpass but this cuts a few hundred Hz from the top end and makes it sound limited and reduces articulation. This lost 200 Hz makes more difference than you would think. EQ boost at the top end will not fix this because the filter will no longer pass the lost 200 Hz. There is another issue of the top of the filter bandpass having ripple in some of these stock

filters. This is why you can change identical stock filters and have a slightly different sound..
>
> By adding the 2.8 kHz model 88 Inrad filter, at least to my TS-820, I gained 200 Hz at the low end and gained an additional 200 Hz at the top end over the original set up. Yes more bandwidth, but it is important how you position it.
>
> With the Model 88 filter, interference to adjacent frequencies actually reduces because the skirt ratio is increased so while the flat bandwidth is a bit wider, the stuff that is above the bandpass that causes the interference is further suppressed than the original filter.
>
> If you are a person that does not hate cell phone audio so long as you can understand it, and is satisfied listening to music through a small cone, this is not for you.
>
> But if you prefer the distortion from a blues guitar that is generated by an overdriven vintage tube amp over that which was generated with a fuzz box, If you prefer the sound of a harp (harmonica) played through a vintage Astatic JT-30 over one using a Shure 58 , and like to hear the air switching through a sax or a cornet, You gotta have one.
>
> For those who are not as radical as those above, it still makes the sound more "open".
>
> Now you olde guys that have hearing problems, if you can still hear up to 4 kHz it might help you.
>
> BTW I am 57
>
> There is a limit on how close you can place the carrier point to the filter bandpass. The filter bandpass on filter rigs is part of the carrier suppression. If you get too close you start loosing carrier suppression. That is why I said down to 200 Hz instead of lower. The digital synthesized rigs do not have this problem as much. I can explain that more later.
>
> ESSB is the extreme sport version of what we are doing. But with what we are doing, we do not have the bandwidth issues to deal with.
>
> Some people like to jump out of perfectly good airplanes. I like to fly perfectly good airplanes and get beck to earth by landing them.
>
> In all fairness to the pilots, I don't have a pilots license. I have flown quite a bit in friends planes wit them beside me. I love it.
>

> I have two dreams in my life. One is to own a plane. The other is to be a Ham Radio Operator.
>
> I have realized one of my dreams.
> I will never realize the other.
> But one out of two isn't bad.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: John Harp
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, August 24, 2006 10:29 AM
> Subject: Re: [TS-520_820_530_830] Re: 2.8KHZ Inrad filter for TS-530S
>
>
> OK so what is aimed for by the other person is just a little more band width and thus a better sound results? is that I am to understand?
>
> Rick May <kc0hh@...> wrote: Hi John,
>
> The answer to your question is audio fidelity. Plus, if you use a spectrum analyzer to see what your total passband is on your receiver that has both first and second I.F. filters, you will be surprised to see that it is narrower than either filter value. I.E., If you have a pair of 2.4khz filters your total passband will be approx. 2.2khz. Your 830S manual states total passband is 2.4 khz and if you look in the schematic you will see it has a 2.7 in the 8.83 and a 2.9 in the 455 I.F respectively...
>
> 73' Rick KC0HH
> Lamar, Colorado
>

9033. Re: [TS-520_820_530_830] Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 04:06:59 UTC
From: n9wb
Topic: 9016 Message: 9033

Get any hand mike that you like. Wire the plug for your Kenwood. Replace the element with a Heil HC-5. That will be about as good as it gets with a hand mike. Heil has a handimike that is a miniature MC-50 or 60 type mike. A HC-5 can be placed in it. Cobra made a simulated wood grain hand mike that was gorgeous and had a good cord. It sounded awful. An Hc-5 would fix it right up.

The 520 works best with a high Z mike. 10 K to 50 K. Too low for an uamplified D-104 desk mike.

This would be a good topic for our KenwoodMics group. We shure could use some traffic. (shameful hint)

It is a sister group to this one.

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 3:08 PM
Subject: [TS-520_820_530_830] Re: hand mic question

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hi to the group,
> I have a TS-520S and am looking for suggestions on hand mics that
> would be good to use with this rig? What type of mic element,
> impedence (high I would think), maybe a make and model # to search
> for, etc. Thanks for reading and any suggestions. cheers, kg6brg.
> scott.
>
If you don't mind the weight, go for the Astatic D104M6B. Great audio
out of these babies.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

9034. Re: hand mic question - here's some answers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 03:46:09 UTC
From: Ellen R
Topic: 9016 Message: 9034

HI Scott,

I'm one of those weirdos, who prefers trhe ergonomics of hand mics, to desk mics. I did a little testing of one for the group, in my TS-820, a few months ago.

Your 520S will need a high impedance mic of around 50K ohms. If you don't know where to get one, you can get it from where I got mine: Ken's Electronics. Here's their URL:

http://www.kenselectronics.com/lists/mics.htm#Amateur

Go halfway down the page, to where it says: "Microphones for Amateur Radios." You will find a listing for a mic for the TS-520S, for about $29. Realize this, Ken is a recycler of sorts, so you may find that the mic case is used (mine is). But, I have no complaints with mine. I get decent audio reports with it.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hi to the group,
> I have a TS-520S and am looking for suggestions on hand mics that
> would be good to use with this rig? What type of mic element,
> impedence (high I would think), maybe a make and model # to search
> for, etc. Thanks for reading and any suggestions. cheers, kg6brg.
> scott.
>

9035. Re: TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 04:01:00 UTC
From: Ellen R
Topic: 9031 Message: 9035

Hi Mike,

The 6146A really isn't used for radios like the Kenwood Hybrids. As for the 6146B tubes - yeah, you could use them. The only places you can get them are maybe on e-bay, Nebraska Surplus, or one of the group members. They are scarce (almost as scarce as the original 2001B tubes that these rigs came with), and very pricey. Most of us use the 6146W nowadays. It is still pretty available, and if you buy RF Parts' Phillips/JAN 6146Ws, they are essentially the same as the good old 6146B, and are probably more durable, since they are milspec tubes. I installed (and neutralized) a set in my TS-820 a few months back, and they work great. I get 100 to 115 watts of output power out of my 820 with these tubes (dpending upon the band I'm on).

One word of warning - DO NOT get the chinese 6146Ws. I (and a few other group members) made the mistake of trying out these tubes, to our sorrow. When I fired up the heaters. The Chinese 6146Ws (which I paid $58 for) flashed over, and took out resistors in my high voltage board, and finals board, giving me the opportunity to make repairs. Now I'm stuck with a set of tubes that I can't use.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> Hey N9WB,
>
> I built the 100W light bulb tester and followed your instructions.
> With the SG switch off the light bulb was pretty dim, then I turned
on
> the heater and the light was bright and slowly faded to dim (like it
> was).
>
> When I turn SG on, the Light is dim. When I turn on the heater, The
> light is a bit brighter for a second and then goes dim. Over about
10
> seconds the light slowly grows brighter and brighter until its
fairly
> bright and I can hear a slight humming in the rig. i immediatly
> turned off the rig and here I am now.
>
> I tested the 10 Ohm resistors on the Final board (I found two big
> resistors 10 Ohm from the markings) and they both read ok.
>

> I pulled out my two final tubes and examined them. One looks ok and
> it has a black burn mark on one side of it on the inside of the
glass
> casing. Normal??? The other one looks bad, There is a big hole
> inside burned in the metal plate covering and the glass casing in
that
> same area looks like a melted sink hole. It was hot enough to melt
> the outer glass covering. I take it this is my problem tube?
>
> The tube number reads GE Electronics 6146B/8298A. This rig was
bought
> used in 1990 by my friend and I bought it last week from him. My
> friend told me he never changed the tubes or had any trouble with
the
> radio. He did not know what the original owner did.
>
> I am clueless about tubes so I read the 6146 tube faq in your files
> area. Pretty interesting. I find it strange that I have the 6146B
> tubes and not the 6146A or 6146W tubes. Do I need to buy a set of
> 6146B tubes off ebay?
>
> Thanks,
> Mike KC8QNO
>

9036. Re: TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 09:00:36 UTC
From: mikefr24
Topic: 9031 Message: 9036

Ok. I will keep a lookout for a new set of tubes. What is tube "neutralizing" and how do I do it?

I also notice that tubes can be bought as a matched set. IS this something I need to make sure I get?

Mike

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Mike,
>
> The 6146A really isn't used for radios like the Kenwood Hybrids. As
> for the 6146B tubes - yeah, you could use them. The only places you
> can get them are maybe on e-bay, Nebraska Surplus, or one of the
> group members. They are scarce (almost as scarce as the original
> 2001B tubes that these rigs came with), and very pricey. Most of us
> use the 6146W nowadays. It is still pretty available, and if you buy
> RF Parts' Phillips/JAN 6146Ws, they are essentially the same as the
> good old 6146B, and are probably more durable, since they are milspec
> tubes. I installed (and neutralized) a set in my TS-820 a few months
> back, and they work great. I get 100 to 115 watts of output power
> out of my 820 with these tubes (dpending upon the band I'm on).
>
> One word of warning - DO NOT get the chinese 6146Ws. I (and a few
> other group members) made the mistake of trying out these tubes, to
> our sorrow. When I fired up the heaters. The Chinese 6146Ws (which
> I paid $58 for) flashed over, and took out resistors in my high
> voltage board, and finals board, giving me the opportunity to make
> repairs. Now I'm stuck with a set of tubes that I can't use.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> > Hey N9WB,
> >
> > I built the 100W light bulb tester and followed your instructions.
> > With the SG switch off the light bulb was pretty dim, then I turned
> on
> > the heater and the light was bright and slowly faded to dim (like it
> > was).
> >

> > When I turn SG on, the Light is dim. When I turn on the heater, The
> > light is a bit brighter for a second and then goes dim. Over about
> 10
> > seconds the light slowly grows brighter and brighter until its
> fairly
> > bright and I can hear a slight humming in the rig. i immediatly
> > turned off the rig and here I am now.
> >
> > I tested the 10 Ohm resistors on the Final board (I found two big
> > resistors 10 Ohm from the markings) and they both read ok.
> >
> > I pulled out my two final tubes and examined them. One looks ok and
> > it has a black burn mark on one side of it on the inside of the
> glass
> > casing. Normal??? The other one looks bad, There is a big hole
> > inside burned in the metal plate covering and the glass casing in
> that
> > same area looks like a melted sink hole. It was hot enough to melt
> > the outer glass covering. I take it this is my problem tube?
> >
> > The tube number reads GE Electronics 6146B/8298A. This rig was
> bought
> > used in 1990 by my friend and I bought it last week from him. My
> > friend told me he never changed the tubes or had any trouble with
> the
> > radio. He did not know what the original owner did.
> >
> > I am clueless about tubes so I read the 6146 tube faq in your files
> > area. Pretty interesting. I find it strange that I have the 6146B
> > tubes and not the 6146A or 6146W tubes. Do I need to buy a set of
> > 6146B tubes off ebay?
> >
> > Thanks,
> > Mike KC8QNO
> >
>

9037. Re: [TS-520_820_530_830] TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 11:29:37 UTC
From: n9wb
Topic: 9031 Message: 9037

I am betting that the bad looking tube is the problem. the black spot on the other is normal. It occurs when they flash it to remove the oxygen at manufacture.
Vy 73, Walt N9WB

----- Original Message -----
From: mikefr24
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 7:10 PM
Subject: [TS-520_820_530_830] TS-820S Results from the blow fuses

Hey N9WB,

I built the 100W light bulb tester and followed your instructions. With the SG switch off the light bulb was pretty dim, then I turned on the heater and the light was bright and slowly faded to dim (like it was).

When I turn SG on, the Light is dim. When I turn on the heater, The light is a bit brighter for a second and then goes dim. Over about 10 seconds the light slowly grows brighter and brighter until its fairly bright and I can hear a slight humming in the rig. i immediatly turned off the rig and here I am now.

I tested the 10 Ohm resistors on the Final board (I found two big resistors 10 Ohm from the markings) and they both read ok.

I pulled out my two final tubes and examined them. One looks ok and it has a black burn mark on one side of it on the inside of the glass casing. Normal??? The other one looks bad, There is a big hole inside burned in the metal plate covering and the glass casing in that same area looks like a melted sink hole. It was hot enough to melt the outer glass covering. I take it this is my problem tube?

The tube number reads GE Electronics 6146B/8298A. This rig was bought used in 1990 by my friend and I bought it last week from him. My friend told me he never changed the tubes or had any trouble with the radio. He did not know what the original owner did.

I am clueless about tubes so I read the 6146 tube faq in your files area. Pretty interesting. I find it strange that I have the 6146B tubes and not the 6146A or 6146W tubes. Do I need to buy a set of 6146B tubes off ebay?

Thanks,
Mike KC8QNO

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

9038. Re: [TS-520_820_530_830] hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 11:10:08 UTC
From: Bob Baxter
Topic: 9016 Message: 9038

--- scott <swduncan57@...> wrote:

> Hi to the group,
> I have a TS-520S and am looking for suggestions on
> hand mics that
> would be good to use with this rig?

I got one from Ken's Electronics at
http://www.kenselectronics.com/lists/mics.htm#Amateur
that works just fine.

Bob Baxter aa7eq

9039. Re: [TS-520_820_530_830] TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 11:13:21 UTC
From: Tom
Topic: 9031 Message: 9039

Due to the age of the TS-820, I would replace the high voltage filter capacitors - that will cause fuse blowing problems somewhat intermittent at the outset of going bad.

n9wb <n9wb@...> wrote: I am betting that the bad looking tube is the problem. the black spot on the other is normal. It occurs when they flash it to remove the oxygen at manufacture.
Vy 73, Walt N9WB

----- Original Message -----
From: mikefr24
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 7:10 PM
Subject: [TS-520_820_530_830] TS-820S Results from the blow fuses

Hey N9WB,

I built the 100W light bulb tester and followed your instructions. With the SG switch off the light bulb was pretty dim, then I turned on the heater and the light was bright and slowly faded to dim (like it was).

When I turn SG on, the Light is dim. When I turn on the heater, The light is a bit brighter for a second and then goes dim. Over about 10 seconds the light slowly grows brighter and brighter until its fairly bright and I can hear a slight humming in the rig. i immediatly turned off the rig and here I am now.

I tested the 10 Ohm resistors on the Final board (I found two big resistors 10 Ohm from the markings) and they both read ok.

I pulled out my two final tubes and examined them. One looks ok and it has a black burn mark on one side of it on the inside of the glass casing. Normal??? The other one looks bad, There is a big hole inside burned in the metal plate covering and the glass casing in that same area looks like a melted sink hole. It was hot enough to melt the outer glass covering. I take it this is my problem tube?

The tube number reads GE Electronics 6146B/8298A. This rig was bought used in 1990 by my friend and I bought it last week from him. My friend told me he never changed the tubes or had any trouble with the radio. He did not know what the original owner did.

I am clueless about tubes so I read the 6146 tube faq in your files area. Pretty interesting. I find it strange that I have the 6146B tubes and not the 6146A or 6146W tubes. Do I need to buy a set of 6146B tubes off ebay?

Thanks,
Mike KC8QNO

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9040. Re: [TS-520_820_530_830] MC50 Mic problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 12:24:42 UTC
From: n9wb
Topic: 9022 Message: 9040

Jack:
I have the MC-50 manual posted in the Files section of the KenwoodMics group.
You will note that the white wire connects to a solder pad on the side of the element. The black wire connects the same way to a solder pad on the opposite side.
If the solder pad is intact opposite where the white wire attaches to the element, that is where the black wire goes. The white wire from the mike would connect to the white wire to the element.

I suspect that the solder pad is gone and the very thin copper enameled wire going to the diaphragm is broken. If you can find it and attach to it some way you might be able to save the element. Otherwise, it will need to be replaced. Some of the tape recorder mikes of the 70's and 80's had this element in them. Some of the Diesel CB noise canceling hand mikes sold at truck stops had this element. Really, this element does not sound all that good. A Heil HC-5 is a very improved replacement.

Vy 73, Walt N9WB

----- Original Message -----
From: Jack
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 4:59 PM
Subject: [TS-520_820_530_830] MC50 Mic problem

Hi Group. Great things are going on here. Here's my latest problem.
I have an MC50 mic that isn't working so I decided to remove the element
and see if there was anything wrong. There is. After removing the
cage, I carefully pulled the element out and found that it is not
wired to the mic base at all. I have a black and a white wire coming
from the mic base and only have a lose white wire on the mic element.
Can anyone describe to me or send me a pic of the mic element and how
it should be wired to the mic?

Thanks in advance ---- Jack

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06

[Non-text portions of this message have been removed]

9041. Fw: New file uploaded to KenwoodMics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 12:38:57 UTC
From: n9wb
Topic: 9041 Message: 9041

```
----- Original Message -----
From: "Yahoo! Groups Notification" <notify@yahoogroups.com>
To: <KenwoodMics-owner@yahoogroups.com>
Sent: Friday, August 25, 2006 5:52 AM
Subject: New file uploaded to KenwoodMics

>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of your KenwoodMics
> group.
>
> File : /MC_50_Instruction_manual.pdf
> Uploaded by : n9wb <n9wb@...>
> Description : MC 50 Manual and diagram
>
> You can access the file at the URL:
>
http://groups.yahoo.com/group/KenwoodMics/files/MC_50_Instruction_manual.pdf
>
> Your group is currently configured to send you email
> notification whenever a member uploads a file. To turn off
> notification, visit:
> http://groups.yahoo.com/group/KenwoodMics/join
>
> Thank you for choosing Yahoo! Groups as your email group
> service for the KenwoodMics group.
>
> Regards,
>
> Yahoo! Groups Customer Care
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>
>
>
>
>
>
>
>
>
>
```

>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date: 8/23/06
>
>

9042. Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 13:02:27 UTC
From: scott
Topic: 9016 Message: 9042

>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, August 24, 2006 3:08 PM
> Subject: [TS-520_820_530_830] Re: hand mic question
>

> Thanks to all for the mic suggestions, and Walt, would the heil
element you recommend fit inside a run of the mill type hand mic
case, something on the size of a cobra/uniden CB mic which are
readily available? If so, where is the best place to buy the
element? thanks again, scott kg6brg

>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date:
8/23/06
>
>
> [Non-text portions of this message have been removed]
>

9043. Re: [TS-520_820_530_830] Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 13:52:49 UTC
From: Max Harelik
Topic: 9016 Message: 9043

"The 520 works best with a high Z mike. 10 K to 50 K. Too low for an uamplified D-104 desk mike." <snip>

FWIW: I'm not sure of audio input differences between the 520 and 530, but I use a classic D-104 with my 530 and get typical Kenwood "great audio" reports on the air.

73,
Max, K5OVW

9044. Re: TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 14:18:18 UTC
From: Ellen R
Topic: 9031 Message: 9044

Hi again Mike

Tube Neutralizing is done to balance out the load between the two final tubes. They run in parallel (basically Class A), but neutralizing helps the tubes to last longer. Also, in some cases, if your finals are not neutralized, you can have problems with spurious emissions, and in extreme cases, the finals could even go into parasitic oscillations.

I assume that your manual for the 820S is identical (or at the very least similar) to the manual for my TS-820 (the first year version fo the 820 series). The manual has the procedure for neutralizing the finals. Basically, what you are doing, is nulling out the noise from the finals. You're taking a signal sample (via a T-connector) off of the SO-239. If you don't have an RF probe and volt meter to do it as the manual calls for, you can take your null readings 2 other ways:

1. Use an RF probe, and an oscilliscope. Then adjust the varicap for the finals, for minimum readout on the scope.
2. If you have a very sensitive QRP wattmeter (and by sensitive, I mean that it will read decently down below 5mW of power), you can use it to adjust for the null. You hook it up in-line with your TS-820S, and a dummy load, and make your null readings (you may have to sweep the finals varicap back and forth through the null point, to get the center setting point for the cap). This is the method I used (I have an OHR QRP wattmeter that will read as low as 1mW). The procedure went well, and my rig is working fine with the new finals (well, actually I put them in about 4 months ago).

A word of caution: You have to leave the cover on, over the finals, and adjust them varicap through a hole in the cover. A plastic tuning/adjustment tool is too wimpy to do the job (the varicap is kind of stiff in its movement). You will have to use a regular, flat blade screwdriver. BUT, you will need to insulate the metal shaft (either with a piece of shrinkwrap, or a thick layer of electrical tape). Because, you will be working around 800V from the finals. As an additional safety precaution, you might want to do like a lot of old timers use to do in the past, when working on powered up tube equipment, keep one hand in your pocket, and use the other hand for fiddling in the radio. This helps to prevent the creation of an electrical circuit from on hand to the other (which would allow current to flow through your heart [which of course can be fatal]) .

Because the screwdriver has a metal shaft, you will be dealing with it having an affect on the varicap capacitance. So, you will need to double check your null readings, after you remove the screwdriver,

and then reinsert the screwdriver, and readjust the varicap, so that
the null occurs, with the screwdriver removed.

73 & I hope this gives you an idea of the procedure,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
>
> Ok. I will keep a lookout for a new set of tubes. What is tube
> "neutralizing" and how do I do it?
>
> I also notice that tubes can be bought as a matched set. IS this
> something I need to make sure I get?
>
> Mike
>
>
>
>
>
>
>
>
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Mike,
> >
> > The 6146A really isn't used for radios like the Kenwood Hybrids.
As
> > for the 6146B tubes - yeah, you could use them. The only places
you
> > can get them are maybe on e-bay, Nebraska Surplus, or one of the
> > group members. They are scarce (almost as scarce as the original
> > 2001B tubes that these rigs came with), and very pricey. Most of
us
> > use the 6146W nowadays. It is still pretty available, and if you
buy
> > RF Parts' Phillips/JAN 6146Ws, they are essentially the same as
the
> > good old 6146B, and are probably more durable, since they are
milspec
> > tubes. I installed (and neutralized) a set in my TS-820 a few

months
> > back, and they work great. I get 100 to 115 watts of output
power
> > out of my 820 with these tubes (dpending upon the band I'm on).
> >
> > One word of warning - DO NOT get the chinese 6146Ws. I (and a
few
> > other group members) made the mistake of trying out these tubes,
to
> > our sorrow. When I fired up the heaters. The Chinese 6146Ws
(which
> > I paid $58 for) flashed over, and took out resistors in my high
> > voltage board, and finals board, giving me the opportunity to
make
> > repairs. Now I'm stuck with a set of tubes that I can't use.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > wrote:
> > >
> > > Hey N9WB,
> > >
> > > I built the 100W light bulb tester and followed your
instructions.
> > > With the SG switch off the light bulb was pretty dim, then I
turned
> > on
> > > the heater and the light was bright and slowly faded to dim
(like it
> > > was).
> > >
> > > When I turn SG on, the Light is dim. When I turn on the
heater, The
> > > light is a bit brighter for a second and then goes dim. Over
about
> > 10
> > > seconds the light slowly grows brighter and brighter until its
> > fairly
> > > bright and I can hear a slight humming in the rig. i immediatly
> > > turned off the rig and here I am now.
> > >
> > > I tested the 10 Ohm resistors on the Final board (I found two
big
> > > resistors 10 Ohm from the markings) and they both read ok.
> > >
> > > I pulled out my two final tubes and examined them. One looks
ok and
> > > it has a black burn mark on one side of it on the inside of the

> > glass
> > > casing. Normal??? The other one looks bad, There is a big
hole
> > > inside burned in the metal plate covering and the glass casing
in
> > that
> > > same area looks like a melted sink hole. It was hot enough to
melt
> > > the outer glass covering. I take it this is my problem tube?
> > >
> > > The tube number reads GE Electronics 6146B/8298A. This rig was
> > bought
> > > used in 1990 by my friend and I bought it last week from him.
My
> > > friend told me he never changed the tubes or had any trouble
with
> > the
> > > radio. He did not know what the original owner did.
> > >
> > > I am clueless about tubes so I read the 6146 tube faq in your
files
> > > area. Pretty interesting. I find it strange that I have the
6146B
> > > tubes and not the 6146A or 6146W tubes. Do I need to buy a set
of
> > > 6146B tubes off ebay?
> > >
> > > Thanks,
> > > Mike KC8QNO
> > >
> >
>

9045. Is it Possible to clean the mode switch contacts on my 830S ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 15:55:17 UTC
From: compdsgnr
Topic: 9045 Message: 9045

Has anyone had success cleaning the contacts on the 830S mode switch ?

Since the contacts are hidden by the palstic shell they are not
exposed, but there is a small gap between wafer sections. Will simply
flooding the switch with spray work ?

Tnx

Tom / W1PKX

9046. Re: Is it Possible to clean the mode switch contacts on my 830S ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 16:06:46 UTC
From: max_ve3tmt
Topic: 9045 Message: 9046

--- In TS-520_820_530_830@yahoogroups.com, "compdsgnr" <baillio@...>
wrote:
>
> Has anyone had success cleaning the contacts on the 830S mode switch ?
>
> Since the contacts are hidden by the palstic shell they are not
> exposed, but there is a small gap between wafer sections. Will simply
> flooding the switch with spray work ?
>
>
> Tnx
>
> Tom / W1PKX

Tom,

I don't see why not. I use ProLabs PL-100. It is a spray lube with
dielectric properties. It cleans switches like you wouldn't believe
and lubes the mechanical part at the same time.

Max VE3TMT

9047. Re: TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 16:07:19 UTC
From: mikefr24
Topic: 9031 Message: 9047

Thanks for the info and help. I have an oscilliscope so I will use
that method to perform the repair. There is a swap in my area this
Sunday and I am going tube hunting for the first time!!

Is it correct to assume that if I am balancing the load between the
two final tubes in the radio, then buying matched sets of tubes is
not really important?

Thanks,

Mike

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi again Mike
>
> Tube Neutralizing is done to balance out the load between the two
> final tubes. They run in parallel (basically Class A), but
> neutralizing helps the tubes to last longer. Also, in some cases,
if
> your finals are not neutralized, you can have problems with
spurious
> emissions, and in extreme cases, the finals could even go into
> parasitic oscillations.
>
> I assume that your manual for the 820S is identical (or at the
very
> least similar) to the manual for my TS-820 (the first year version
fo
> the 820 series). The manual has the procedure for neutralizing
the
> finals. Basically, what you are doing, is nulling out the noise
from
> the finals. You're taking a signal sample (via a T-connector) off
of
> the SO-239. If you don't have an RF probe and volt meter to do it
as
> the manual calls for, you can take your null readings 2 other ways:
>
> 1. Use an RF probe, and an oscilliscope. Then adjust the varicap
> for the finals, for minimum readout on the scope.
> 2. If you have a very sensitive QRP wattmeter (and by sensitive,
I
> mean that it will read decently down below 5mW of power), you can
use

> it to adjust for the null. You hook it up in-line with your TS-
820S,
> and a dummy load, and make your null readings (you may have to
sweep
> the finals varicap back and forth through the null point, to get
the
> center setting point for the cap). This is the method I used (I
have
> an OHR QRP wattmeter that will read as low as 1mW). The procedure
> went well, and my rig is working fine with the new finals (well,
> actually I put them in about 4 months ago).
>
> A word of caution: You have to leave the cover on, over the
finals,
> and adjust them varicap through a hole in the cover. A plastic
> tuning/adjustment tool is too wimpy to do the job (the varicap is
> kind of stiff in its movement). You will have to use a regular,
flat
> blade screwdriver. BUT, you will need to insulate the metal shaft
> (either with a piece of shrinkwrap, or a thick layer of electrical
> tape). Because, you will be working around 800V from the finals.
As
> an additional safety precaution, you might want to do like a lot
of
> old timers use to do in the past, when working on powered up tube
> equipment, keep one hand in your pocket, and use the other hand
for
> fiddling in the radio. This helps to prevent the creation of an
> electrical circuit from on hand to the other (which would allow
> current to flow through your heart [which of course can be
fatal]) .
>
> Because the screwdriver has a metal shaft, you will be dealing
with
> it having an affect on the varicap capacitance. So, you will need
to
> double check your null readings, after you remove the screwdriver,
> and then reinsert the screwdriver, and readjust the varicap, so
that
> the null occurs, with the screwdriver removed.
>
> 73 & I hope this gives you an idea of the procedure,
> Ellen - AF9J
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> >
> > Ok. I will keep a lookout for a new set of tubes. What is tube

> > "neutralizing" and how do I do it?
> >
> > I also notice that tubes can be bought as a matched set. IS this
> > something I need to make sure I get?
> >
> > Mike
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Mike,
> > >
> > > The 6146A really isn't used for radios like the Kenwood
Hybrids.
> As
> > > for the 6146B tubes - yeah, you could use them. The only
places
> you
> > > can get them are maybe on e-bay, Nebraska Surplus, or one of
the
> > > group members. They are scarce (almost as scarce as the
original
> > > 2001B tubes that these rigs came with), and very pricey. Most
of
> us
> > > use the 6146W nowadays. It is still pretty available, and if
you
> buy
> > > RF Parts' Phillips/JAN 6146Ws, they are essentially the same
as
> the
> > > good old 6146B, and are probably more durable, since they are
> milspec
> > > tubes. I installed (and neutralized) a set in my TS-820 a few
> months
> > > back, and they work great. I get 100 to 115 watts of output
> power

> > > out of my 820 with these tubes (dpending upon the band I'm on).
> > >
> > > One word of warning - DO NOT get the chinese 6146Ws. I (and a
> few
> > > other group members) made the mistake of trying out these
tubes,
> to
> > > our sorrow. When I fired up the heaters. The Chinese 6146Ws
> (which
> > > I paid $58 for) flashed over, and took out resistors in my
high
> > > voltage board, and finals board, giving me the opportunity to
> make
> > > repairs. Now I'm stuck with a set of tubes that I can't use.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24"
<mikefr24@>
> > > wrote:
> > > >
> > > > Hey N9WB,
> > > >
> > > > I built the 100W light bulb tester and followed your
> instructions.
> > > > With the SG switch off the light bulb was pretty dim, then I
> turned
> > > on
> > > > the heater and the light was bright and slowly faded to dim
> (like it
> > > > was).
> > > >
> > > > When I turn SG on, the Light is dim. When I turn on the
> heater, The
> > > > light is a bit brighter for a second and then goes dim.
Over
> about
> > > 10
> > > > seconds the light slowly grows brighter and brighter until
its
> > > fairly
> > > > bright and I can hear a slight humming in the rig. i
immediatly
> > > > turned off the rig and here I am now.
> > > >
> > > > I tested the 10 Ohm resistors on the Final board (I found
two
> big
> > > > resistors 10 Ohm from the markings) and they both read ok.

> > > >
> > > > I pulled out my two final tubes and examined them. One
looks
> ok and
> > > > it has a black burn mark on one side of it on the inside of
the
> > > glass
> > > > casing. Normal??? The other one looks bad, There is a big
> hole
> > > > inside burned in the metal plate covering and the glass
casing
> in
> > > that
> > > > same area looks like a melted sink hole. It was hot enough
to
> melt
> > > > the outer glass covering. I take it this is my problem
tube?
> > > >
> > > > The tube number reads GE Electronics 6146B/8298A. This rig
was
> > > bought
> > > > used in 1990 by my friend and I bought it last week from
him.
> My
> > > > friend told me he never changed the tubes or had any trouble
> with
> > > the
> > > > radio. He did not know what the original owner did.
> > > >
> > > > I am clueless about tubes so I read the 6146 tube faq in
your
> files
> > > > area. Pretty interesting. I find it strange that I have
the
> 6146B
> > > > tubes and not the 6146A or 6146W tubes. Do I need to buy a
set
> of
> > > > 6146B tubes off ebay?
> > > >
> > > > Thanks,
> > > > Mike KC8QNO
> > > >
> > >
> >
>

9048. Re: [TS-520_820_530_830] Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:18:48 UTC
From: n9wb
Topic: 9016 Message: 9048

Scott:

It will fit in almost anything. Go to this link, it can be purchased here.

http://www.heilsound.com/

BTW, this a really cool site to browse with nice graphics

Click on Amateur Radio. On the left, scroll down to CONNECTORS & MISC.

Click on HC-4 / HC-5 elements

Although these spec at 1000 ohms, they will work fine with your rig. It is advantageous to bridge a low impedance element with a higher impedance if it has enough output. this element was designed for the Kenwood 520 / 820 series.

You should also look at the HM-5 under microphones it has the HC-5 element in it.

Scott, if you or anybody else has any more comments or questions on this subject, please join and contact us on the KenwoodMics Yahoo group.

Vy 73, Walt N9WB

----- Original Message -----
From: scott
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 25, 2006 8:02 AM
Subject: [TS-520_820_530_830] Re: hand mic question

>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, August 24, 2006 3:08 PM
> Subject: [TS-520_820_530_830] Re: hand mic question
>

> Thanks to all for the mic suggestions, and Walt, would the heil
element you recommend fit inside a run of the mill type hand mic
case, something on the size of a cobra/uniden CB mic which are
readily available? If so, where is the best place to buy the
element? thanks again, scott kg6brg

>
>
>

>
>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.5/426 - Release Date:
8/23/06
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/427 - Release Date: 8/24/06

[Non-text portions of this message have been removed]

9049. Re: [TS-520_820_530_830] Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:24:12 UTC
From: n9wb
Topic: 9016 Message: 9049

The unamplified D-104 will work but has a very middy sound when loaded at 50K. Sometimes this can be desirable. The amplified D-104 interfaces this load to 1 meg across the element and is a bit more full. I have a D-104 amplifier modification posted in the Files section of the KenwoodMics group that loads the element at 10 meg ohms and makes it more full yet.

Vy 73, Walt N9WB

----- Original Message -----
From: Max Harelik
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 25, 2006 8:52 AM
Subject: Re: [TS-520_820_530_830] Re: hand mic question

"The 520 works best with a high Z mike. 10 K to 50 K. Too low for an
uamplified D-104 desk mike." <snip>

FWIW: I'm not sure of audio input differences between the 520 and 530,
but I use a classic D-104 with my 530 and get typical Kenwood "great
audio" reports on the air.

73,
Max, K5OVW

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/427 - Release Date: 8/24/06

[Non-text portions of this message have been removed]

9050. Re: [TS-520_820_530_830] Is it Possible to clean the mode switch contacts on my 830S ?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:28:02 UTC
From: n9wb
Topic: 9045 Message: 9050

Sometimes will. N9WB
----- Original Message -----
From: compdsgnr
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, August 25, 2006 10:55 AM
Subject: [TS-520_820_530_830] Is it Possible to clean the mode switch contacts on my 830S ?

Has anyone had success cleaning the contacts on the 830S mode switch ?

Since the contacts are hidden by the palstic shell they are not
exposed, but there is a small gap between wafer sections. Will simply
flooding the switch with spray work ?

Tnx

Tom / W1PKX

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/427 - Release Date: 8/24/06

[Non-text portions of this message have been removed]

9051. Re: TS-820S Results from the blow fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:11:55 UTC
From: Ellen R
Topic: 9031 Message: 9051

Hi Mike,

Some of us run our rigs without matched sets, without any problems.
So yes, you don't necessarily have to use a matched set of finals.
In my personal opinion, a matched set is easier to neutralize than an
unmatched set, which is why I use them. If you buy from places like
RF Parts, they will sell you a matched set.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> Thanks for the info and help. I have an oscilliscope so I will use
> that method to perform the repair. There is a swap in my area this
> Sunday and I am going tube hunting for the first time!!
>
> Is it correct to assume that if I am balancing the load between the
> two final tubes in the radio, then buying matched sets of tubes is
> not really important?
>
> Thanks,
>
> Mike
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi again Mike
> >
> > Tube Neutralizing is done to balance out the load between the two
> > final tubes. They run in parallel (basically Class A), but
> > neutralizing helps the tubes to last longer. Also, in some
cases,
> if
> > your finals are not neutralized, you can have problems with
> spurious
> > emissions, and in extreme cases, the finals could even go into
> > parasitic oscillations.
> >
> > I assume that your manual for the 820S is identical (or at the
> very
> > least similar) to the manual for my TS-820 (the first year

version
> fo
> > the 820 series). The manual has the procedure for neutralizing
> the
> > finals. Basically, what you are doing, is nulling out the noise
> from
> > the finals. You're taking a signal sample (via a T-connector)
off
> of
> > the SO-239. If you don't have an RF probe and volt meter to do it
> as
> > the manual calls for, you can take your null readings 2 other
ways:
> >
> > 1. Use an RF probe, and an oscilliscope. Then adjust the
varicap
> > for the finals, for minimum readout on the scope.
> > 2. If you have a very sensitive QRP wattmeter (and by sensitive,
> I
> > mean that it will read decently down below 5mW of power), you can
> use
> > it to adjust for the null. You hook it up in-line with your TS-
> 820S,
> > and a dummy load, and make your null readings (you may have to
> sweep
> > the finals varicap back and forth through the null point, to get
> the
> > center setting point for the cap). This is the method I used (I
> have
> > an OHR QRP wattmeter that will read as low as 1mW). The
procedure
> > went well, and my rig is working fine with the new finals (well,
> > actually I put them in about 4 months ago).
> >
> > A word of caution: You have to leave the cover on, over the
> finals,
> > and adjust them varicap through a hole in the cover. A plastic
> > tuning/adjustment tool is too wimpy to do the job (the varicap is
> > kind of stiff in its movement). You will have to use a regular,
> flat
> > blade screwdriver. BUT, you will need to insulate the metal
shaft
> > (either with a piece of shrinkwrap, or a thick layer of
electrical
> > tape). Because, you will be working around 800V from the
finals.
> As
> > an additional safety precaution, you might want to do like a lot
> of
> > old timers use to do in the past, when working on powered up tube

> > equipment, keep one hand in your pocket, and use the other hand
> for
> > fiddling in the radio. This helps to prevent the creation of an
> > electrical circuit from on hand to the other (which would allow
> > current to flow through your heart [which of course can be
> fatal]) .
> >
> > Because the screwdriver has a metal shaft, you will be dealing
> with
> > it having an affect on the varicap capacitance. So, you will
need
> to
> > double check your null readings, after you remove the
screwdriver,
> > and then reinsert the screwdriver, and readjust the varicap, so
> that
> > the null occurs, with the screwdriver removed.
> >
> > 73 & I hope this gives you an idea of the procedure,
> > Ellen - AF9J
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> > wrote:
> > >
> > >
> > > Ok. I will keep a lookout for a new set of tubes. What is tube
> > > "neutralizing" and how do I do it?
> > >
> > > I also notice that tubes can be bought as a matched set. IS this
> > > something I need to make sure I get?
> > >
> > > Mike
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@...m, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >

> > > > Hi Mike,
> > > >
> > > > The 6146A really isn't used for radios like the Kenwood
> Hybrids.
> > As
> > > > for the 6146B tubes - yeah, you could use them. The only
> places
> > you
> > > > can get them are maybe on e-bay, Nebraska Surplus, or one of
> the
> > > > group members. They are scarce (almost as scarce as the
> original
> > > > 2001B tubes that these rigs came with), and very pricey.
Most
> of
> > us
> > > > use the 6146W nowadays. It is still pretty available, and if
> you
> > buy
> > > > RF Parts' Phillips/JAN 6146Ws, they are essentially the same
> as
> > the
> > > > good old 6146B, and are probably more durable, since they are
> > milspec
> > > > tubes. I installed (and neutralized) a set in my TS-820 a
few
> > months
> > > > back, and they work great. I get 100 to 115 watts of output
> > power
> > > > out of my 820 with these tubes (dpending upon the band I'm
on).
> > > >
> > > > One word of warning - DO NOT get the chinese 6146Ws. I (and
a
> > few
> > > > other group members) made the mistake of trying out these
> tubes,
> > to
> > > > our sorrow. When I fired up the heaters. The Chinese 6146Ws
> > (which
> > > > I paid $58 for) flashed over, and took out resistors in my
> high
> > > > voltage board, and finals board, giving me the opportunity to
> > make
> > > > repairs. Now I'm stuck with a set of tubes that I can't use.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "mikefr24"

> <mikefr24@>
> > > > wrote:
> > > > >
> > > > > Hey N9WB,
> > > > > >
> > > > > I built the 100W light bulb tester and followed your
> > instructions.
> > > > > With the SG switch off the light bulb was pretty dim, then
I
> > turned
> > > > > on
> > > > > the heater and the light was bright and slowly faded to dim
> > (like it
> > > > > was).
> > > > > >
> > > > > When I turn SG on, the Light is dim. When I turn on the
> > heater, The
> > > > > light is a bit brighter for a second and then goes dim.
> Over
> > about
> > > > 10
> > > > > seconds the light slowly grows brighter and brighter until
> its
> > > > fairly
> > > > > bright and I can hear a slight humming in the rig. i
> immediatly
> > > > > turned off the rig and here I am now.
> > > > > >
> > > > > I tested the 10 Ohm resistors on the Final board (I found
> two
> > big
> > > > > resistors 10 Ohm from the markings) and they both read ok.
> > > > > >
> > > > > I pulled out my two final tubes and examined them. One
> looks
> > ok and
> > > > > it has a black burn mark on one side of it on the inside of
> the
> > > > glass
> > > > > casing. Normal??? The other one looks bad, There is a
big
> > hole
> > > > > inside burned in the metal plate covering and the glass
> casing
> > in
> > > > that
> > > > > same area looks like a melted sink hole. It was hot enough
> to
> > melt
> > > > > the outer glass covering. I take it this is my problem

> tube?
> > > > >
> > > > > The tube number reads GE Electronics 6146B/8298A. This rig
> was
> > > > bought
> > > > > used in 1990 by my friend and I bought it last week from
> him.
> > My
> > > > > friend told me he never changed the tubes or had any
trouble
> > with
> > > > the
> > > > > radio. He did not know what the original owner did.
> > > > > >
> > > > > I am clueless about tubes so I read the 6146 tube faq in
> your
> > files
> > > > > area. Pretty interesting. I find it strange that I have
> the
> > 6146B
> > > > > tubes and not the 6146A or 6146W tubes. Do I need to buy a
> set
> > of
> > > > > 6146B tubes off ebay?
> > > > > >
> > > > > Thanks,
> > > > > Mike KC8QNO
> > > > > >
> > > > >
> > > >
> > >
> >

9052. Re: [TS-520_820_530_830] Station Pics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:17:38 UTC
From: John Harp
Topic: 8948 Message: 9052

Yeah, every time I try to look at something, the Norton thing gets in the way. With my concentration these days I forget alot too. That's been holding me back on CW and it irks me to no end. I go for a ride and I get lost. I need to get check'd for a.d.d. and a.d.h.d. boy that sounds like a degree in something, but I forget what.

Ruben Echevarria <ka2hhb_2000@...> wrote: Ok John, I was wondering what the problem could be. I went right in....
Either way I emailed them direct to you......73

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 24, 2006 7:31:26 PM
Subject: Re: [TS-520_820_530_830] Station Pics

OK, Reuben. It did the same thing to me again. So I turned off the Norton Internet Security for 5 minutes and closed the web page, upon reopening I could see the pics for the first time. Now I think I know why I haven't been able to reach into the archives also. Thank You Reuben.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: John this is the link to the photos.....

http://ph.groups. yahoo.com/ group/TS- 520_820_530_ 830/photos/ browse/1ac2

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 6:50:39 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

Sorry Reuben, but for some reason or other the station pics I can't reach. In fact any of the archives I can't seem to get access to. It just comes up a yellow screen sys yahoo in red letters and has a white square box in the middle.

I went looking for save the transformer this morning, and all I got was that. Your pics the same way. But I definitely like your 360 page. The letters really stand off well in the background on the radio gear. yours got a little more work done than mine. you go by name

and I go by call.

Hey you on the air yet? I keep remebering to ask you but for some reason or other I don't seem to recall an answer. That's my memory for you.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
John my station pics are in this groups photos section ......

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Thursday, August 24, 2006 1:25:10 PM
Subject: Re: [TS-520_820_ 530_830] Station Pics

I like what you did with your 360 page. A definite change over what it was the other time I was down there. Now about those pics. That's where I wanna see next. hope you get running soon.

Ruben <ka2hhb_2000@ yahoo.com> wrote: KA2HHB station pics uploaded.

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9053. Re: hand mic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:47:30 UTC
From: george trinkl
Topic: 9016 Message: 9053

I had really good results with a Shure 527A hand mic. on a 520s. It is high impedance & natural sound &
needs no battery.
They are a little pricey but built like a tank & very comfortable fit to the hand. Don't get the B model as it is low impedance & won't work well with the 520S high impedance input.
I'm sure there are others that will work also but the shure is not a bad choice
73, George

9054. Re: [TS-520_820_530_830] TS-530S/830S Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:52:55 UTC
From: John Harp
Topic: 8904 Message: 9054

Joe, I'm checking with someone who may have a parts rig 930. If they have all four and are willing to part I'll take two spares and giet you two.

joe sloss <k7mks@...> wrote: I need two small knobs the size of the Noise Blanker knob. I'd settle for one but two would be a treat.

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9055. TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-25 21:42:58 UTC
From: wayfound2000
Topic: 9055 Message: 9055

Many thanks to all for the comments re 2.8Khz filter. Will report when I have decided the way forward.
My Ts530S sometimes takes up to 3 minutes to come to life! When I first switch on The meter and dial lights come on but nothing else except AF Audio can be heard but No RF or Freq display. I leave it and it suddenly springs to life then works perfectly. Any one had this before and any suggestions appreciated. What a great radio and a good group! All the best
Pete

9056. Re: [TS-520_820_530_830] Re: TS-820S VFO removal

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 08:42:23 UTC
From: Dave and Loraine
Topic: 8951 Message: 9056

Thanks Mike and Gordon,
I followed Mike's advice and just opened the side plate.
The Deoxit extension reaches the wiper perfectly.
Gordon's photos include the side plate access and the wiper.

All fixed. Thanks to a great group
Dave F4EYK

9057. Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 09:51:08 UTC
From: tetrodehead
Topic: 9057 Message: 9057

Hi Ellen and all,
My poor understanding of the neutralizing process is that it reduces coupling through plate - grid capacitance to a minimum, thereby reducing the probability of oscillation.

I can't see that neutralizing can balance the load between parallelled tubes.

I am no expert and may be barking up the wrong tree!
Would a tube expert please clarify.

Thanks
Dave F4EYK

9058. Re: Shelf Life of Caig DeoxIT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 12:24:22 UTC
From: n3hkn
Topic: 9003 Message: 9058

Hi Bob,
There are at least 10 DeOxit products many with overlapping capabilities. Have you tried this stuff, and if so, which is the best for general purpose wafer switch maintenance in the hybrid Kenwood series?

73 Dick N3HKN

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, I check the Caig web site. Here is what they list for the shelf life of DeoxIT. I put the date of purchase on chemicals that I purchase. Also the price. It explains why the tube of glue was hard as a rock. I bought it years ago. Gorilla Glue has a 6 months life, after you open it.
>
> Bob N3DOK
>
> * Warranty ** Storage - Life
>
> DeoxIT 100% Liquid 1 year 2-3 years
>
> DeoxIT 5% Liquid 1 year 2-3 years
>
> DeoxIT 5% Sprays 1 year 2-3 years
>
> * Warranty: CAIG will warranty its products for a period of 1 year from invoice date. Storage conditions must be
>
> adhered to.
>
> ** Storage Life: If storage directions are adhered to, products will last considerably longer. Values are
>
> conservative. If coloration or separation of products occur, we recommend discarding and purchasing new
>
> product.
>
> Storage Instructions: Store in a cool, dry place. Keep container tightly closed. Do not subject to excessive heat
>
> or cold.
>
> Avoid Contaminating Solutions: When using bulk liquids we recommend

transferring small amounts into a
>
> smaller container for use. This will avoid contamination of the
larger container from dirty cleaning swabs, cloths,
>
> brushes, etc.
>
> http://store.caig.com/
>
>
> [Non-text portions of this message have been removed]
>

9059. Re: MC50 Mic problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 13:02:48 UTC
From: Jack
Topic: 9022 Message: 9059

Thanks for the info. Fixed the mic and all is well. Best 73 and hope
to hear you on the air.

Jack

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi Group. Great things are going on here. Here's my latest problem.
> I have an MC50 mic that isn't working so I decided to remove the element
> and see if there was anything wrong. There is. After removing the
> cage, I carefully pulled the element out and found that it is not
> wired to the mic base at all. I have a black and a white wire coming
> from the mic base and only have a lose white wire on the mic element.
> Can anyone describe to me or send me a pic of the mic element and how
> it should be wired to the mic?
>
> Thanks in advance ---- Jack
>

9060. Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 13:10:07 UTC
From: Jack
Topic: 8761 Message: 9060

First of all I'd like to thank everyone for all your help and suggestions. I went to a friends house who has several 820s's and we dug into this beast. We swapped out all boards with no improvement then we swapped out the relay and lo and behold it came to life. So we replaced all the original boards did an alignment and now it's working great. Hope to see you on the air.

Jack

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi Group. I've recently aquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.
>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.
>
> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> prefiously replaced.
>
> I cannot find the current limiting resistor on the power supply board
> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.

>
> Jack - KF4YIO
>

9061. Re: [TS-520_820_530_830] Re: Shelf Life of Caig DeoxIT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 15:48:05 UTC
From: N3DOK
Topic: 9003 Message: 9061

Hi Dick,

I contacted Caig sometime back. I asked them which of their products would be good for cleaning older Amateur Radio equipment. DeOxit was suggested. Also as I read some of the older files of this group, There is suggestion of the use DeOxit.
With so many contact cleaners on the market, I would say it is like which motor oil is best for your car. Years ago A Tech told me not to use any contact cleaner that left a lubricant on the Bandswitch area.

Now I can see Emails telling what other brands of contact cleaner work better.

Bob N3DOK

----- Original Message -----
From: n3hkn
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 26, 2006 8:24 AM
Subject: [TS-520_820_530_830] Re: Shelf Life of Caig DeoxIT

Hi Bob,
There are at least 10 DeOxit products many with overlapping capabilities. Have you tried this stuff, and if so, which is the best for general purpose wafer switch maintenance in the hybrid Kenwood series?

73 Dick N3HKN

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi, I check the Caig web site. Here is what they list for the shelf life of DeoxIT. I put the date of purchase on chemicals that I purchase. Also the price. It explains why the tube of glue was hard as a rock. I bought it years ago. Gorilla Glue has a 6 months life, after you open it.
>
> Bob N3DOK
>
> * Warranty ** Storage - Life
>
> DeoxIT 100% Liquid 1 year 2-3 years
>
> DeoxIT 5% Liquid 1 year 2-3 years
>
> DeoxIT 5% Sprays 1 year 2-3 years
>
> * Warranty: CAIG will warranty its products for a period of 1 year from invoice date. Storage conditions must be

>
> adhered to.
>
> ** Storage Life: If storage directions are adhered to, products
will last considerably longer. Values are
>
> conservative. If coloration or separation of products occur, we
recommend discarding and purchasing new
>
> product.
>
> Storage Instructions: Store in a cool, dry place. Keep container
tightly closed. Do not subject to excessive heat
>
> or cold.
>
> Avoid Contaminating Solutions: When using bulk liquids we recommend
transferring small amounts into a
>
> smaller container for use. This will avoid contamination of the
larger container from dirty cleaning swabs, cloths,
>
> brushes, etc.
>
> http://store.caig.com/
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9062. Re: [TS-520_820_530_830] Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 16:55:49 UTC
From: John Harp
Topic: 8761 Message: 9062

Wow what a way to find out it's a relay. Well at least you got the 820 up and going congradulations.

Jack <kf4yio@...> wrote:
First of all I'd like to thank everyone for all your help and suggestions. I went to a friends house who has several 820s's and we dug into this beast. We swapped out all boards with no improvement then we swapped out the relay and lo and behold it came to life. So we replaced all the original boards did an alignment and now it's working great. Hope to see you on the air.

Jack

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi Group. I've recently aquired a TS-820S. Seems to be completely
> functional on receive. Could use a slight alignment.
>
> The transmitter section does not function. I have a slight
> difference in the transmit/receive frequency. I have adjusted the 9V
> and 3.3V on the AVC board. This has not changed the transmit display
> but the 3.3V adjustment did bring up the noise level a little and it
> seemed to zero the S meter under no signal.
>
> I can get a 60 ma bias reading via the bias adjustment control on the
> back panel.
>
> I cannot get any alc action when tuning the drive control. The meter
> is in the ALC position.
>
> I Cannot get any Ip indication what so ever.
>
> The 12BY7 and the S2001A tubes all check very good on my Knight 300
> tube tester.
>
> The SG control on the back of the radio is in the "ON" position.
>
> I do not have an external VFO but do have pins 8 and 9 shorted on the
> vfo plug socket.
>
> I checked R6 on the rectifier board and it checks ok. (it had been
> prefiously replaced.
>
> I cannot find the current limiting resistor on the power supply board

> to check if it is open.
>
> Any help would be greatly appreciated.
>
> Thanks in advance.
>
> Jack - KF4YIO
>

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9063. Re: Ts-820S No transmit/no alc/no drive/no output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 17:54:40 UTC
From: Gordon
Topic: 8761 Message: 9063

Good Fix Jack,
Throwing parts at it until the problem is found is one sure way of
finding the problem.. hi hi.
Sometimes I wish I had the spare parts to do that on some of these rigs.
Glad you got it working.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
>
> First of all I'd like to thank everyone for all your help and
> suggestions. I went to a friends house who has several 820s's and we
> dug into this beast. We swapped out all boards with no improvement
> then we swapped out the relay and lo and behold it came to life. So
> we replaced all the original boards did an alignment and now it's
> working great. Hope to see you on the air.
>
> Jack
>
>
> --- In TS-520_820_530_830@...m, "Jack" <kf4yio@> wrote:
> >
> > Hi Group. I've recently aquired a TS-820S. Seems to be completely
> > functional on receive. Could use a slight alignment.
> >
> > The transmitter section does not function. I have a slight
> > difference in the transmit/receive frequency. I have adjusted the 9V
> > and 3.3V on the AVC board. This has not changed the transmit display
> > but the 3.3V adjustment did bring up the noise level a little and it
> > seemed to zero the S meter under no signal.
> >
> > I can get a 60 ma bias reading via the bias adjustment control on the
> > back panel.
> >
> > I cannot get any alc action when tuning the drive control. The meter
> > is in the ALC position.
> >
> > I Cannot get any Ip indication what so ever.
> >
> > The 12BY7 and the S2001A tubes all check very good on my Knight 300
> > tube tester.
> >
> > The SG control on the back of the radio is in the "ON" position.
> >

> > I do not have an external VFO but do have pins 8 and 9 shorted on the
> > vfo plug socket.
> >
> > I checked R6 on the rectifier board and it checks ok. (it had been
> > prefiously replaced.
> >
> > I cannot find the current limiting resistor on the power supply board
> > to check if it is open.
> >
> > Any help would be greatly appreciated.
> >
> > Thanks in advance.
> >
> > Jack - KF4YIO
> >
>

9064. Re: Shelf Life of Caig DeoxIT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-26 18:30:04 UTC
From: n3hkn
Topic: 9003 Message: 9064

Well, right now I do not have any problems (challenges as politicians say). I was thinking about preventive maintenance with a view toward removing any "crud" before it becomes so bad as to cause something nasty. At that time it may not be as easy to clean. Guess I will go with the vanilla DeOxit simply due to its popularity. As I said the descriptions for the 10 different varieties of DeOxit overlap and are redundant in some respects.

73 - Dick N3HKN

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi Dick,
>
> I contacted Caig sometime back. I asked them which of their products would be good for cleaning older Amateur Radio equipment. DeOxit was suggested. Also as I read some of the older files of this group, There is suggestion of the use DeOxit.
> With so many contact cleaners on the market, I would say it is like which motor oil is best for your car. Years ago A Tech told me not to use any contact cleaner that left a lubricant on the Bandswitch area.
>
> Now I can see Emails telling what other brands of contact cleaner work better.
>
> Bob N3DOK
>
>
>
>
>
>
> ----- Original Message -----
> From: n3hkn
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 26, 2006 8:24 AM
> Subject: [TS-520_820_530_830] Re: Shelf Life of Caig DeoxIT
>
>
>
> Hi Bob,
> There are at least 10 DeOxit products many with overlapping
> capabilities. Have you tried this stuff, and if so, which is the best

> for general purpose wafer switch maintenance in the hybrid
Kenwood
> series?
>
> 73 Dick N3HKN
>
> --- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@> wrote:
> >
> > Hi, I check the Caig web site. Here is what they list for the
shelf
> life of DeoxIT. I put the date of purchase on chemicals that I
> purchase. Also the price. It explains why the tube of glue was
hard
> as a rock. I bought it years ago. Gorilla Glue has a 6 months
life,
> after you open it.
> >
> > Bob N3DOK
> >
> > * Warranty ** Storage - Life
> >
> > DeoxIT 100% Liquid 1 year 2-3 years
> >
> > DeoxIT 5% Liquid 1 year 2-3 years
> >
> > DeoxIT 5% Sprays 1 year 2-3 years
> >
> > * Warranty: CAIG will warranty its products for a period of 1
year
> from invoice date. Storage conditions must be
> >
> > adhered to.
> >
> > ** Storage Life: If storage directions are adhered to, products
> will last considerably longer. Values are
> >
> > conservative. If coloration or separation of products occur, we
> recommend discarding and purchasing new
> >
> > product.
> >
> > Storage Instructions: Store in a cool, dry place. Keep
container
> tightly closed. Do not subject to excessive heat
> >
> > or cold.
> >
> > Avoid Contaminating Solutions: When using bulk liquids we
recommend
> transferring small amounts into a

> >
> > smaller container for use. This will avoid contamination of the
> larger container from dirty cleaning swabs, cloths,
> >
> > brushes, etc.
> >
> > http://store.caig.com/
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9065. AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 02:27:52 UTC
From: wb4mnk
Topic: 6938 Message: 9065

I was just sitting here looking at my TS-830S set up which is the TS-830S, VFO-230, SP-230 and the AT-230. I decided to work some PSK and was Loading up the TS-830S to the dummy load and then decided to check the SWR on the antenna with the AT-230. Well I could not check the SWR because I could not see the meter.

My question is has any one added a light to the AT-230 meter ? If so please let me know how you made the modification.

73
Art
WB4MNK

9066. TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 02:02:48 UTC
From: Ron Hauser
Topic: 7936 Message: 9066

Greetings Kenwood Gurus. About two months ago I was working along with Joe Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO. Bill helped get me set up with a VTVM, I eventually got an RF probe made, and finally I have done some testing.

The problem:

I have a TS830S that I got from the previous owner about a year ago. There is no drive at all on 30m, no matter the position of the drive control knob (also no RF out). All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal.

Based on Joan's problem with a missing band, I tested C74 and L36 on the RF board. I believe that both these components are ok -- L36 showed right at the 4 ohms level Joan was looking for, and C74 is not shorted and doesn't look burned or anything.

I then took Joe's advice and attempted to measure the RF voltage on the grid of the driver tube. I believe this is a promising path, but I must first verify that I measured on the _correct_ pin. So. I have the radio sitting right side up on the bench with the covers off, the RF board is exposed and the driver tube is right there in the middle. I'm looking down at the tube/socket from above -- actually I am also looking at the board layout diagram in the service manual, which is the same orientation of course. I'm a little fuzzy on the "proper" numbering order of the pins. But anyway in this orientation the gap with no pins is at 9 oclock. There is a pin at 8 oclock, one at 7 oclock, one at five oclock. After staring at the diagrams and thinking about it for a while, I believe the pin at 7 oclock is the one that I want. So I put the rf probe on that pin and with the rig in tune, I switched to send and indeed I got RF.

Question #1. Am I on the right pin (or if not what am I measuring!?!)

Question #2. If I am on the right pin, I have an interesting result, because the RF voltage is not the same. At 14110 kHz I got 1.5 V. At 7110 kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser

Sent: Wednesday, June 07, 2006 11:05 PM
To: 'joe sloss'
Cc: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then
your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are
having. I think I've deleted some of your earlier comments on what was
wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?
>
> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.

>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]
>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power
>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one
>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a
>> copper trace and silver connector held together with a tin rivit. This
>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

Yahoo! Groups Links

9067. Re: AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 03:39:57 UTC
From: digs4ruff
Topic: 6938 Message: 9067

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> I was just sitting here looking at my TS-830S set up which is the TS-
> 830S, VFO-230, SP-230 and the AT-230. I decided to work some PSK and
> was Loading up the TS-830S to the dummy load and then decided to
check
> the SWR on the antenna with the AT-230. Well I could not check the
SWR
> because I could not see the meter.
>
> My question is has any one added a light to the AT-230 meter ? If so
> please let me know how you made the modification.
>
> 73
> Art
> WB4MNK
>
Art
I have a 820s and have just bought a at-230 which hasn't arived yet. I
will be looking at the same thing and will probably go with a white
LED as I have an abundance of 12V available.
Regards
Barry VA7GEM

9068. Re: [TS-520_820_530_830] Re: AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 04:18:46 UTC
From: Art
Topic: 6938 Message: 9068

Hi Barry, When you get the AT-230 please let me know where you get the 12 volts from and how and where are you going to place your LED?

73
Art
WB4MNK
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 26, 2006 11:39 PM
Subject: [TS-520_820_530_830] Re: AT-230

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> I was just sitting here looking at my TS-830S set up which is the TS-
> 830S, VFO-230, SP-230 and the AT-230. I decided to work some PSK and
> was Loading up the TS-830S to the dummy load and then decided to
check
> the SWR on the antenna with the AT-230. Well I could not check the
SWR
> because I could not see the meter.
>
> My question is has any one added a light to the AT-230 meter ? If so
> please let me know how you made the modification.
>
> 73
> Art
> WB4MNK
>
Art
I have a 820s and have just bought a at-230 which hasn't arived yet. I
will be looking at the same thing and will probably go with a white
LED as I have an abundance of 12V available.
Regards
Barry VA7GEM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/2006

[Non-text portions of this message have been removed]

9069. Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 04:41:44 UTC
From: Ellen R
Topic: 9057 Message: 9069

Hi Dave,

Nope, you have it quite right. I realized that after I write my message. It's just that it seems to be easier to reduce this capacitance in a matched set. When you've reached the null point, you've eliminated the oscillation (or at least reduced the oscillation to an extremely low level, where it won't cause problems).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "tetrodehead" <dave.crooks@...> wrote:
>
> Hi Ellen and all,
> My poor understanding of the neutralizing process is that it reduces
> coupling through plate - grid capacitance to a minimum, thereby
> reducing the probability of oscillation.
>
> I can't see that neutralizing can balance the load between parallelled
> tubes.
>
> I am no expert and may be barking up the wrong tree!
> Would a tube expert please clarify.
>
> Thanks
> Dave F4EYK
>

9070. Re: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 10:39:25 UTC
From: n9wb
Topic: 9057 Message: 9070

Mike and others:

With push-pull amplifiers such as with tube type guitar amplifiers balance between the tubes is very important. Each tube produces one half cycle of the audio waveform and if one is different from the other, the waveform will be unbalanced causing distortion. Sometimes these tubes have individual bias adjustments, In other amplifier designs, there is a balance pot that tilts the bias a bit more to one tube or the other to exactly balance the tubes even if they are a matched pair. This is usually done by placing a tone that is a sine wave through the amplifier and the balance or bias is adjusted for minimum distortion as observed on the output with an oscilloscope.

Our rigs have tubes in parallel instead of push pull. Exact balance is not nearly so critical as with push-pull but it is helpful and the closer the tubes are balanced, the cleaner will be the signal that is produced.

If the tubes are not balanced, the 60 ma bias will actually be a compromise between these tubes. For example, one tube may draw 40 ma and the other 20 ma for the total of 60 ma instead of 30 ma each. This means that one or both of the tubes will not be biased to the optimum linearity point. There is considerable allowable tolerance in this before the problem will be noticeable.

Another problem that this will cause is that the stronger tube will be doing more work and running hotter causing faster degradation. Again, a slight imbalance is not critical but a great imbalance can be troublesome.

It is possible to use unmatched tubes but it is better to use tubes that are of the same manufacture, look exactly alike inside and check close to the same on a tube checker. Even better is a matched pair.

Tubes have some natural capacitance between the elements. Of particular concern is that capacitance between the plate and the grid. With 6146/S2001 types, this has little effect on lower frequencies such as 80 meters, but as frequencies increase to 20,15, and 10 meters, this can be troublesome resulting in reduced output and sometimes self oscillation or parasitic emissions.

To compensate for this, a capacitive network is intentionally placed between the plate and the grid circuit that provides feedback that is 180 degrees out of phase with the feedback caused by the inter-electrode capacitance. This equal and opposite value neutralizes or cancels the original inter-electrode capacitance.

With the TS-820 and other similar Kenwood hybrids, there is a switch on the back that changes the positive screen bias to a negative voltage. This shuts the finals current flow off and they will not amplify thus providing a convenient method of neutralization. Any remaining signal on the output is signal from the driver that is leaking through by way of the final tube's inter-electrode capacitance. If we adjust the neutralization capacitor with the SG switch off while observing the output on a scope or other sensitive device, we can nudge the neutralization adjustment until there is little of any signal leaking through.

There are other methods of doing this, but since Mike has a 30 MHz scope, this will be the easiest for him.

The inter-electrode capacitance of the tubes in parallel is the sum of the total for both tubes. The Control grids are in parallel, and the plates are in parallel. Balance is not a factor from a neutralization standpoint. You are not balancing the tubes by neutralizing, you are canceling out the sum inter-electrode capacitance of these tubes.

There is a specified frequency upon which neutralization should be performed. This is different between different models of rigs. The TS-820 (s) specifies a frequency of 21.300 MHz. To neutralize with a scope, tune up the rig near 21.300 into a dummy load. Turn the SG switch off and connect a coax T connector to the rig output or dummy load input so the rig is feeding the dummy load through the T connector. Using a scope probe, connect the scope to the open terminal of the T connector and the scope probe ground lead to the connector ground. Key the rig on CW with the Car. control fully up (Clockwise) and observe the RF carrier signal that will appear as a wide bar on the scope. Nudge the neutralization capacitor until the signal is at minimum. Keep increasing the vertical gain on the scope until you can see that you are indeed at minimum.

Unkey the rig and remove the scope probe before turning the SG switch back on.

The depth of the neutralization will often not be as deep on other bands as it will be on the specified neutralization frequency, in this case 21.300 MHz. This is normal with multi-band rigs.

The cover must be left on the final cage and it is best to use an insulated tool for adjusting the neutralization capacitor. However, I sometimes have experience problems that the capacitor is so stiff that the tool breaks before the capacitor will turn.

As an alternative, find a proper size screwdriver with a well insulated handle. Do not use wood because it can absorb moisture and become a conductor. Ouch!
Place two layers of shrink tubing or good quality electrical tape around the shaft down to the blade. This is to prevent the shaft from shorting out on the edge of the access hole. Nudge the capacitor a bit at a time one way or the other and remove it. Observe the scope to see if the signal has increased or decreased. Continue a nudge at a time in the direction that brings you to the minimum point, removing the tool each time you check the

scope. When you have found the minimum point, it is neutralized.

There is another way to neutralize by observing the characteristics of the dip on the IP meter and the output peak with the SG switch on.. Since Mike has a scope, I am describing the scope method at this time.

Vy 73, Walt N9WB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, August 26, 2006 11:41 PM
Subject: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Hi Dave,

Nope, you have it quite right. I realized that after I write my message. It's just that it seems to be easier to reduce this capacitance in a matched set. When you've reached the null point, you've eliminated the oscillation (or at least reduced the oscillation to an extremely low level, where it won't cause problems).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "tetrodehead" <dave.crooks@...> wrote:
>
> Hi Ellen and all,
> My poor understanding of the neutralizing process is that it reduces
> coupling through plate - grid capacitance to a minimum, thereby
> reducing the probability of oscillation.
>
> I can't see that neutralizing can balance the load between parallelled
> tubes.
>
> I am no expert and may be barking up the wrong tree!
> Would a tube expert please clarify.
>
> Thanks
> Dave F4EYK
>

9071. Re: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 10:48:06 UTC
From: Dave and Loraine
Topic: 9057 Message: 9071

OK Mike and Ellen. Thanks for raising the issue.

Walt, thanks for a very clear description.

73 to all,
Dave F4EYK

9072. For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 11:46:57 UTC
From: cdf00001
Topic: 186 Message: 9072

Good Morning To All,
I have decided to sell my TS-520S. It has been a great rig but I
just do not feel well enough these days to play radio.
With the radio comes the matching SP-520 speaker, a new Astatic
amplified hand mic, op manual, and factory box for the radio.
The radio works well and looks great and has no known issues.
I am asking $225.00 for everything. Would prefer pickup at my home
in Crystal River Florida or will ship in the cont US at your expense.
It will have to be shiped in two boxes.
If you are interested please email me off list at
dfeigley1@... Or you can call me at 727-417-6224 after 7 pm
EST.
Thanks and have a great day.
Charlie W4CDF

9073. Re: AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 13:04:24 UTC
From: digs4ruff
Topic: 6938 Message: 9073

--- In TS-520_820_530_830@yahoogroups.com, "Art" <wb4mnk@...> wrote:
>
> Hi Barry, When you get the AT-230 please let me know where you get the 12 volts from and how and where are you going to place your LED?
>
Art
No problem at all. The 12V comes from a converted server power supply, about 40 amps available at my desk.
regards
Barry
VA7GEM

9074. Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 13:04:38 UTC
From: wayfound2000
Topic: 9055 Message: 9074

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Many thanks to all for the comments re 2.8Khz filter. Will report
when
> I have decided the way forward.
> My Ts530S sometimes takes up to 3 minutes to come to life! When I
> first switch on The meter and dial lights come on but nothing else
> except AF Audio can be heard but No RF or Freq display. I leave it
and
> it suddenly springs to life then works perfectly. Any one had this
> before and any suggestions appreciated. What a great radio and a
good
> group! All the best
> Pete

Any ideas anyone please??????
>

9075. Re: [TS-520_820_530_830] Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 15:15:32 UTC
From: David Rust
Topic: 9055 Message: 9075

Pete, Wayfound2000,
I would first take a phillips screwdriver, and slightly loosen and then retighten every circuit board in the radio. You might just cure it right then and there. I just recently got a beautiful 530s, and all of them were loose.
73 keep us informed
Dave W0DLR

[Non-text portions of this message have been removed]

9076. Re: [TS-520_820_530_830] Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 15:37:41 UTC
From: Ken Winterling
Topic: 9055 Message: 9076

Pete,

I have a TS-830S on the bench that exhibits the same behavior. I traced it to the 9V regulated circuit. When malfunctioning it puts out much less than 9V although the pre-regulated (input) voltage is normal. Suddenly, the regulator starts outputting 9V and the rig works normally. I have not yet isolated the responsible culprit(s). It originally appeared to be a mechanical problem such as a poor solder joint but so far I have been unable to find any. The regulator circuit uses several discrete transistors vs a three terminal device such as a 7809.

I want to see if I can find an easy way to isolate the output of the regulator from the rest of the circuit. The regulator may not be the problem. There may be a defective downstream component in the rig that is temporarily drawing too much current and then suddenly stops doing that.

If I can separate the regulator from the circuit I can use a metered (volt & mA) and current-regulated bench supply to see what is going on in the rest of the rig. At the same time I can put meters and an independent load on the isolated 9V supply to observe its behavior. This will isolate the problem to the rig or the 9V supply.

Due to excessive work hours I have been unable to spend any time in the shop for the last month or so. When I get back to it I'll post my findings and, hopefully, the cure. If/when you resolve your problem please post your results.

73,

Ken, WA2LBI

On 8/27/06, wayfound2000 <wayfound2000@...> wrote:
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@...> wrote:
> >
> > My Ts530S sometimes takes up to 3 minutes to come to life! When I
> > first switch on The meter and dial lights come on but nothing else
> > except AF Audio can be heard but No RF or Freq display. I leave it
> and
> > it suddenly springs to life then works perfectly. Any one had this
> > before and any suggestions appreciated. What a great radio and a
> good
> > group! All the best
> > Pete
>

> Any ideas anyone please??????

9077. Re: [TS-520_820_530_830] Re: AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 16:16:15 UTC
From: Art
Topic: 6938 Message: 9077

OK Barry, I was thinking of getting the 12 volts from the TS-830S. Same circuit the other bulbs are on. This way when I turn on the TS-830S the meter in the AT-230 would light up at the same time. I am going to look inside the AT-230 to see the best place to locate the bulb because I do not think the meter has a place to mount a bulb. I will let you know what I come up with Barry.

73
Art
WB4MNK
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 27, 2006 9:04 AM
Subject: [TS-520_820_530_830] Re: AT-230

--- In TS-520_820_530_830@yahoogroups.com, "Art" <wb4mnk@...> wrote:
>
> Hi Barry, When you get the AT-230 please let me know where you get
the 12 volts from and how and where are you going to place your LED?
>
Art
No problem at all. The 12V comes from a converted server power supply,
about 40 amps available at my desk.
regards
Barry
VA7GEM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/2006

[Non-text portions of this message have been removed]

9078. Re: [TS-520_820_530_830] TS-530S/830S Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 16:23:45 UTC
From: Rick May
Topic: 8904 Message: 9078

Hey Joe and John,

A guy on E-Bay has a set of 930S knobs for sale....

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ih=008&item=180021123215&rd=1&sspagename=STRK%3AMEWA%3AIT&rd=1

73' Rick KC0HH

John Harp <ka3dpw@...> wrote: Joe, I'm checking with someone who may have a parts rig 930. If they have all four and are willing to part I'll take two spares and giet you two.

joe sloss <k7mks@...> wrote: I need two small knobs the size of the Noise Blanker knob. I'd settle for one but two would be a treat.

Thank you,

Joe k7mks

,_.___ Messages in this topic (2) Reply (via web post) | Start a new topic
Messages | Files | Photos | Database | Members

You are receiving Individual Emails Change Delivery Settings
Visit Your Group | Yahoo! Groups Terms of Use | Unsubscribe

Recent Activity

9
New Members

10
New Photos

2
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Yahoo! News
Get it all here
Breaking news to
entertainment news

Y! Toolbar
Add Groups
to your
Yahoo! Toolbar.

Get Low Fares
Yahoo! FareChase
Searches sites so
you don't have to

.

73' Rick KC0HH
Lamar, Colorado

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9079. Re: Neutralizing our tubes (s2001A-6146B-6146W operating in Class AB1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 17:15:03 UTC
From: bob54quam@cs.com
Topic: 9079 Message: 9079

Good explanation of neutralization and matching tubes, Walt; better than mine a couple months ago. Tube matching is not well understood, but is less of an issue with the 6146 family of tubes than with the various sweep tubes, which are not made with the close tolerances of the 6146's. Matching is essential with sweep tubes and preferable for 6146's.
Because of accessability of the control, I find the Kenwood hybrid rigs the most difficult to neutralize of any I have.
Bob
KI0KM

[Non-text portions of this message have been removed]

9080. Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 18:44:21 UTC
From: Gordon
Topic: 9055 Message: 9080

Check VR4 on the AF Board. It probably needs to be cleaned. Tap it
lightly and see if it brings the 830 to life.
Another possibility is the contacts at the connectors on the AF board.

Gordon
--- In TS-520_820_530_830@yahoogroups.com, "Ken Winterling"
<wa2lbi@...> wrote:
>
> Pete,
>
> I have a TS-830S on the bench that exhibits the same behavior. I
> traced it to the 9V regulated circuit. When malfunctioning it puts
> out much less than 9V although the pre-regulated (input) voltage is
> normal. Suddenly, the regulator starts outputting 9V and the rig
> works normally. I have not yet isolated the responsible culprit(s).
> It originally appeared to be a mechanical problem such as a poor
> solder joint but so far I have been unable to find any. The regulator
> circuit uses several discrete transistors vs a three terminal device
> such as a 7809.
>
> I want to see if I can find an easy way to isolate the output of the
> regulator from the rest of the circuit. The regulator may not be the
> problem. There may be a defective downstream component in the rig
> that is temporarily drawing too much current and then suddenly stops
> doing that.
>
> If I can separate the regulator from the circuit I can use a metered
> (volt & mA) and current-regulated bench supply to see what is going on
> in the rest of the rig. At the same time I can put meters and an
> independent load on the isolated 9V supply to observe its behavior.
> This will isolate the problem to the rig or the 9V supply.
>
> Due to excessive work hours I have been unable to spend any time in
> the shop for the last month or so. When I get back to it I'll post my
> findings and, hopefully, the cure. If/when you resolve your problem
> please post your results.
>
> 73,
>
> Ken, WA2LBI
>
> On 8/27/06, wayfound2000 <wayfound2000@...> wrote:
> > --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> > <wayfound2000@> wrote:
> > >

> > > My Ts530S sometimes takes up to 3 minutes to come to life! When I
> > > first switch on The meter and dial lights come on but nothing else
> > > except AF Audio can be heard but No RF or Freq display. I leave it
> > and
> > > it suddenly springs to life then works perfectly. Any one had this
> > > before and any suggestions appreciated. What a great radio and a
> > good
> > > group! All the best
> > > Pete
> >
> > Any ideas anyone please??????
>

9081. RE: [TS-520_820_530_830] TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 01:29:04 UTC
From: Ron Hauser
Topic: 7936 Message: 9081

Replying to my own email... I did a bit more tracing today after the comments below. The output of the balance mixer, and specifically the output of Q6/Q7, is the same as the input to the driver tube... So I have this discrepancy coming out of Q6/Q7. On 14110, about 1.5v RMS. On 7110 about 1.5v RMS. On 10110, over 5v RMS. I'm working my way through the circuits around Q6/Q7, there has to be a component that has gone bad that is messing up the bias on these perhaps? Anyone who has experience (or just random ideas) I would appreciate your thoughts. I've never been this deep in an electronic troubleshooting excersize before.

Thanks!
73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Saturday, August 26, 2006 9:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Greetings Kenwood Gurus. About two months ago I was working along with Joe Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO. Bill helped get me set up with a VTVM, I eventually got an RF probe made, and finally I have done some testing.

The problem:

I have a TS830S that I got from the previous owner about a year ago. There is no drive at all on 30m, no matter the position of the drive control knob (also no RF out). All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal.

Based on Joan's problem with a missing band, I tested C74 and L36 on the RF board. I believe that both these components are ok -- L36 showed right at the 4 ohms level Joan was looking for, and C74 is not shorted and doesn't look burned or anything.

I then took Joe's advice and attempted to measure the RF voltage on the grid of the driver tube. I believe this is a promising path, but I must first verify that I measured on the _correct_ pin. So. I have the radio sitting right side up on the bench with the covers off, the RF board is exposed and the driver tube is right there in the middle. I'm looking down at the tube/socket from above -- actually I am also looking at the board layout diagram in the service manual, which is the same orientation of course. I'm a little fuzzy on the "proper" numbering order of the pins. But anyway in this orientation the gap with no pins is at 9 oclock. There is a pin at 8 oclock, one at 7 oclock, one at five oclock. After staring at the diagrams and thinking about it for a while, I believe the pin at 7 oclock is the one that I want. So I put the rf probe on that pin and with the rig in tune, I switched to send and indeed I got RF.

Question #1. Am I on the right pin (or if not what am I measuring!?!)

Question #2. If I am on the right pin, I have an interesting result, because the RF voltage is not the same. At 14110 kHz I got 1.5 V. At 7110 kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Wednesday, June 07, 2006 11:05 PM
To: 'joe sloss'
Cc: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to

come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the
BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then
your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are
having. I think I've deleted some of your earlier comments on what was
wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)

>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?
>
> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.
>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]
>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power
>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one

>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a
>> copper trace and silver connector held together with a tin rivit. This
>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

Yahoo! Groups Links

Yahoo! Groups Links

9082. Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-27 23:27:03 UTC
From: wayfound2000
Topic: 9055 Message: 9082

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Pete, Wayfound2000,
> I would first take a phillips screwdriver, and slightly loosen and
then retighten every circuit board in the radio. You might just cure
it right then and there. I just recently got a beautiful 530s, and
all of them were loose.
> 73 keep us informed
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>
many thanks..will givie it A TRY!
Pete

9083. Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 02:50:09 UTC
From: Ellen R
Topic: 9057 Message: 9083

Walt, Mr. Guru of the Kenwood,

Once again, you've explained it far better than I could have. Many Thanks.

73,
Ellen - AF9J

P.S. - as you well know, neutralization is a non-event, if done properly. I had no problems neutralizing mine (it's just tedious to do). Now she's humming along sweetly at 100-115W output (depending upon the band).

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Mike and others:
>
> With push-pull amplifiers such as with tube type guitar amplifiers balance
> between the tubes is very important. Each tube produces one half cycle of
> the audio waveform and if one is different from the other, the waveform will
> be unbalanced causing distortion. Sometimes these tubes have individual bias
> adjustments, In other amplifier designs, there is a balance pot that tilts
> the bias a bit more to one tube or the other to exactly balance the tubes
> even if they are a matched pair. This is usually done by placing a tone that
> is a sine wave through the amplifier and the balance or bias is adjusted for
> minimum distortion as observed on the output with an oscilloscope.
>
> Our rigs have tubes in parallel instead of push pull. Exact balance is not
> nearly so critical as with push-pull but it is helpful and the closer the
> tubes are balanced, the cleaner will be the signal that is produced.
>
> If the tubes are not balanced, the 60 ma bias will actually be a compromise
> between these tubes. For example, one tube may draw 40 ma and the other 20

> ma for the total of 60 ma instead of 30 ma each. This means that
one or both
> of the tubes will not be biased to the optimum linearity point.
There is
> considerable allowable tolerance in this before the problem will be
> noticeable.
>
> Another problem that this will cause is that the stronger tube will
be doing
> more work and running hotter causing faster degradation. Again, a
slight
> imbalance is not critical but a great imbalance can be troublesome.
>
> It is possible to use unmatched tubes but it is better to use tubes
that are
> of the same manufacture, look exactly alike inside and check close
to the
> same on a tube checker. Even better is a matched pair.
>
> Tubes have some natural capacitance between the elements. Of
particular
> concern is that capacitance between the plate and the grid. With
6146/S2001
> types, this has little effect on lower frequencies such as 80
meters, but as
> frequencies increase to 20,15, and 10 meters, this can be
troublesome
> resulting in reduced output and sometimes self oscillation or
parasitic
> emissions.
>
> To compensate for this, a capacitive network is intentionally
placed
> between the plate and the grid circuit that provides feedback that
is 180
> degrees out of phase with the feedback caused by the inter-electrode
> capacitance. This equal and opposite value neutralizes or cancels
the
> original inter-electrode capacitance.
>
> With the TS-820 and other similar Kenwood hybrids, there is a
switch on the
> back that changes the positive screen bias to a negative voltage.
This shuts
> the finals current flow off and they will not amplify thus
providing a
> convenient method of neutralization. Any remaining signal on the
output is
> signal from the driver that is leaking through by way of the final
tube's

> inter-electrode capacitance. If we adjust the neutralization
capacitor with
> the SG switch off while observing the output on a scope or other
sensitive
> device, we can nudge the neutralization adjustment until there is
little of
> any signal leaking through.
>
> There are other methods of doing this, but since Mike has a 30 MHz
scope,
> this will be the easiest for him.
>
> The inter-electrode capacitance of the tubes in parallel is the sum
of the
> total for both tubes. The Control grids are in parallel, and the
plates are
> in parallel. Balance is not a factor from a neutralization
standpoint. You
> are not balancing the tubes by neutralizing, you are canceling out
the sum
> inter-electrode capacitance of these tubes.
>
> There is a specified frequency upon which neutralization should be
> performed. This is different between different models of rigs. The
TS-820
> (s) specifies a frequency of 21.300 MHz. To neutralize with a
scope, tune up
> the rig near 21.300 into a dummy load. Turn the SG switch off and
connect a
> coax T connector to the rig output or dummy load input so the rig
is feeding
> the dummy load through the T connector. Using a scope probe,
connect the
> scope to the open terminal of the T connector and the scope probe
ground
> lead to the connector ground. Key the rig on CW with the Car.
control fully
> up (Clockwise) and observe the RF carrier signal that will appear
as a wide
> bar on the scope. Nudge the neutralization capacitor until the
signal is at
> minimum. Keep increasing the vertical gain on the scope until you
can see
> that you are indeed at minimum.
>
> Unkey the rig and remove the scope probe before turning the SG
switch back
> on.
>
> The depth of the neutralization will often not be as deep on other

bands as
> it will be on the specified neutralization frequency, in this case
21.300
> MHz. This is normal with multi-band rigs.
>
> The cover must be left on the final cage and it is best to use an
insulated
> tool for adjusting the neutralization capacitor. However, I
sometimes have
> experience problems that the capacitor is so stiff that the tool
breaks
> before the capacitor will turn.
>
> As an alternative, find a proper size screwdriver with a well
insulated
> handle. Do not use wood because it can absorb moisture and become a
> conductor. Ouch!
> Place two layers of shrink tubing or good quality electrical tape
around the
> shaft down to the blade. This is to prevent the shaft from shorting
out on
> the edge of the access hole. Nudge the capacitor a bit at a time
one way or
> the other and remove it. Observe the scope to see if the signal has
> increased or decreased. Continue a nudge at a time in the direction
that
> brings you to the minimum point, removing the tool each time you
check the
> scope. When you have found the minimum point, it is neutralized.
>
> There is another way to neutralize by observing the characteristics
of the
> dip on the IP meter and the output peak with the SG switch on..
Since Mike
> has a scope, I am describing the scope method at this time.
>
> Vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 26, 2006 11:41 PM
> Subject: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A -
> 6416B -6416W operating in Class AB1)
>
>
> Hi Dave,

>
> Nope, you have it quite right. I realized that after I write my
> message. It's just that it seems to be easier to reduce this
> capacitance in a matched set. When you've reached the null point,
> you've eliminated the oscillation (or at least reduced the
> oscillation to an extremely low level, where it won't cause
> problems).
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "tetrodehead"
> <dave.crooks@> wrote:
> >
> > Hi Ellen and all,
> > My poor understanding of the neutralizing process is that it
> reduces
> > coupling through plate - grid capacitance to a minimum, thereby
> > reducing the probability of oscillation.
> >
> > I can't see that neutralizing can balance the load between
> parallelled
> > tubes.
> >
> > I am no expert and may be barking up the wrong tree!
> > Would a tube expert please clarify.
> >
> > Thanks
> > Dave F4EYK
> >
>

9084. Re: VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 04:43:07 UTC
From: Gordon
Topic: 8867 Message: 9084

Hi Bill and group,
Thanks for all the info. Seems the fellow I bought the rig and VFO from found the Cable and sent it to me Via Priority mail. Very nice guy! Plugged the cable in, and it all works great. I'm waiting on some replacement band switch couplers, then I'm going to sell this 830 and VFO-240 to buy some more rigs to work on.. hi hi...
This has to be one of the nicest 830's I have ever seen and it works GREAT ! I wanted to keep it, but if I do, I won't be able to buy more "Projects" that need my help. I enjoy fixing these hybrids !!!

73 and thanks guys,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Hi Gordon.
>
> I researched the schematics for the TS-830S, TS-530S, VFO-230, and VFO-240 regarding the cable for a remote vfo. I believe you are correct in that the pins appear to be wired direct pin-to-pin on each end of the cable. Here is what I found for the 8 pin remote vfo sockets on the radios and on the VFO's.
>
> Pin 1 - the "hot" Remote VFO signal going to the PLL Unit connector 6 pin 1 (TS-530S). Note that the radio internal VFO signal goes to connector 5 pin 2 (PLL Unit).
>
> Pin 2 - Identified as "RL" going to the AF Unit connector 6 pin 6 (TS-530S). Also identified as "RL" in the VFO-240 and VFO-230.
>
> Pin 3 - Identified as "9" (volts?) going to the AF Unit connector 6 pin 7 (TS-530S). Also identified as "9" in the VFO-240 and VFO-230.
>
> Pin 4 - Identified as "RLC" going to pin 1 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS530S). There is no connection to pin 4 for VFO-240, but there is a connection in the VFO-230.
>
> Pin 5 - Identified as "VFB" going to pin 3 of the VFO Assembly X60-1150-01 plug of the internal vfo (TS-530S). The connection to this pin 5 for the VFO-240 is identified as "MCO". In VFO-230, this signal is identified as "VFB".
>
> Pin 6 - Identified as "0.5" going to the Counter Unit X54-1540-00

connector 1 pin 2. There is no connection to pin 6 for VFO-240, but
there is a connection in VFO-230 identified as "5.00".
>
> Pin 7 - This is a ground connection used to shield the "hot" vfo
signal lead.
>
> Pin 8 - Identified as "12" in the TS-530 and goes to several places
including the Counter Unit connector 1 pin 3, and the RF Unit
connector 6 pin 2. In VFO-240 this signal is identified as "14" and
provides power to PL1 and PL2. There is no connection to this pin in
VFO-230.
>
> I used the interconnection/schematic diagram for the TS-530S for the
above references because Kenwood drew it line-for-line , whereas the
TS-830 diagram draws one line for multiple conductors where you have
to follow all the "breakouts" to figure out where the conductors are
going which is a little more time consuming.
>
> It appears that you can use a 6 conductor cable if you only plan to
use the VFO-240, or a 7 conductor cable if you only plan to use the
VFO-230. But if you plan to use the same cable for either VFO, then
you will need to use 8 conductors. The VFO-240 is made to use with
either the TS-530S or TS-830S.
>
> This was an interesting exercise. Maybe it helped you a little.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, August 20, 2006 12:06 PM
> Subject: [TS-520_820_530_830] VFO-240 Cable
>
>
> Can anyone tell me if the cable used to connect the TS-830S to the
> External VFO-240 is just a STRAIGHT through cable with 8 Pin DIN
> connectors on each end ? I'm looking at the schematic for each and it
> looks as if it is, but I want to be sure before I make one up.
> Or, Does anyone have an extra cable for sale ?
> 73,
> Gordon
> N6WK
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9085. Re: TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 06:23:27 UTC
From: Clif
Topic: 7936 Message: 9085

--- In TS-520_820_530_830@yahoogroups.com, "Ron Hauser" <eichmann@...>
wrote:
>
> Replying to my own email... I did a bit more tracing today after the
> comments below. The output of the balance mixer, and specifically the
> output of Q6/Q7, is the same as the input to the driver tube... So I
have
> this discrepancy coming out of Q6/Q7. On 14110, about 1.5v RMS. On
7110
> about 1.5v RMS. On 10110, over 5v RMS. I'm working my way through the
> circuits around Q6/Q7, there has to be a component that has gone bad
that is
> messing up the bias on these perhaps? Anyone who has experience (or
just
> random ideas) I would appreciate your thoughts. I've never been
this deep
> in an electronic troubleshooting excersize before.
>
> Thanks!

Don't go back go forward. Think about it, 5v = no load after Q6-7. A
high reading indicates no load. Something is not there after the
mixers. Most likely a bad connection on a bandswitch.

Clif
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
> Sent: Saturday, August 26, 2006 9:03 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS830S No Drive on 30m
>
> Greetings Kenwood Gurus. About two months ago I was working along
with Joe
> Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO.
Bill
> helped get me set up with a VTVM, I eventually got an RF probe made, and
> finally I have done some testing.
>
> The problem:
>

> I have a TS830S that I got from the previous owner about a year ago.
There
> is no drive at all on 30m, no matter the position of the drive
control knob
> (also no RF out). All other bands produce drive (and I've had QSOs,
seem to
> be working fine). It receives just fine, I've listened to WWV and
various
> CW and digital QSOs on 30m. I have verified that the WARC bands
have been
> enabled by snipping wire #1 on connector #6 according to the manual.
I've
> tried lots of wiggling of the bandswitch, also poking carefully at the
> bandswitch contacts, also tested resistance on the bandswitch
contacts which
> are outside the finals cage. No wiggling ever gives a twitch of
drive, and
> all the contacts outside the finals cage show continuity. On
receive the
> drive control does peak the signal.
>
> Based on Joan's problem with a missing band, I tested C74 and L36 on
the RF
> board. I believe that both these components are ok -- L36 showed
right at
> the 4 ohms level Joan was looking for, and C74 is not shorted and
doesn't
> look burned or anything.
>
> I then took Joe's advice and attempted to measure the RF voltage on
the grid
> of the driver tube. I believe this is a promising path, but I must
first
> verify that I measured on the _correct_ pin. So. I have the radio
sitting
> right side up on the bench with the covers off, the RF board is
exposed and
> the driver tube is right there in the middle. I'm looking down at the
> tube/socket from above -- actually I am also looking at the board layout
> diagram in the service manual, which is the same orientation of
course. I'm
> a little fuzzy on the "proper" numbering order of the pins. But
anyway in
> this orientation the gap with no pins is at 9 oclock. There is a
pin at 8
> oclock, one at 7 oclock, one at five oclock. After staring at the
diagrams
> and thinking about it for a while, I believe the pin at 7 oclock is
the one
> that I want. So I put the rf probe on that pin and with the rig in

tune, I
> switched to send and indeed I got RF.
>
> Question #1. Am I on the right pin (or if not what am I measuring!?!)
>
> Question #2. If I am on the right pin, I have an interesting result,
> because the RF voltage is not the same. At 14110 kHz I got 1.5 V.
At 7110
> kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!
>
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
> Sent: Wednesday, June 07, 2006 11:05 PM
> To: 'joe sloss'
> Cc: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS830S No Drive on 30m
>
> Hi Joe, understood. I had come to a similar conclusion this
afternoon after
> our previous emails; a VTVM would be very handy right now. I'm going to
> proceed as recommended, I will build an RF probe to use with my DMM.
I will
> also keep an eye out on Ebay and the other sites for a VTVM which is
what I
> really need. Using whichever of those I get hold of first I'll start
> tracing as you recommended.
>
> To restate the problem for future reference: I have a TS830S that I got
> from the previous owner about 8 months ago. There is no drive at all on
> 30m. All other bands produce drive (and I've had QSOs, seem to be
working
> fine). It receives just fine, I've listened to WWV and various CW and
> digital QSOs on 30m. I have verified that the WARC bands have been
enabled
> by snipping wire #1 on connector #6 according to the manual. I've tried
> lots of wiggling of the bandswitch, also poking carefully at the
bandswitch
> contacts, also tested resistance on the bandswitch contacts which are
> outside the finals cage. No wiggling ever gives a twitch of drive,
and all
> the contacts outside the finals cage show continuity. On receive
the drive
> control does peak the signal. Therefore my current thinking is to
look for
> trouble somewhere besides the bandswitch, my best thought being to
check C74
> and L36 on the RF board as noted by Joan VK5KYO.

>
> I've changed the subject to more accurately reflect this issue, so
that it
> will be easier to find in the future. I will have some time to work
on the
> radio again tomorrow, then I'm out of town for vacation and for work
for a
> few weeks. I'm archiving all these conversations so that I'll be
able to
> come back to them.
>
> I appreciate your coaching.
>
> 73
> --Ron
> KC0TLN
>
>
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 8:51 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Ron: There are several Heath RF probes on ebay that could be
adapted to use
>
> with your DMM. Handiest thing in the world when you need one.
>
> The fact that your DRIVE control peaks a received signal tells me
that the
> BS and associated circuits on 30m may be OK.
>
> I was going to ask you to measure RF voltage at the grid of the
driver tube.
>
> Do this on 40 and 20 when you are in the TUNE position. Then check 30m.
>
> If you have about the same RF voltage then the 30m circuits BEFORE
the grid
>
> are working correctly. If the 30m voltage is lower or non-existant
then
> your problem is before the grid of the driver tube.
>
> Before I go too far you might refresh my memory as to the problem
you are
> having. I think I've deleted some of your earlier comments on what was
> wrong and what does what.

>
> Regards,
>
> Joe---- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 5:32 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
> > Joe, I do not have a VTVM but I have a digital multimeter... I
don't have
> > an
> > RF probe but have known I would end up needing to build one sooner or
> > later
> > since I've heard that question on the list quite a few times. HI.
I'm
> > reading a little web page about building an RF probe on the
internet N5ESE
> > 's page... Hmmm. My DMM has 1 meg input impedance, I have in my
junk box
> > some IN34A diodes, some 47K and some 10K resistors, and some
0.047uF caps.
> > I think I can get this together... Where are you going to send me
with it
> > then?
> >
> > :)
> >
> > -----Original Message-----
> > From: joe sloss [mailto:k7mks@...]
> > Sent: Wednesday, June 07, 2006 3:48 PM
> > To: Ron Hauser
> > Subject: Re: [TS-520_820_530_830] TS830S low power
> >
> > Do you have a VTVM with a very .low scale or a DVM? How about a
RF probe?
> >
> > Joe
> > ----- Original Message -----
> > From: "Ron Hauser" <eichmann@...>
> > To: "'joe sloss'" <k7mks@...>
> > Sent: Wednesday, June 07, 2006 12:51 PM
> > Subject: RE: [TS-520_820_530_830] TS830S low power
> >
> >
> >> Hi Joe. I have done the poke-and-wiggle on the wafers outside
the finals
> >> cage. I also have put the switch on 30m (the problem band) and
ohmed the

> >> contacts on all the wafers outside the finals cage. They all
show very
> >> low
> >> ohms, like 1... All these bandswitches have also had a deoxit
treatment.
> >> Thus I am leaning away from the bandswitch area. However, I
happen to be
> >> working at home today and so I just went over to the bench and
did your
> >> test
> >> of peaking received signals -- the drive control definitely does
peak the
> >> crystal calibrator on 30m. (I'm new to these repairs, so where
are you
> >> heading with this?)
> >>
> >> Thanks!
> >> 73
> >> --Ron
> >> KC0TLN
> >>
> >> -----Original Message-----
> >> From: joe sloss [mailto:k7mks@...]
> >> Sent: Wednesday, June 07, 2006 2:27 PM
> >> To: eichmann@...
> >> Subject: Re: [TS-520_820_530_830] TS830S low power
> >>
> >>
> >> Ron:
> >>
> >> Does the drive control peak received signals (ie crystal
calibrator) on
> >> 30m?
> >>
> >> When checking for Drive on 30m take an insulated rod or alignment
tool
> >> and
> >> VERY GENTLY push ever-so-slightly on each bandswitch wafer
excdept the
> >> one
> >> in the final cage.
> >>
> >> Another idea might be to check for Drive by pulling or pushing the
> >> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
> >>
> >> If drive returns when doing any of the above you might suspect
that one
> >> of
> >> the switch contacts is not making a connection. The 530 and 830
used a

> >> copper trace and silver connector held together with a tin
rivit. This
> >> whole assembly can work is way loose after years of use or can
develop
> >> corrosion due to 3 different metals in contact with each other,.
> >>
> >> Regards,
> >>
> >> Joe k7mks .
> >>
> >
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>

9086. TS-820 Finals draw excessive current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 10:53:11 UTC
From: n9wb
Topic: 9086 Message: 9086

Mike:
Does the tube draw current by the light bulb test if the SG switch is OFF ?
If not I think that before you buy another set of tubes, unless you just want them as spares, we need to check your control grid bias.

Go to the bottom of the board called the Final Unit. That is the board that the tube sockets are on. There is a point called FG. (do NOT confuse this with SG) Turn the rig on with the SG switch off. Measure the voltage at FG. This should be a MINUS voltage probably around -100v on receive.

If it is not there, locate the RF board. This is the board that the 12BY7 is on. Locate Q5. It is a 2s1515. Remove it and check it.

To check a transistor with an ohm meter:

The 2sc1515 is an NPN transistor. In your lowest ohms setting, connect the black lead to the base of the transistor. Connect the red lead first to the emitter and then to the collector lead of the transistor. The ohm meter should show continuity (low ohms) from the base to the emitter and from the base to the emitter.

Now place the Red lead to the base and The black lead first to the emitter and then to the collector. This time you should read an open circuit.

Now, to those of you who think this seems backwards, most ohm meters have the positive source on the black wire and the return to the meter on the red wire when in the ohms position. The operative work is MOST. So if you get the exact opposite response as above don't worry about it. Also a PnP transistor will check the opposite way.

If you have low ohms both ways from the base to either transistor lead, the transistor is shorted. If it checks open both ways it is open.

Gordon, seems to me that we have been to this rodeo before.

So Mike, if the rig draws excessive current with the SAG switch off, stop and get back with us.
If it does not draw excessive current with the SAG switch OFF, proceed checking as above.

Now for the educational part of today's show:

Explanation Of Control (g1) bias.

Most tubes will draw lots of current if the control grid is at ground potential or near the same potential as the cathode. We place negative bias voltage on this grid to stop the grid from conducting. This is sometimes called Grid Block.

When we transmit we want the tubes to draw 60 ma but no more when there is no RF drive such as is the case when keyed on SSB with no modulation. So we reduce the negative voltage to a lower negative number until the tube is allowed to draw the needed 60 MA. This is done with the bias control and is what you are doing when you set the idle current.

If the minus voltage is not present due to some failure, the tube will draw a lot of current and self destruct.

For those who are working on their general, some olde tube type CW transmitters turned transmit stages off by using Grid Blocking and removed this Grid Block when the key was down allowing a signal for CW operation. This is called Grid Block Keying.

Vy 73, Walt N9WB

----- Original Message -----
From: Mike Freeman
To: 'n9wb'
Sent: Sunday, August 27, 2006 2:37 PM
Subject: RE: tubes

I put the $5 tubes in and fired up the radio. The light in the tester still gets real bright after 10 seconds when the heaters are turned on and the SG is on. Either I bought a bad set of tubes which is very possible or there is a short somewhere else. I unsoldered the 10 Ohm resistors and they both tested 10 Ohm out of circuit. I also put the Ohm meter across all the high voltage caps and they did not show a short. I looked around the entire radio and can not find any burnt components. Is there anything else I should check? Perhaps I just need to buy a known good set of 6146B's before going on?

I did look at the file in the files section entitled "checking 6146's" with an ohm meter. I did all the checks and all the tubes passed, even the melted one.

Mike
KC8QNO

FYI: Mike found a set of tubes that seem new for $5.00
Walt N9WB

9087. Re: [TS-520_820_530_830] TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 11:41:30 UTC
From: n9wb
Topic: 7936 Message: 9087

Ron:
You need two signals to the mixer Q6 and Q7. One is the VCO signal, the other is the signal from TIF. TP 5 is a place to check for the VCO signal. The VCO feeds T3, the IF feeds T4. The balanced mixer mixes these two to get the fundamental output. Are both signals present ? Can you hear it send a carrier on a nearby receiver? Must be in CW or Tune of course.

Vy 73, Walt N9WB

----- Original Message -----
From: Ron Hauser
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 27, 2006 8:29 PM
Subject: RE: [TS-520_820_530_830] TS830S No Drive on 30m

Replying to my own email... I did a bit more tracing today after the comments below. The output of the balance mixer, and specifically the output of Q6/Q7, is the same as the input to the driver tube... So I have this discrepancy coming out of Q6/Q7. On 14110, about 1.5v RMS. On 7110 about 1.5v RMS. On 10110, over 5v RMS. I'm working my way through the circuits around Q6/Q7, there has to be a component that has gone bad that is messing up the bias on these perhaps? Anyone who has experience (or just random ideas) I would appreciate your thoughts. I've never been this deep in an electronic troubleshooting excersize before.

Thanks!
73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Saturday, August 26, 2006 9:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Greetings Kenwood Gurus. About two months ago I was working along with Joe Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO. Bill helped get me set up with a VTVM, I eventually got an RF probe made, and finally I have done some testing.

The problem:

I have a TS830S that I got from the previous owner about a year ago. There is no drive at all on 30m, no matter the position of the drive control knob (also no RF out). All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various

CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal.

Based on Joan's problem with a missing band, I tested C74 and L36 on the RF board. I believe that both these components are ok -- L36 showed right at the 4 ohms level Joan was looking for, and C74 is not shorted and doesn't look burned or anything.

I then took Joe's advice and attempted to measure the RF voltage on the grid of the driver tube. I believe this is a promising path, but I must first verify that I measured on the _correct_ pin. So. I have the radio sitting right side up on the bench with the covers off, the RF board is exposed and the driver tube is right there in the middle. I'm looking down at the tube/socket from above -- actually I am also looking at the board layout diagram in the service manual, which is the same orientation of course. I'm a little fuzzy on the "proper" numbering order of the pins. But anyway in this orientation the gap with no pins is at 9 oclock. There is a pin at 8 oclock, one at 7 oclock, one at five oclock. After staring at the diagrams and thinking about it for a while, I believe the pin at 7 oclock is the one that I want. So I put the rf probe on that pin and with the rig in tune, I switched to send and indeed I got RF.

Question #1. Am I on the right pin (or if not what am I measuring!?!)

Question #2. If I am on the right pin, I have an interesting result, because the RF voltage is not the same. At 14110 kHz I got 1.5 V. At 7110 kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Wednesday, June 07, 2006 11:05 PM
To: 'joe sloss'
Cc: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and

digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are having. I think I've deleted some of your earlier comments on what was wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM

Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?
>
> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.
>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]

>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power
>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one
>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a
>> copper trace and silver connector held together with a tin rivit. This
>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

Yahoo! Groups Links

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

9088. Re: VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 11:01:14 UTC
From: max_ve3tmt
Topic: 8867 Message: 9088

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:

I'm waiting on some replacement band switch couplers, then I'm going
to sell this 830 andVFO-240 to buy some more rigs to work on.

Gordon,

Just curious where you got the couplers from. An old trick I use is to
buy a piece of 1/4" aquarium hose and the smallest compression clamps
you can find. Cut the hose to length giving about 1/2" on each side of
coupling and put one compression clamp to each shaft. Not as pretty as
a new coupler but works just fine.

Max VE3TMT

9089. Re: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 12:54:36 UTC
From: n9wb
Topic: 9057 Message: 9089

Actually, the Master Guru is Bill K0ZL.

You and Gordon are getting real sharp with these rigs. I am pleased to see that this Yahoo Group is proving that Hams can be more than just appliance operators who are dependent on the UPS man for repairs.

There are also many others here that we all learn a lot from that have a great deal of electronic knowledge..

In the early days, hams had Elmers in their area that helped them. I had Elmers when I was young. What these Elmers didn't realize at the time, is that they taught me a skill that would pay my bills for the rest of my life. In our fast pace world one on one local Elmering is not as easy as it once was. But with the internet, Hams can get together with Elmers all over the world. If a little help is available, it is not so scary to attempt a repair. I am a person who learns best by doing. I think a lot of us are.

I thank every member for their contribution of knowledge, big or small. This is like a big worldwide Kenwood think tank. I sure am learning a lot!

BTW, this little group has 1054 members.

There must be a lot of these Kenwood Hybrids out there still in use. Every day my respect for this generation of rigs increases. I wonder how many of the rigs manufactured today will still be around and operating in 30 years ?

Vy 73, Walt N9WB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 27, 2006 9:50 PM
Subject: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Walt, Mr. Guru of the Kenwood,

Once again, you've explained it far better than I could have. Many
Thanks.

73,
Ellen - AF9J

P.S. - as you well know, neutralization is a non-event, if done
properly. I had no problems neutralizing mine (it's just tedious to
do). Now she's humming along sweetly at 100-115W output (depending
upon the band).

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Mike and others:
>
> With push-pull amplifiers such as with tube type guitar amplifiers
balance
> between the tubes is very important. Each tube produces one half
cycle of
> the audio waveform and if one is different from the other, the
waveform will
> be unbalanced causing distortion. Sometimes these tubes have
individual bias
> adjustments, In other amplifier designs, there is a balance pot
that tilts
> the bias a bit more to one tube or the other to exactly balance the
tubes
> even if they are a matched pair. This is usually done by placing a
tone that
> is a sine wave through the amplifier and the balance or bias is
adjusted for
> minimum distortion as observed on the output with an oscilloscope.
>
> Our rigs have tubes in parallel instead of push pull. Exact balance
is not
> nearly so critical as with push-pull but it is helpful and the
closer the
> tubes are balanced, the cleaner will be the signal that is produced.
>
> If the tubes are not balanced, the 60 ma bias will actually be a
compromise
> between these tubes. For example, one tube may draw 40 ma and the
other 20
> ma for the total of 60 ma instead of 30 ma each. This means that
one or both
> of the tubes will not be biased to the optimum linearity point.
There is
> considerable allowable tolerance in this before the problem will be
> noticeable.
>
> Another problem that this will cause is that the stronger tube will
be doing
> more work and running hotter causing faster degradation. Again, a
slight
> imbalance is not critical but a great imbalance can be troublesome.
>
> It is possible to use unmatched tubes but it is better to use tubes
that are
> of the same manufacture, look exactly alike inside and check close
to the
> same on a tube checker. Even better is a matched pair.
>

> Tubes have some natural capacitance between the elements. Of
particular
> concern is that capacitance between the plate and the grid. With
6146/S2001
> types, this has little effect on lower frequencies such as 80
meters, but as
> frequencies increase to 20,15, and 10 meters, this can be
troublesome
> resulting in reduced output and sometimes self oscillation or
parasitic
> emissions.
>
> To compensate for this, a capacitive network is intentionally
placed
> between the plate and the grid circuit that provides feedback that
is 180
> degrees out of phase with the feedback caused by the inter-electrode
> capacitance. This equal and opposite value neutralizes or cancels
the
> original inter-electrode capacitance.
>
> With the TS-820 and other similar Kenwood hybrids, there is a
switch on the
> back that changes the positive screen bias to a negative voltage.
This shuts
> the finals current flow off and they will not amplify thus
providing a
> convenient method of neutralization. Any remaining signal on the
output is
> signal from the driver that is leaking through by way of the final
tube's
> inter-electrode capacitance. If we adjust the neutralization
capacitor with
> the SG switch off while observing the output on a scope or other
sensitive
> device, we can nudge the neutralization adjustment until there is
little of
> any signal leaking through.
>
> There are other methods of doing this, but since Mike has a 30 MHz
scope,
> this will be the easiest for him.
>
> The inter-electrode capacitance of the tubes in parallel is the sum
of the
> total for both tubes. The Control grids are in parallel, and the
plates are
> in parallel. Balance is not a factor from a neutralization
standpoint. You
> are not balancing the tubes by neutralizing, you are canceling out

the sum
> inter-electrode capacitance of these tubes.
>
> There is a specified frequency upon which neutralization should be
> performed. This is different between different models of rigs. The
TS-820
> (s) specifies a frequency of 21.300 MHz. To neutralize with a
scope, tune up
> the rig near 21.300 into a dummy load. Turn the SG switch off and
connect a
> coax T connector to the rig output or dummy load input so the rig
is feeding
> the dummy load through the T connector. Using a scope probe,
connect the
> scope to the open terminal of the T connector and the scope probe
ground
> lead to the connector ground. Key the rig on CW with the Car.
control fully
> up (Clockwise) and observe the RF carrier signal that will appear
as a wide
> bar on the scope. Nudge the neutralization capacitor until the
signal is at
> minimum. Keep increasing the vertical gain on the scope until you
can see
> that you are indeed at minimum.
>
> Unkey the rig and remove the scope probe before turning the SG
switch back
> on.
>
> The depth of the neutralization will often not be as deep on other
bands as
> it will be on the specified neutralization frequency, in this case
21.300
> MHz. This is normal with multi-band rigs.
>
> The cover must be left on the final cage and it is best to use an
insulated
> tool for adjusting the neutralization capacitor. However, I
sometimes have
> experience problems that the capacitor is so stiff that the tool
breaks
> before the capacitor will turn.
>
> As an alternative, find a proper size screwdriver with a well
insulated
> handle. Do not use wood because it can absorb moisture and become a
> conductor. Ouch!
> Place two layers of shrink tubing or good quality electrical tape
around the

> shaft down to the blade. This is to prevent the shaft from shorting
out on
> the edge of the access hole. Nudge the capacitor a bit at a time
one way or
> the other and remove it. Observe the scope to see if the signal has
> increased or decreased. Continue a nudge at a time in the direction
that
> brings you to the minimum point, removing the tool each time you
check the
> scope. When you have found the minimum point, it is neutralized.
>
> There is another way to neutralize by observing the characteristics
of the
> dip on the IP meter and the output peak with the SG switch on..
Since Mike
> has a scope, I am describing the scope method at this time.
>
> Vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 26, 2006 11:41 PM
> Subject: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A -
> 6416B -6416W operating in Class AB1)
>
>
> Hi Dave,
>
> Nope, you have it quite right. I realized that after I write my
> message. It's just that it seems to be easier to reduce this
> capacitance in a matched set. When you've reached the null point,
> you've eliminated the oscillation (or at least reduced the
> oscillation to an extremely low level, where it won't cause
> problems).
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "tetrodehead"
> <dave.crooks@> wrote:
> >
> > Hi Ellen and all,
> > My poor understanding of the neutralizing process is that it
> reduces
> > coupling through plate - grid capacitance to a minimum, thereby
> > reducing the probability of oscillation.

> >
> > I can't see that neutralizing can balance the load between
> parallelled
> > tubes.
> >
> > I am no expert and may be barking up the wrong tree!
> > Would a tube expert please clarify.
> >
> > Thanks
> > Dave F4EYK
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

9090. Re: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 12:24:46 UTC
From: David Rust
Topic: 9057 Message: 9090

I wonder how many of the rigs manufactured today will still be around and operating in 30 years ?

Walt, I have thought this same thing. There must be a bunch. I saw a half dozen at the Joplin, Mo. hamfest last Saturday, in various states of disrepair. A couple went for $75. for parts or repair, and then some were pretty pricey (and didn't sell). Several folks mentioned they were good ole radios and still were. So, lets hope they keep on going and going and going......
73 Dave W0DLR

[Non-text portions of this message have been removed]

9091. Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 13:58:48 UTC
From: digs4ruff
Topic: 9057 Message: 9091

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

I wonder how many of the rigs manufactured today will still be around
and operating in 30 years ?
Vy 73, Walt N9WB
>
>
Walt
My concern is more like how many of the operator/owners will be able
to remember what all the buttons do 30 years from now.
regards
Barry
VA7GEM

9092. Re: [TS-520_820_530_830] Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 15:58:25 UTC
From: Max Harelik
Topic: 9057 Message: 9092

" My concern is more like how many of the operator/owners will be able to remember what all the buttons do 30 years from now." <snip>

Some of us (Ahem, myself included) have trouble figuring out what the buttons do today (much less years in the future). Most of what we call radios are actually computers that happen to have an RF output. Steep learning curve for us oldtimers. And from my perspective, hamming is not as near much fun when the machine does it all for me. Guess that's why I like the old rigs so much.

73,
Max, K5OVW

9093. Re: Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 16:52:47 UTC
From: mikefr24
Topic: 9057 Message: 9093

I can tell you from a new ham perspective (I'm 28 yrs old and been a ham for 5 yrs). I really like this old TS-820S and I have never even used it. It looks like a real radio and it has vacuum tubes which fascinate me. I can't wait to get it fixed so I can try it out and I wanted to learn something about RF. I could not think of a better way than to buy a broken old radio. Once I get this fixed and working, I plan on buying an Elecraft K2 this winter. Building my own radio sounds like a ton of fun.

--- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...> wrote:
>
> " My concern is more like how many of the operator/owners will be able
> to remember what all the buttons do 30 years from now." <snip>
>
> Some of us (Ahem, myself included) have trouble figuring out what the
> buttons do today (much less years in the future). Most of what we call
> radios are actually computers that happen to have an RF output. Steep
> learning curve for us oldtimers. And from my perspective, hamming is not
> as near much fun when the machine does it all for me. Guess that's why I
> like the old rigs so much.
>
> 73,
> Max, K5OVW
>

9094. RE: [TS-520_820_530_830] Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 16:53:47 UTC
From: Hauser, Ron M.
Topic: 9057 Message: 9094

As a new ham, licensed for not quite two years, I find that I am learning a lot both by operating and by working on these radios. My first radio was an IC706 which is a very nice radio and is now in my van. But after operating and working on my Kenwoods, I have a much better understanding about what those menu options and buttons are _actually_doing_ to the signal in my IC706. Everybody can choose which areas they wish to study, what they want to learn... So some people may choose to be hams and not learn all the intricacies of their radios. I feel very lucky to have these radios, and the email-elmers in this group to make it easy to get down into the intimate details for those of us who wish to!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Max Harelik
Sent: Monday, August 28, 2006 10:58 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Longevity

" My concern is more like how many of the operator/owners will be able to remember what all the buttons do 30 years from now." <snip>

Some of us (Ahem, myself included) have trouble figuring out what the buttons do today (much less years in the future). Most of what we call radios are actually computers that happen to have an RF output. Steep learning curve for us oldtimers. And from my perspective, hamming is not

as near much fun when the machine does it all for me. Guess that's why I

like the old rigs so much.

73,
Max, K5OVW

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by

it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

9095. Got my new TS-830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 18:56:21 UTC
From: max_ve3tmt
Topic: 9095 Message: 9095

Took possession of a very clean TS830 with AT230 and SP230 today. Rig is in excellent shape and has the optional CW filters in it. Will pop the covers off today after work and blow it all out and check the goodies. Will be putting the 3 khz SSB filter over the next couple of days. I'm looking for the matching VFO-230 or VFO-240 if anyone has one available.

Max

9096. no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 12:12:12 UTC
From: jon_77449
Topic: 9096 Message: 9096

Drive tube is fine,IP meter shows 0ma in tune position and no rf out.ALC meter is 1/4 scale at most and does'nt seem to move.In CW mode I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV meter.Q4 & Q5 both show about 1volt low on their drain in TX & RX. All other transistors seem to check ok with the voltages listed in the manual. Please help I running out of ideas.
Jon

9097. ts830m feedback and new question regarding transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 20:21:50 UTC
From: budgiebob2005
Topic: 9097 Message: 9097

hi again I posted a slack tuning knob on a TS830 M rig i have repaired/restored .I had a few replies to say that most 830s had this feel . Well I took the vfo to a friend who spends his hobby time turning in metal and model building for a opinion . In short he cut a piece of quarter inch ally plate Reamed this to be a snug fitt on shaft and this was bolted to front off v f o [countersink existing srew fixings to allow plate to lay flat] and remount vfo front. feels solid and turns ok . not a purist soloution but a good fix!.

I want to use a microwave modules 2 meter transverter, feeding this from the 830 skt at rear . What drive power at 28mhz is availiable and what else is on the skt ?. the m m convertor requires less than /no more than 1watt. regards bob G8ACQ

9098. Re: [TS-520_820_530_830] Re: Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 21:23:50 UTC
From: David Rust
Topic: 9057 Message: 9098

Mikefr24, just DO NOT get across the high voltage on the radio. It packs a lethal and fatal punch.

Read all about the radio in the Operators Manual before you ever take the top off. Its not a 12 volt radio. You may know more about the radio than I do at this point, however, just a word of caution.

I let some stuff fall across the high voltage on an old Swan one time years ago, and it shorted and I thought a volcano had erupted in the shack.
73
Dave W0DLR

[Non-text portions of this message have been removed]

9099. Re: [TS-520_820_530_830] Re: Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 22:20:52 UTC
From: John Harp
Topic: 9057 Message: 9099

Yes and your absolutely right about that, Mike. Thank You for the reminder. I've been bit and I kmow what it feels like. I got it from a flyback transformer on a large old television set in a wooden cabinet. It knocked me to the floor.

That's why my one linear has a switch that when you open the PA Box while the power is on it shorts the plate on bypass instantly.

I learned over the years to use one hand in my pocket technique. I prefer someone in the room in case something happens. They kind of get annoyed with me, especially when they can't figure out what I'm talkin about, but usually I'm talkin to myself any way. So long as they get me off that power some how. That's alot of the battle. Then comes the revival.

Many times I got bit. Just the three or four days ago I got bit by 220 again, trying to remove a breaker in a box. I get reminded every now and again. That's why when I'm around some one who's taking that same chance, I stick around. One of the first things I look for is a broom handle or some wooden handle, something insulated. Only had to it once. Guy dropped a screwdriver in a broadcast transmitter we were testing. Blew a big hole right thru his hand and out his elbow. After that, I stopped drawing arcs for laughs with a screwdriver back several feet off the load-line.

I've also seen sparks fly down a multi-pass acryl-tower when the heating elements shorted on 440. hot metal and pieces of ceramic and asbestos everywhere. Jumped right thru a shower of sparks like a waterfall to get out of there.

I've seen power on electric poles jump the insulator and run down the pole and start a field fire. The lines fell down and struck large rocks shattering them into tiny pieces in a huge explosion every time the line bounced to the ground. Like a hanging snake.

And lightning. within 15 feet of me. A sonic boom, like a shock wave for at least 30 feet around. How I survived that as a kid I'll never know. I ran from that barn and the buzz as that bolt hit behind me where I was as my mom looked on, Mom beat the crap out of me for that one.

Yes I always take it well when someone reminds me. It seems I'm always the one out on point. Thanks again.

l.net> wrote:
Mikefr24, just DO NOT get across the high voltage on the radio. It packs a lethal and fatal punch.

Read all about the radio in the Operators Manual before you ever take the top off. Its not a 12 volt radio. You may know more about the radio than I do at this point, however, just a word of caution.

I let some stuff fall across the high voltage on an old Swan one time years ago, and it shorted and I thought a volcano had erupted in the shack.
73

Dave W0DLR

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9100. Re: [TS-520_820_530_830] no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:16:33 UTC
From: n9wb
Topic: 9096 Message: 9100

Jon:
What happens on the ALC meter if you try to peak the drive control? Be sure that the car is all the way up. Are the final tube filaments lighted? What about the 12BY7 ? Turn the lights off and look closely. If you have the cover off the final section, be careful, there is 800V in there even on receive.

Go to SSB and key rig. Observe the IP meter while moving the bias control from one extreme to the other.
After you do these checks, we will come up with some more ideas. Do you have a volt/ohm meter ?

Vy 73, Walt N9WB

----- Original Message -----
From: jon_77449
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 28, 2006 7:12 AM
Subject: [TS-520_820_530_830] no/low TX on TS-520

Drive tube is fine,IP meter shows 0ma in tune position and no rf
out.ALC meter is 1/4 scale at most and does'nt seem to move.In CW mode
I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV meter.Q4
& Q5 both show about 1volt low on their drain in TX & RX. All other
transistors seem to check ok with the voltages listed in the manual.
Please help I running out of ideas.
Jon

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

9101. Re: [TS-520_820_530_830] Re: Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:08:37 UTC
From: John Harp
Topic: 9057 Message: 9101

Ya knoiw Mike I took a pair of 572B's to work with me a year ago, and I pulled them uot of the box to show to a 19 yearold girl. She hadn't a clue what it was. You shouls have seen her face. She's only once heard of this thing called a tube by her grandfather.

mikefr24 <mikefr24@...> wrote: I can tell you from a new ham perspective (I'm 28 yrs old and been a
ham for 5 yrs). I really like this old TS-820S and I have never
even used it. It looks like a real radio and it has vacuum tubes
which fascinate me. I can't wait to get it fixed so I can try it
out and I wanted to learn something about RF. I could not think of
a better way than to buy a broken old radio. Once I get this fixed
and working, I plan on buying an Elecraft K2 this winter. Building
my own radio sounds like a ton of fun.

--- In TS-520_820_530_830@yahoogroups.com, Max Harelik
<mharelik@...> wrote:
>
> " My concern is more like how many of the operator/owners will be
able
> to remember what all the buttons do 30 years from now." <snip>
>
> Some of us (Ahem, myself included) have trouble figuring out what
the
> buttons do today (much less years in the future). Most of what we
call
> radios are actually computers that happen to have an RF output.
Steep
> learning curve for us oldtimers. And from my perspective, hamming
is not
> as near much fun when the machine does it all for me. Guess that's
why I
> like the old rigs so much.
>
> 73,
> Max, K5OVW
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9102. RE: [TS-520_820_530_830] Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:01:32 UTC
From: John Harp
Topic: 9057 Message: 9102

Well actually your getting to learn the pros and cons of both the tube vintage era, and the solid-state by these examples. The solid-state which is portable with it's many menus on some and a SWR that's a little more sensitive despite mobility and portability. On the other hand you get to see the tube world, which has The ability to accept little higher SWR for slightly less efficiency despite having to re-tune.It also must stick to the AC mains a little closer unlike it's 12 volt counterpart.
The best part about it all I believe is the fact that you will see something in history that probably commercially, will never occur again.The hybrid, a merger of the two technologies; actually working as a team to produce an effective communications medium. We could look back and say yes we could improve this and maybe that could make it work better. But it's not like the things that come back out of nostalgia. Kenwwod will never make an updated version and do away with mechanical bandswitches or better power regulation than say some of the newer models any digital additions will be aftermarket product add-ons. It'll never run CAT via PC.
It's not the same Harley you turned every nut and bolt to keep it tight, and it's not the revival of the folksvagen. You're experiencing a part of history here, every time you send a good clean signal on the air it keeps that good reputation that has been known year in and year out.Spark gap may no longer be on the air, CW is now something only we Hams use. Even the transistor passed now by new technology making it as obsolete as 8-track tape players. But you are there to man's improvements with each dawning day. It's like a museum will someday put our display up too, in a day and age when noone will remember if a studebaker was a foreign or domestic car.

"Hauser, Ron M." <eichmann@...> wrote:
As a new ham, licensed for not quite two years, I find that I am
learning a lot both by operating and by working on these radios. My
first radio was an IC706 which is a very nice radio and is now in my
van. But after operating and working on my Kenwoods, I have a much
better understanding about what those menu options and buttons are
_actually_doing_ to the signal in my IC706. Everybody can choose which
areas they wish to study, what they want to learn... So some people may
choose to be hams and not learn all the intricacies of their radios. I
feel very lucky to have these radios, and the email-elmers in this group
to make it easy to get down into the intimate details for those of us
who wish to!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Max Harelik
Sent: Monday, August 28, 2006 10:58 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Longevity

" My concern is more like how many of the operator/owners will be able to remember what all the buttons do 30 years from now." <snip>

Some of us (Ahem, myself included) have trouble figuring out what the buttons do today (much less years in the future). Most of what we call radios are actually computers that happen to have an RF output. Steep learning curve for us oldtimers. And from my perspective, hamming is not

as near much fun when the machine does it all for me. Guess that's why I

like the old rigs so much.

73,
Max, K5OVW

Yahoo! Groups Links

This transmission is intended for the sole use of the individual and entity to whom it is addressed. Privileged and confidential information may be contained in this message. You are hereby notified that any dissemination, distribution, or duplication of this transmission by someone other then the intended addressee or its designated agent is strictly prohibited.
Opinions, conclusions and other information in this message that do not relate to the official business of my organization shall be understood as neither given nor endorsed by it.
If your receipt of this transmission is in error, please notify this company immediately by reply to this transmission.

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9103. Re: [TS-520_820_530_830] Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:21:34 UTC
From: John Harp
Topic: 9057 Message: 9103

Or if the the menus still work.

digs4ruff <digs4ruff@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

I wonder how many of the rigs manufactured today will still be around
and operating in 30 years ?
Vy 73, Walt N9WB
>
>
Walt
My concern is more like how many of the operator/owners will be able
to remember what all the buttons do 30 years from now.
regards
Barry
VA7GEM

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9104. Re: [TS-520_820_530_830] Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:20:19 UTC
From: John Harp
Topic: 9057 Message: 9104

Who's more likely to be on the air; the guy with these rigs and lot of spare parts that can fix the radio or the guy who got rid of the computer because the bios battery died and he couldn't get back in his hard drive.

Max Harelik <mharelik@...> wrote: " My concern is more like how many of the operator/owners will be able
to remember what all the buttons do 30 years from now." <snip>

Some of us (Ahem, myself included) have trouble figuring out what the buttons do today (much less years in the future). Most of what we call radios are actually computers that happen to have an RF output. Steep learning curve for us oldtimers. And from my perspective, hamming is not as near much fun when the machine does it all for me. Guess that's why I like the old rigs so much.

73,
Max, K5OVW

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9105. Re: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:28:34 UTC
From: John Harp
Topic: 9057 Message: 9105

That's why I stay here. Like each piece of a puzzle makes a good picture. Like a team we all have our given gift and the combination however large or small, produces a winning solution. We have to take care of our group. There's not much to the alternative. Where somtimes one may have a knowledge or even several. But also you may find the parts you need.

n9wb <n9wb@...> wrote: Actually, the Master Guru is Bill K0ZL.

You and Gordon are getting real sharp with these rigs. I am pleased to see that this Yahoo Group is proving that Hams can be more than just appliance operators who are dependent on the UPS man for repairs.

There are also many others here that we all learn a lot from that have a great deal of electronic knowledge..

In the early days, hams had Elmers in their area that helped them. I had Elmers when I was young. What these Elmers didn't realize at the time, is that they taught me a skill that would pay my bills for the rest of my life. In our fast pace world one on one local Elmering is not as easy as it once was. But with the internet, Hams can get together with Elmers all over the world. If a little help is available, it is not so scary to attempt a repair. I am a person who learns best by doing. I think a lot of us are.

I thank every member for their contribution of knowledge, big or small. This is like a big worldwide Kenwood think tank. I sure am learning a lot!

BTW, this little group has 1054 members.

There must be a lot of these Kenwood Hybrids out there still in use. Every day my respect for this generation of rigs increases. I wonder how many of the rigs manufactured today will still be around and operating in 30 years ?

Vy 73, Walt N9WB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, August 27, 2006 9:50 PM
Subject: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Walt, Mr. Guru of the Kenwood,

Once again, you've explained it far better than I could have. Many
Thanks.

73,
Ellen - AF9J

P.S. - as you well know, neutralization is a non-event, if done properly. I had no problems neutralizing mine (it's just tedious to do). Now she's humming along sweetly at 100-115W output (depending upon the band).

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Mike and others:
>
> With push-pull amplifiers such as with tube type guitar amplifiers balance
> between the tubes is very important. Each tube produces one half cycle of
> the audio waveform and if one is different from the other, the waveform will
> be unbalanced causing distortion. Sometimes these tubes have individual bias
> adjustments, In other amplifier designs, there is a balance pot that tilts
> the bias a bit more to one tube or the other to exactly balance the tubes
> even if they are a matched pair. This is usually done by placing a tone that
> is a sine wave through the amplifier and the balance or bias is adjusted for
> minimum distortion as observed on the output with an oscilloscope.
>
> Our rigs have tubes in parallel instead of push pull. Exact balance is not
> nearly so critical as with push-pull but it is helpful and the closer the
> tubes are balanced, the cleaner will be the signal that is produced.
>
> If the tubes are not balanced, the 60 ma bias will actually be a compromise
> between these tubes. For example, one tube may draw 40 ma and the other 20
> ma for the total of 60 ma instead of 30 ma each. This means that one or both
> of the tubes will not be biased to the optimum linearity point. There is
> considerable allowable tolerance in this before the problem will be
> noticeable.
>
> Another problem that this will cause is that the stronger tube will be doing
> more work and running hotter causing faster degradation. Again, a slight
> imbalance is not critical but a great imbalance can be troublesome.

>
> It is possible to use unmatched tubes but it is better to use tubes
that are
> of the same manufacture, look exactly alike inside and check close
to the
> same on a tube checker. Even better is a matched pair.
>
> Tubes have some natural capacitance between the elements. Of
particular
> concern is that capacitance between the plate and the grid. With
6146/S2001
> types, this has little effect on lower frequencies such as 80
meters, but as
> frequencies increase to 20,15, and 10 meters, this can be
troublesome
> resulting in reduced output and sometimes self oscillation or
parasitic
> emissions.
>
> To compensate for this, a capacitive network is intentionally
placed
> between the plate and the grid circuit that provides feedback that
is 180
> degrees out of phase with the feedback caused by the inter-electrode
> capacitance. This equal and opposite value neutralizes or cancels
the
> original inter-electrode capacitance.
>
> With the TS-820 and other similar Kenwood hybrids, there is a
switch on the
> back that changes the positive screen bias to a negative voltage.
This shuts
> the finals current flow off and they will not amplify thus
providing a
> convenient method of neutralization. Any remaining signal on the
output is
> signal from the driver that is leaking through by way of the final
tube's
> inter-electrode capacitance. If we adjust the neutralization
capacitor with
> the SG switch off while observing the output on a scope or other
sensitive
> device, we can nudge the neutralization adjustment until there is
little of
> any signal leaking through.
>
> There are other methods of doing this, but since Mike has a 30 MHz
scope,
> this will be the easiest for him.
>

> The inter-electrode capacitance of the tubes in parallel is the sum
of the
> total for both tubes. The Control grids are in parallel, and the
plates are
> in parallel. Balance is not a factor from a neutralization
standpoint. You
> are not balancing the tubes by neutralizing, you are canceling out
the sum
> inter-electrode capacitance of these tubes.
>
> There is a specified frequency upon which neutralization should be
> performed. This is different between different models of rigs. The
TS-820
> (s) specifies a frequency of 21.300 MHz. To neutralize with a
scope, tune up
> the rig near 21.300 into a dummy load. Turn the SG switch off and
connect a
> coax T connector to the rig output or dummy load input so the rig
is feeding
> the dummy load through the T connector. Using a scope probe,
connect the
> scope to the open terminal of the T connector and the scope probe
ground
> lead to the connector ground. Key the rig on CW with the Car.
control fully
> up (Clockwise) and observe the RF carrier signal that will appear
as a wide
> bar on the scope. Nudge the neutralization capacitor until the
signal is at
> minimum. Keep increasing the vertical gain on the scope until you
can see
> that you are indeed at minimum.
>
> Unkey the rig and remove the scope probe before turning the SG
switch back
> on.
>
> The depth of the neutralization will often not be as deep on other
bands as
> it will be on the specified neutralization frequency, in this case
21.300
> MHz. This is normal with multi-band rigs.
>
> The cover must be left on the final cage and it is best to use an
insulated
> tool for adjusting the neutralization capacitor. However, I
sometimes have
> experience problems that the capacitor is so stiff that the tool
breaks
> before the capacitor will turn.

>
> As an alternative, find a proper size screwdriver with a well
insulated
> handle. Do not use wood because it can absorb moisture and become a
> conductor. Ouch!
> Place two layers of shrink tubing or good quality electrical tape
around the
> shaft down to the blade. This is to prevent the shaft from shorting
out on
> the edge of the access hole. Nudge the capacitor a bit at a time
one way or
> the other and remove it. Observe the scope to see if the signal has
> increased or decreased. Continue a nudge at a time in the direction
that
> brings you to the minimum point, removing the tool each time you
check the
> scope. When you have found the minimum point, it is neutralized.
>
> There is another way to neutralize by observing the characteristics
of the
> dip on the IP meter and the output peak with the SG switch on..
Since Mike
> has a scope, I am describing the scope method at this time.
>
> Vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, August 26, 2006 11:41 PM
> Subject: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A -
> 6416B -6416W operating in Class AB1)
>
>
> Hi Dave,
>
> Nope, you have it quite right. I realized that after I write my
> message. It's just that it seems to be easier to reduce this
> capacitance in a matched set. When you've reached the null point,
> you've eliminated the oscillation (or at least reduced the
> oscillation to an extremely low level, where it won't cause
> problems).
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "tetrodehead"

> <dave.crooks@> wrote:
> >
> > Hi Ellen and all,
> > My poor understanding of the neutralizing process is that it
> reduces
> > coupling through plate - grid capacitance to a minimum, thereby
> > reducing the probability of oscillation.
> >
> > I can't see that neutralizing can balance the load between
> parallelled
> > tubes.
> >
> > I am no expert and may be barking up the wrong tree!
> > Would a tube expert please clarify.
> >
> > Thanks
> > Dave F4EYK
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9106. Re: [TS-520_820_530_830] Re: Neutralizing our tubes (S2001A - 6416B -6416W operating in Class AB1)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:43:57 UTC
From: John Harp
Topic: 9057 Message: 9106

well let's hope we still get a steady supply of parts too.

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9107. Re: [TS-520_820_530_830] no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-28 23:48:05 UTC
From: John Harp
Topic: 9096 Message: 9107

have you cleaned the bandswitches? Check the bandswitches.

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9108. Re: VFO-240 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 00:14:23 UTC
From: Gordon
Topic: 8867 Message: 9108

Hi Max,
I ordered them from Ken, K4EAA.
He has them offered on his website.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
>
> I'm waiting on some replacement band switch couplers, then I'm going
> to sell this 830 andVFO-240 to buy some more rigs to work on.
>
>
> Gordon,
>
> Just curious where you got the couplers from. An old trick I use is to
> buy a piece of 1/4" aquarium hose and the smallest compression clamps
> you can find. Cut the hose to length giving about 1/2" on each side of
> coupling and put one compression clamp to each shaft. Not as pretty as
> a new coupler but works just fine.
>
> Max VE3TMT
>

9109. Re: TS-820 Finals draw excessive current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 00:18:21 UTC
From: Gordon
Topic: 9086 Message: 9109

Yes we have Walt. On the one I was working on, It turned out that the connector to the Relay Board was bad and not pulling the circuit down when the relay closed. I replaced some connectors on the relay board and all was well. Mine was on an 820 though !

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>

> Gordon, seems to me that we have been to this rodeo before.

> Walt N9WB
>

9110. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 00:29:36 UTC
From: Gordon
Topic: 9096 Message: 9110

I'm thinking Relay or bad connectors/Terminals on the Board
connectors.. I know Bandswitches will also produce some strange
results when not clean. I wonder if there is 800 volts at the Plate on
the tubes? Just because the meter says 800, doesn't mean it's getting
to the plates.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> have you cleaned the bandswitches? Check the bandswitches.
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>

9111. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 00:55:23 UTC
From: jon_77449
Topic: 9096 Message: 9111

Plates are over 800 volts measured at the tube.Cleaned the
relays,been checking wire solder terminals so far not a thing.
Jon
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I'm thinking Relay or bad connectors/Terminals on the Board
> connectors.. I know Bandswitches will also produce some strange
> results when not clean. I wonder if there is 800 volts at the
Plate on
> the tubes? Just because the meter says 800, doesn't mean it's
getting
> to the plates.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
wrote:
> >
> > have you cleaned the bandswitches? Check the bandswitches.
> >
> > ---------------------------------
> > Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
> Great rates starting at 1¢/min.
> >
> > [Non-text portions of this message have been removed]
> >
>

9112. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 00:47:09 UTC
From: jon_77449
Topic: 9096 Message: 9112

I'm getting closer! The 0 ma reading on the ALC in tune mode was caused by resistors R5 & R6 on the HV board being as much as 40% or higher out of range. I still have low rf out in CW mode.Yes, I've cleaned the band switches by use of spray cleaner,I did'nt take them apart for fear not getting them together again.ALC stays 1/4 scale with CAR on full but does reduce with reduction of CAR.I'm getting pretty sure the problem might be R70 & R71 on the rf board going up in value, but I'm nervous about attempting removal of the RF board to get at them, even to test them cause they are buried so deep.
Any thoughts?
Jon
--- In TS-520_820_530_830@yahoogroups.com, "jon_77449" <jledbetter8@...> wrote:
>
> Drive tube is fine,IP meter shows 0ma in tune position and no rf
> out.ALC meter is 1/4 scale at most and does'nt seem to move.In CW mode
> I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV meter.Q4
> & Q5 both show about 1volt low on their drain in TX & RX. All other
> transistors seem to check ok with the voltages listed in the manual.
> Please help I running out of ideas.
> Jon
>

9113. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 02:13:32 UTC
From: Gordon
Topic: 9096 Message: 9113

Well, that take scare of the question of Plate Voltage at the tubes.

Have you verified that each of the circuits in RL1 switch when going
from Receive to transmit ? How about R3 and R4.. are they good ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
<jledbetter8@...> wrote:
>
> Plates are over 800 volts measured at the tube.Cleaned the
> relays,been checking wire solder terminals so far not a thing.
> Jon
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I'm thinking Relay or bad connectors/Terminals on the Board
> > connectors.. I know Bandswitches will also produce some strange
> > results when not clean. I wonder if there is 800 volts at the
> Plate on
> > the tubes? Just because the meter says 800, doesn't mean it's
> getting
> > to the plates.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> > >
> > > have you cleaned the bandswitches? Check the bandswitches.
> > >
> > > ---------------------------------
> > > Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
> > Great rates starting at 1¢/min.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
>

9114. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 02:25:28 UTC
From: Gordon
Topic: 9096 Message: 9114

Well, R71 and R70 should be easy enough to check by just checking the voltage at pin 8 of the Driver. Check to see if the 210 voltage in, on the Rf board is 210 (or close). Have you checked the Rectifier board to be sure there are no bad (Cold) solder joints there on the Diodes?

Are you getting 210 and 300 respectiuvely out of the rectifier board ?
I have found a bunch of rigs with bad solder joints on the Diodes of the rectifier Board.
I see you have been looking at the HV Unit, But I suggest looking closely at the rectifier Board also.

Gordon

As far as R70, --- In TS-520_820_530_830@yahoogroups.com, "jon_77449" <jledbetter8@...> wrote:
>
> I'm getting closer! The 0 ma reading on the ALC in tune mode was
> caused by resistors R5 & R6 on the HV board being as much as 40% or
> higher out of range. I still have low rf out in CW mode.Yes, I've
> cleaned the band switches by use of spray cleaner,I did'nt take them
> apart for fear not getting them together again.ALC stays 1/4 scale
> with CAR on full but does reduce with reduction of CAR.I'm getting
> pretty sure the problem might be R70 & R71 on the rf board going up
> in value, but I'm nervous about attempting removal of the RF board
> to get at them, even to test them cause they are buried so deep.
> Any thoughts?
> Jon
> --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> <jledbetter8@> wrote:
> >
> > Drive tube is fine,IP meter shows 0ma in tune position and no rf
> > out.ALC meter is 1/4 scale at most and does'nt seem to move.In CW
> mode
> > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> meter.Q4
> > & Q5 both show about 1volt low on their drain in TX & RX. All
> other
> > transistors seem to check ok with the voltages listed in the
> manual.
> > Please help I running out of ideas.
> > Jon
> >
>

9115. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 02:32:24 UTC
From: Gordon
Topic: 9096 Message: 9115

Jon, The more I study the Circuit, The more I am convinced there is something on the Rectifier Board. The 210 Volt circuit feeds the R5 and R6 on the HV unit Board directly, Go back and check the 210 Volt circuit coming out of the rectifier Board. I'm betting that there may be a problem with R6 (Open) on that Board..
Just an Idea.....

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jon_77449" <jledbetter8@...> wrote:
>
> I'm getting closer! The 0 ma reading on the ALC in tune mode was
> caused by resistors R5 & R6 on the HV board being as much as 40% or
> higher out of range. I still have low rf out in CW mode.Yes, I've
> cleaned the band switches by use of spray cleaner,I did'nt take them
> apart for fear not getting them together again.ALC stays 1/4 scale
> with CAR on full but does reduce with reduction of CAR.I'm getting
> pretty sure the problem might be R70 & R71 on the rf board going up
> in value, but I'm nervous about attempting removal of the RF board
> to get at them, even to test them cause they are buried so deep.
> Any thoughts?
> Jon
> --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> <jledbetter8@> wrote:
> >
> > Drive tube is fine,IP meter shows 0ma in tune position and no rf
> > out.ALC meter is 1/4 scale at most and does'nt seem to move.In CW
> mode
> > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> meter.Q4
> > & Q5 both show about 1volt low on their drain in TX & RX. All
> other
> > transistors seem to check ok with the voltages listed in the
> manual.
> > Please help I running out of ideas.
> > Jon
> >
>

9116. MC-50 Cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 02:19:45 UTC
From: Ken Franke
Topic: 9116 Message: 9116

Friends and Neighbors,

I am looking for a mic cord for MC-50 (Base to Rig).
Anyone still making those still. I can't find the
5 pin base plug anywhere.
Got my TS-820 I had as a novice(1980) back from a ham
that borrowed it 15 yrs ago. Still looks brand new.
Will try to find complete station and set up separate
station in shack.

Finally, there is alot of good information on this group.
Ready for CW QSO's any time with 820. Just email.

Sincerely,
Ken/N5EBD

9117. HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 02:51:41 UTC
From: max_ve3tmt
Topic: 9117 Message: 9117

I am getting about 780 volts on the HV reading. Is this normal? I am only getting about 90 wats out on the 830 and wonder if this is related.

Max

9118. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 03:12:10 UTC
From: Gordon
Topic: 9117 Message: 9118

Max,
Is that Key Down Voltage or Idle Voltage ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> I am getting about 780 volts on the HV reading. Is this normal? I am
> only getting about 90 wats out on the 830 and wonder if this is related.
>
> Max
>

9119. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 03:15:36 UTC
From: Gordon
Topic: 9117 Message: 9119

Max,
The schematic says 920 on receive and 750 on full output for plate
Voltage.
Are you measuring it or reading the Rigs HV meter ?
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> I am getting about 780 volts on the HV reading. Is this normal? I am
> only getting about 90 wats out on the 830 and wonder if this is related.
>
> Max
>

9120. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 03:54:41 UTC
From: max_ve3tmt
Topic: 9117 Message: 9120

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Max,
> The schematic says 920 on receive and 750 on full output for plate
> Voltage.
> Are you measuring it or reading the Rigs HV meter ?
> Gordon
>
Yes on the radio meter,

Max

9121. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 04:26:49 UTC
From: Gordon
Topic: 9117 Message: 9121

Max,
I would NOT trust the HV meter on the 830 unless you have verified
that the resistors R5 R6 and R7 are good on the Recitifier Board.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Max,
> > The schematic says 920 on receive and 750 on full output for plate
> > Voltage.
> > Are you measuring it or reading the Rigs HV meter ?
> > Gordon
> >
> Yes on the radio meter,
>
> Max
>

9122. Re: [TS-520_820_530_830] Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 09:56:57 UTC
From: n9wb
Topic: 9117 Message: 9122

He also needs to check his screen voltage. Is the 90 watt reading on 10 meters or a lower frequency band?
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, August 28, 2006 11:26 PM
Subject: [TS-520_820_530_830] Re: HV reading on 830S

Max,
I would NOT trust the HV meter on the 830 unless you have verified
that the resistors R5 R6 and R7 are good on the Recitifier Board.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Max,
> > The schematic says 920 on receive and 750 on full output for plate
> > Voltage.
> > Are you measuring it or reading the Rigs HV meter ?
> > Gordon
> >
> Yes on the radio meter,
>
> Max
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

9123. Re: Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 09:02:21 UTC
From: mikefr24
Topic: 9057 Message: 9123

Yes thanks for the warning. I have been taking extra precaution when messing inside this rig. So far I have not had any problems and i make sure the caps are drained before I play with it.

Mike
KC8QNO

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Mikefr24, just DO NOT get across the high voltage on the radio. It packs a lethal and fatal punch.
>
> Read all about the radio in the Operators Manual before you ever take the top off. Its not a 12 volt radio. You may know more about the radio than I do at this point, however, just a word of caution.
>
> I let some stuff fall across the high voltage on an old Swan one time years ago, and it shorted and I thought a volcano had erupted in the shack.
> 73
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

9124. [TS-520_820_530_830] Please Don't Over Edit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 11:03:00 UTC
From: n9wb
Topic: 9124 Message: 9124

Please don't over edit or over snip original messages.

While it is good to remove unneeded parts from original messages, please leave pertinent information so readers can follow the thread. To edit a original message or remove the graphics added by Yahoo, click on format on your tool bar and click on plain text. Now you can edit or snip parts of original messages without removing it all.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9125. 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 10:05:30 UTC
From: unifiedcourt
Topic: 9125 Message: 9125

Have been looking around for one of these 2 meter converters. Either they are not sought after for whatever reason or they are as scarce as hens teeth. Are they worth looking for? Where can you find them? Thanks.......Ron

9126. My TS-820 is just about fixed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 10:09:31 UTC
From: mikefr24
Topic: 9126 Message: 9126

I would like to thank everyone for the help and advise that I got. I doubt I would have fixed the radio if I had not found this forum. My problem was all in the RF board. One of the 3 cables was unplugged this whole time. It looked plugged in but when I went to take that board out, I noticed that it was just barely inserted in the socket. When I plugged it in, everything came to life and the tubes stopped blowing fuses. I still have a slight tube problem. I can only muster 50 watts out of the finals. One of the tubes has a hole in the plate and I am sure it is not working. I will install my new set of tubes this evening and neutralize them. I will post again when I get that all done.

Special thanks to N9WB for his expertise with this radio and vacuum tubes!

9127. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 10:49:42 UTC
From: max_ve3tmt
Topic: 9117 Message: 9127

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Max,
> I would NOT trust the HV meter on the 830 unless you have verified
> that the resistors R5 R6 and R7 are good on the Recitifier Board.
>
> Gordon

Odd, now it is reading 800V Hmmm!. Perhaps it is the watt meter on the tuner that is reading low?

Max

9128. Re: [TS-520_820_530_830] Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:33:53 UTC
From: n9wb
Topic: 9117 Message: 9128

Could the line voltage be changing?
Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 29, 2006 5:49 AM
Subject: [TS-520_820_530_830] Re: HV reading on 830S

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Max,
> I would NOT trust the HV meter on the 830 unless you have verified
> that the resistors R5 R6 and R7 are good on the Recitifier Board.
>
> Gordon

Odd, now it is reading 800V Hmmm!. Perhaps it is the watt meter on the
tuner that is reading low?

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

9129. Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:07:53 UTC
From: wayfound2000
Topic: 9055 Message: 9129

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > Pete, Wayfound2000,
> > I would first take a phillips screwdriver, and slightly loosen
and
> then retighten every circuit board in the radio. You might just
cure
> it right then and there. I just recently got a beautiful 530s,
and
> all of them were loose.
> > 73 keep us informed
> > Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
> many thanks..will givie it A TRY!
> Pete
>

tightened the boards....SO FAR....SO GOOD has come on each time.....

Thanks

Pete G4HAK

9130. Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:07:05 UTC
From: wayfound2000
Topic: 9055 Message: 9130

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > Pete, Wayfound2000,
> > I would first take a phillips screwdriver, and slightly loosen
and
> then retighten every circuit board in the radio. You might just
cure
> it right then and there. I just recently got a beautiful 530s,
and
> all of them were loose.
> > 73 keep us informed
> > Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
> many thanks..will givie it A TRY!
> Pete
>

tightened the boards....SO FAR....SO GOOD has come on each time.....

Thanks

Pete G4HAK

9131. Re: Longevity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:34:47 UTC
From: Jeff
Topic: 9057 Message: 9131

VERY GOOD POINT !! GOOD LOOKING OUT DAVE !

Jeff KC2DAQ

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Mikefr24, just DO NOT get across the high voltage on the radio.
It packs a lethal and fatal punch.
>
> Read all about the radio in the Operators Manual before you ever
take the top off. Its not a 12 volt radio. You may know more about
the radio than I do at this point, however, just a word of caution.
>
> I let some stuff fall across the high voltage on an old Swan one
time years ago, and it shorted and I thought a volcano had erupted
in the shack.
> 73
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

9132. Re: [TS-520_820_530_830] Re: TS-530S slow wake up!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:51:09 UTC
From: David Rust
Topic: 9055 Message: 9132

tightened the boards....SO FAR....SO GOOD has come on each time.....

Thanks

Pete G4HAK

Pete, I certainly hope this cures your problem, Expansion and contraction seems to back these out. Hope this does the trick.
Dave

[Non-text portions of this message have been removed]

9133. RE: [TS-520_820_530_830] Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:55:00 UTC
From: Richard Harris
Topic: 9117 Message: 9133

Max,

Walt has probably provided the answer. I have a TS-530 at the /P location that I use at weekends which often shows 750V HT with the AT-230 meter showing 80W. Investigating why this was so, I checked the AC line voltage and it was 213V - UK voltage is nominally 230V and the transceiver may be set for 240V operation, although I haven't checked that.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of n9wb
Sent: 29 August 2006 13:34
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: HV reading on 830S

Could the line voltage be changing?
Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 29, 2006 5:49 AM
Subject: [TS-520_820_530_830] Re: HV reading on 830S

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Max,
> I would NOT trust the HV meter on the 830 unless you have verified
> that the resistors R5 R6 and R7 are good on the Recitifier Board.
>
> Gordon

Odd, now it is reading 800V Hmmm!. Perhaps it is the watt meter on the
tuner that is reading low?

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9134. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 12:57:05 UTC
From: max_ve3tmt
Topic: 9117 Message: 9134

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Could the line voltage be changing?
> Walt N9WB

I don't think so Walt, perhaps I read it wrong.

After getting the 830 home, I proceeded to remove all knobs, switches and the front panel for a good soaking in dish soap and hot water. I like to tighten up all the controls at this point too. Well I noticed the mode switch was very loose and looked like it had been cross-threaded. Well the darn thing broke when I tightened it. The threaded portion of the shaft broke away from the switch. I managed to solder the small anti-turn tab to the front chasis and the threaded part is back on the shaft and soldered to the top side of the panel for stability. So I need either a new mode switch or suggestion and securing this one to the chasis. So if anyone has an 830 they're using as a parts rig or someone has this switch in their junkbox please let me know.

Max

9135. Old Heath HD 1410 Electronic keyer with TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 13:27:05 UTC
From: Roberto Baca Barnard
Topic: 9135 Message: 9135

Bought one of these Heath keyers from W8EK. Fed it 12VDC and tested it. Adjusted paddles, cleaned contacts. It keys my Emtech and SWL fine. How do I get it to key the TS820? Seems to just close the circuit and stay like that when I plug it in. In stdby mode. Does the Keyer
output switch between neg and pos gnd?

9136. Re: My TS-820 is just about fixed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 13:57:46 UTC
From: Ellen R
Topic: 9126 Message: 9136

No problem Mike,

It's a great forum. The people in this forum, helped me to get my baby up and running again, too. In the process, I had the opportunity to learn some things about how my TS-820 works, and was left with the good feeling of knowing that I fixed my 820, and that it's on the air because of my work. Like you, I never would have pulled it off (or I would have had a much harder time), without the help of this group.

Just out of curiosity, does your TS-820 have the optional digital display, or is just in dial readout form like mine is?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...> wrote:
>
> I would like to thank everyone for the help and advise that I got. I
> doubt I would have fixed the radio if I had not found this forum. My
> problem was all in the RF board. One of the 3 cables was unplugged
> this whole time. It looked plugged in but when I went to take that
> board out, I noticed that it was just barely inserted in the socket.
> When I plugged it in, everything came to life and the tubes stopped
> blowing fuses. I still have a slight tube problem. I can only muster
> 50 watts out of the finals. One of the tubes has a hole in the plate
> and I am sure it is not working. I will install my new set of tubes
> this evening and neutralize them. I will post again when I get that
> all done.
>
> Special thanks to N9WB for his expertise with this radio and vacuum
> tubes!
>

9137. Re: [TS-520_820_530_830] Old Heath HD 1410 Electronic keyer with TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 14:18:54 UTC
From: Bob Baxter
Topic: 9135 Message: 9137

--- Roberto Baca Barnard <barnardbaca@...>
wrote:

> Bought one of these Heath keyers from W8EK. Fed it
> 12VDC and tested it. Adjusted paddles,
> cleaned contacts. It keys my Emtech and SWL fine.
> How do I get it to key the TS820? Seems
> to just close the circuit and stay like that when I
> plug it in. In stdby mode. Does the Keyer
> output switch between neg and pos gnd?
>
Roberto,

You need to interface your keyer to the rig's keying
line with something like the Jackson Harbor Press's
"Keyall"
http://home.att.net/~jacksonharbor/keyall.htm
The kit goes together in a few minutes and works very
well.

Bob Baxter aa7eq

9138. Re: [TS-520_820_530_830] Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 15:02:00 UTC
From: Ruben Echevarria
Topic: 9117 Message: 9138

Try www.k4eaa.com send Ken an email he'll probably have it....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: max_ve3tmt <max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 29, 2006 8:57:05 AM
Subject: [TS-520_820_530_830] Re: HV reading on 830S

--- In TS-520_820_530_ 830@yahoogroups. com, "n9wb" <n9wb@...> wrote:
>
> Could the line voltage be changing?
> Walt N9WB

I don't think so Walt, perhaps I read it wrong.

After getting the 830 home, I proceeded to remove all knobs, switches and the front panel for a good soaking in dish soap and hot water. I like to tighten up all the controls at this point too. Well I noticed the mode switch was very loose and looked like it had been cross-threaded. Well the darn thing broke when I tightened it. The threaded portion of the shaft broke away from the switch. I managed to solder the small anti-turn tab to the front chasis and the threaded part is back on the shaft and soldered to the top side of the panel for stability. So I need either a new mode switch or suggestion and securing this one to the chasis. So if anyone has an 830 they're using as a parts rig or someone has this switch in their junkbox please let me know.

Max

[Non-text portions of this message have been removed]

9139. Keying interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 16:00:30 UTC
From: max_ve3tmt
Topic: 9139 Message: 9139

Can anyone suggest a CW keying interface so I can use the CW keying output on my RigBlaster Plus to key the 830's CW line?

Thanks,
Max

9140. Re: [TS-520_820_530_830] Old Heath HD 1410 Electronic keyer with TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 16:24:29 UTC
From: dave@zievid.com
Topic: 9135 Message: 9140

I don't belive that's correct - you should be able to key the 520
directly. Just plug it in.

Older keyers are built for "grid-block" keying with the higher voltages as
used in a 520. I used to have one of those keyers and used it directly
with my 520 as well as with a Heathkit Apache.

Some of the older MFJ or other keyers also support this. They sometimes
have a jumper somewhere to pick the type, or have two outputs on the back.

There is a manual at http://bama.sbc.edu/heath.htm you can download and
check the specs.

- Dave
W6OT

>
>
> --- Roberto Baca Barnard <barnardbaca@...>
> wrote:
>
>> Bought one of these Heath keyers from W8EK. Fed it
>> 12VDC and tested it. Adjusted paddles,
>> cleaned contacts. It keys my Emtech and SWL fine.
>> How do I get it to key the TS820? Seems
>> to just close the circuit and stay like that when I
>> plug it in. In stdby mode. Does the Keyer
>> output switch between neg and pos gnd?
>>
> Roberto,
>
> You need to interface your keyer to the rig's keying
> line with something like the Jackson Harbor Press's
> "Keyall"
> http://home.att.net/~jacksonharbor/keyall.htm
> The kit goes together in a few minutes and works very
> well.
>
> Bob Baxter aa7eq
>
>

9141. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 14:30:15 UTC
From: baumbrent
Topic: 9125 Message: 9141

--- In TS-520_820_530_830@yahoogroups.com, "unifiedcourt"
<hrhoule@...> wrote:
>
>
> Have been looking around for one of these 2 meter
converters. Either they are not
> sought after for whatever reason or they are as scarce as hens
teeth. Are they worth
> looking for? Where can you find them? Thanks.......Ron
>
The transverters for the 520 series are the TV-502 (2 meter) and the
TV-506 (6 meter). They don't come up on e-bay very often. If you get
one make sure that you get the interconnect cable with it. Thats the
rare item! Its also very difficult to make a replacement cable
because the 12 pin Hirose connectors don't seem to exist. You can
get 8, 10 and 16 pins but not the 12. Also in the 520 series only
the 520 and 520S have the connectors built into the radio. The 520SE
has the pin outs on the circuit boards, but Kenwood chose to not
hook anything up to them. I'm still working on converting
(retrofitting?) my 520SE to run a TV-506 that was given to me by a
friend.
Have fun,
K7MEI
Brent

9142. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 17:09:06 UTC
From: Ken Gunton
Topic: 9125 Message: 9142

Good luck finding a Kenwood transverter. I've been looking
for one for six meters for a while now, with no luck.
I've pretty much resigned myself to buying a six-meter
rig, or a combo HF/6 like the TS-570S(G). I won't give
up my 830, though. Ever since I tightened all the screws
inside, it's been like new.

Ken, W8ASA

9143. Re: [TS-520_820_530_830] Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 17:46:03 UTC
From: David Rust
Topic: 9125 Message: 9143

Ever since I tightened all the screws
inside, it's been like new.

Ken, W8ASA

Ken, that the same result I had with my 530S, just gave everything a good tightening and away it went. I'm waiting on the brass sleeve for the bandswitch repair from K4EAA to complete the project. It works but I have to kinda' find tune the bandswitch toward the edge to make a connection.
73
Dave W0DLR

[Non-text portions of this message have been removed]

9144. Re: [TS-520_820_530_830] Keying interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 17:48:27 UTC
From: Rick May
Topic: 9139 Message: 9144

Hi Max,

I am not familiar with how the RigBlaster uses it's keying line. The logging program that I use has a +5vdc 'pulse' output from a serial port to use for CW keying. I use a NPN switching transistor soldered right in the hood of the serial plug on the PC to a 1/4" plug into the key jack on my 830S. The problem with the Kenwood hybrid radios is there is -65vdc potential on the keying line of the Kenwood and most transistor circuits will not handle that. It exceeds the rating of the switching transistor. I have some MPS-A42 NPN transistors rated at 300vdc and used one and it works fine.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: Can anyone suggest a CW keying interface so I can use the CW keying
output on my RigBlaster Plus to key the 830's CW line?

Thanks,
Max

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9145. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 18:46:22 UTC
From: max_ve3tmt
Topic: 9125 Message: 9145

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:

I'm waiting on the brass sleeve for the bandswitch repair from K4EAA
to complete the project. It works but I have to kinda' find tune the
bandswitch toward the edge to make a connection.

Dave,

Aquarium hose with small compression clamps works as well.

Max VE3TMT

9146. Re: Old Heath HD 1410 Electronic keyer with TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 18:49:55 UTC
From: Roberto Baca Barnard
Topic: 9135 Message: 9146

Plugging it straight in just keys down the '820. I am aware of the -65VDC The Heath manual says "Note: This keyer is designed to be compatible w/most rigs that use solid-state keying circuits as well as those that use grid-block or cathode keying. However, some solid-state keying circuits require the key line to be brought within a few tenths of a volt from ground to operate properly. If this Keyer will be used exclusively with one of these rigs, remove resistor...diode...jumper. This will reduce voltage drop across the Vce of Q6." Well, not an issue here.

Specs:
Keyer output Pos. line to gnd:
Max v., open ckt or spikes - 200v
Max current - 200mA

Negative line to gnd:
Max v, open ckt or spikes -200 v
Max current -10mA

--- In TS-520_820_530_830@yahoogroups.com, dave@... wrote:
>
> I don't belive that's correct - you should be able to key the 520
> directly. Just plug it in.
>
> Older keyers are built for "grid-block" keying with the higher voltages as
> used in a 520. I used to have one of those keyers and used it directly
> with my 520 as well as with a Heathkit Apache.
>
> Some of the older MFJ or other keyers also support this. They sometimes
> have a jumper somewhere to pick the type, or have two outputs on the back.
>
> There is a manual at http://bama.sbc.edu/heath.htm you can download and
> check the specs.
>
> - Dave
> W6OT
>
>
>
> >
> >

> > --- Roberto Baca Barnard <barnardbaca@...>
> > wrote:
> >
> >> Bought one of these Heath keyers from W8EK. Fed it
> >> 12VDC and tested it. Adjusted paddles,
> >> cleaned contacts. It keys my Emtech and SWL fine.
> >> How do I get it to key the TS820? Seems
> >> to just close the circuit and stay like that when I
> >> plug it in. In stdby mode. Does the Keyer
> >> output switch between neg and pos gnd?
> >>
> > Roberto,
> >
> > You need to interface your keyer to the rig's keying
> > line with something like the Jackson Harbor Press's
> > "Keyall"
> > http://home.att.net/~jacksonharbor/keyall.htm
> > The kit goes together in a few minutes and works very
> > well.
> >
> > Bob Baxter aa7eq
> >
> >
>

9147. Re: Keying interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 19:02:07 UTC
From: max_ve3tmt
Topic: 9139 Message: 9147

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Max,
>
> I am not familiar with how the RigBlaster uses it's keying line.
The logging program that I use has a +5vdc 'pulse' output from a
serial port to use for CW keying. I use a NPN switching transistor
soldered right in the hood of the serial plug on the PC to a 1/4" plug
into the key jack on my 830S. The problem with the Kenwood hybrid
radios is there is -65vdc potential on the keying line of the Kenwood
and most transistor circuits will not handle that. It exceeds the
rating of the switching transistor. I have some MPS-A42 NPN
transistors rated at 300vdc and used one and it works fine.
>
> 73' Rick KC0HH
> Lamar, Colorado

Rick,

Can you sketch a drawing and e-mail it to me?

Max

9148. Re: [TS-520_820_530_830] Re: Old Heath HD 1410 Electronic keyer with TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 20:23:48 UTC
From: Gary
Topic: 9135 Message: 9148

Gentlemen
On one of my rigs I had to change the polarity on the plug to make it key properly.

KC0NPJ Gary

[Non-text portions of this message have been removed]

9149. Re: My TS-820 is just about fixed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 19:43:23 UTC
From: mikefr24
Topic: 9126 Message: 9149

I have the digital display installed. It had problems not working
half the time but a little Deoxit and tightening the screws did the
trick.

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> No problem Mike,
>
> It's a great forum. The people in this forum, helped me to get my baby
> up and running again, too. In the process, I had the opportunity to
> learn some things about how my TS-820 works, and was left with the good
> feeling of knowing that I fixed my 820, and that it's on the air
> because of my work. Like you, I never would have pulled it off (or I
> would have had a much harder time), without the help of this group.
>
> Just out of curiosity, does your TS-820 have the optional digital
> display, or is just in dial readout form like mine is?
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> > I would like to thank everyone for the help and advise that I got. I
> > doubt I would have fixed the radio if I had not found this forum. My
> > problem was all in the RF board. One of the 3 cables was unplugged
> > this whole time. It looked plugged in but when I went to take that
> > board out, I noticed that it was just barely inserted in the socket.
> > When I plugged it in, everything came to life and the tubes stopped
> > blowing fuses. I still have a slight tube problem. I can only
> muster
> > 50 watts out of the finals. One of the tubes has a hole in the plate
> > and I am sure it is not working. I will install my new set of tubes
> > this evening and neutralize them. I will post again when I get that
> > all done.
> >
> > Special thanks to N9WB for his expertise with this radio and vacuum
> > tubes!
> >
>

9150. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 19:59:23 UTC
From: jon_77449
Topic: 9096 Message: 9150

I was thinking that also about the RECT board. On the HV board I had to unsolder one end of each resistor to check and found 4 bad, now I'll check the Rect board.
Jon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Jon, The more I study the Circuit, The more I am convinced there is
> something on the Rectifier Board. The 210 Volt circuit feeds the R5
> and R6 on the HV unit Board directly, Go back and check the 210 Volt
> circuit coming out of the rectifier Board. I'm betting that there may
> be a problem with R6 (Open) on that Board..
> Just an Idea.....
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> <jledbetter8@> wrote:
> >
> > I'm getting closer! The 0 ma reading on the ALC in tune mode was
> > caused by resistors R5 & R6 on the HV board being as much as 40% or
> > higher out of range. I still have low rf out in CW mode.Yes, I've
> > cleaned the band switches by use of spray cleaner,I did'nt take them
> > apart for fear not getting them together again.ALC stays 1/4 scale
> > with CAR on full but does reduce with reduction of CAR.I'm getting
> > pretty sure the problem might be R70 & R71 on the rf board going up
> > in value, but I'm nervous about attempting removal of the RF board
> > to get at them, even to test them cause they are buried so deep.
> > Any thoughts?
> > Jon
> > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > <jledbetter8@> wrote:
> > >
> > > Drive tube is fine,IP meter shows 0ma in tune position and no rf

> > > out.ALC meter is 1/4 scale at most and does'nt seem to move.In
CW
> > mode
> > > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> > meter.Q4
> > > & Q5 both show about 1volt low on their drain in TX & RX. All
> > other
> > > transistors seem to check ok with the voltages listed in the
> > manual.
> > > Please help I running out of ideas.
> > > Jon
> > >
> >
>

9151. Re: HV reading on 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 20:08:54 UTC
From: iz2gaq
Topic: 9117 Message: 9151

Have you checked that your DC voltmeter has a proper RF blocking
inductance/filter?

--
Dom IZ2GAQ

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>
> Max,
>
> Walt has probably provided the answer. I have a TS-530 at the /P
location that I use at weekends which often shows 750V HT with the
AT-230 meter showing 80W. Investigating why this was so, I checked
the AC line voltage and it was 213V - UK voltage is nominally 230V
and the transceiver may be set for 240V operation, although I haven't
checked that.
>
> Richard G3OTK
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of n9wb
> Sent: 29 August 2006 13:34
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: HV reading on 830S
>
>
> Could the line voltage be changing?
> Walt N9WB
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, August 29, 2006 5:49 AM
> Subject: [TS-520_820_530_830] Re: HV reading on 830S
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Max,
> > I would NOT trust the HV meter on the 830 unless you have verified
> > that the resistors R5 R6 and R7 are good on the Recitifier Board.
> >
> > Gordon

>
> Odd, now it is reading 800V Hmmm!. Perhaps it is the watt meter on the
> tuner that is reading low?
>
> Max
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.6/428 - Release Date: 8/25/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

9152. Re: [TS-520_820_530_830] Re: Keying interface

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 20:10:02 UTC
From: Max Harelik
Topic: 9139 Message: 9152

Rick, I'd be interested, too, as I will be using my old Heath keyer
(when I can remember which moving box it's in) with my 530. Thanks.

73,
Max, K5OVW

max_ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Rick May <kc0hh@...> wrote:
> >
> > Hi Max,
> >
> > I am not familiar with how the RigBlaster uses it's keying line.
> The logging program that I use has a +5vdc 'pulse' output from a
> serial port to use for CW keying. I use a NPN switching transistor
> soldered right in the hood of the serial plug on the PC to a 1/4" plug
> into the key jack on my 830S. The problem with the Kenwood hybrid
> radios is there is -65vdc potential on the keying line of the Kenwood
> and most transistor circuits will not handle that. It exceeds the
> rating of the switching transistor. I have some MPS-A42 NPN
> transistors rated at 300vdc and used one and it works fine.
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
>
> Rick,
>
> Can you sketch a drawing and e-mail it to me?
>
> Max
>
>

[Non-text portions of this message have been removed]

9153. RigBlaster CW Keying Circuit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 20:42:20 UTC
From: max_ve3tmt
Topic: 9153 Message: 9153

According to my RigBlaster manual the CW line is keyed with a
Fairchild CNY17-3 optocoupler. Here is a link to the data sheet:

http://www.ortodoxism.ro/datasheets/fairchild/CNY17-3.pdf

Can someone look it over and offer their opinion as to whether or not
it would be suitable for keying the 830.

Thanks,

Max

9154. can HF transmit overload UHF/VHF radio?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 20:49:39 UTC
From: Valued Customer
Topic: 9154 Message: 9154

Hello group. I hope this isn't too far off topic, but I know there's a lot of smart cookies in here!

I'm wondering if my VHF/UHF handheld can be damaged (or other problems!) from the HF inverted-V dipole if they're in the same 'field' of each other? The mag-mount is within the V of the antenna and the closest distance is about a foot from one of the dipole ends.

The HF dipole is four wires, tuned to 20m and 40m, while the handheld is a dual-band UHF/VHF mag-mount.

I keep the handheld running 24/7 for streaming the local repeater to the internet and wanted to make sure that when I'm using my TS-520 on full power (100w), it won't fry my little radio!

73, Frank K2NCC

9155. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 20:57:24 UTC
From: james27613
Topic: 9125 Message: 9155

hi ron,

yes, they are scarece but do turn up once in a while on ebay
and qth.com sites. $ 125-$ 250 depending on condition.

save searches in ebay for transverter, tv*502, kenwood 502
and you can get email when they pop up. Be sure to get the
cables otherwise it will be more work to find the hirose male
connectors and make them up.

I've got the transverter manuals at hamftp (aka RUBE) and
at mods.dk if you want to take a look at the specs.

I have the 2m and the 6m transveters, 2m is quiet in fm05
but 6m is a lot more active.

73 james ke4drn

> Have been looking around for one of these 2 meter
converters. Either they are not
> sought after for whatever reason or they are as scarce as hens
teeth. Are they worth
> looking for? Where can you find them? Thanks.......Ron
>

9156. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 21:10:33 UTC
From: jon_77449
Topic: 9096 Message: 9156

You were right Gordon! R8 for the SG measured 20-40% to high,R5 &
R6 measured right on,R1-4 some measured around 1.5meg! should have
been 470k.I may not finish today....XYL,you know how that goes. I'll
update more later.
Thanks!
Jon
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Jon, The more I study the Circuit, The more I am convinced there
is
> something on the Rectifier Board. The 210 Volt circuit feeds the R5
> and R6 on the HV unit Board directly, Go back and check the 210
Volt
> circuit coming out of the rectifier Board. I'm betting that there
may
> be a problem with R6 (Open) on that Board..
> Just an Idea.....
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> <jledbetter8@> wrote:
> >
> > I'm getting closer! The 0 ma reading on the ALC in tune mode was
> > caused by resistors R5 & R6 on the HV board being as much as 40%
or
> > higher out of range. I still have low rf out in CW mode.Yes,
I've
> > cleaned the band switches by use of spray cleaner,I did'nt take
them
> > apart for fear not getting them together again.ALC stays 1/4
scale
> > with CAR on full but does reduce with reduction of CAR.I'm
getting
> > pretty sure the problem might be R70 & R71 on the rf board going
up
> > in value, but I'm nervous about attempting removal of the RF
board
> > to get at them, even to test them cause they are buried so deep.
> > Any thoughts?
> > Jon
> > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > <jledbetter8@> wrote:
> > >
> > > Drive tube is fine,IP meter shows 0ma in tune position and no

rf
> > > out.ALC meter is 1/4 scale at most and does'nt seem to move.In
CW
> > mode
> > > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> > meter.Q4
> > > & Q5 both show about 1volt low on their drain in TX & RX. All
> > other
> > > transistors seem to check ok with the voltages listed in the
> > manual.
> > > Please help I running out of ideas.
> > > Jon
> > >
> >
>

9157. Re: [TS-520_820_530_830] Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 21:45:51 UTC
From: Peter A Markavage
Topic: 9125 Message: 9157

I've been using an LT 6S SSB Electronic transverter with my 830 for
years. 830 transverter output feeds the transverter without any problems.
SSB Electronic has a whole series of transverters. Color and style don't
match, but I was looking for performance and reliability, so that wasn't
a consideration. So, your choice is, have it match cosmetically or
perform well.

Pete, wa2cwa

On Tue, 29 Aug 2006 13:09:06 -0400 "Ken Gunton" <ken@...>
writes:
>
> Good luck finding a Kenwood transverter. I've been looking
> for one for six meters for a while now, with no luck.
> I've pretty much resigned myself to buying a six-meter
> rig, or a combo HF/6 like the TS-570S(G). I won't give
> up my 830, though. Ever since I tightened all the screws
> inside, it's been like new.
>
> Ken, W8ASA

9158. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 22:24:15 UTC
From: jon_77449
Topic: 9096 Message: 9158

Ok, voltages on RECT board seem much better now,Then I tried measuring voltages on the tubes and I'm not gettintg the 12.6v on neither the driver or the finals,The tubes are lite up so the heaters are on.
Jon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Jon, The more I study the Circuit, The more I am convinced there is
> something on the Rectifier Board. The 210 Volt circuit feeds the R5
> and R6 on the HV unit Board directly, Go back and check the 210 Volt
> circuit coming out of the rectifier Board. I'm betting that there may
> be a problem with R6 (Open) on that Board..
> Just an Idea.....
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> <jledbetter8@> wrote:
> >
> > I'm getting closer! The 0 ma reading on the ALC in tune mode was
> > caused by resistors R5 & R6 on the HV board being as much as 40% or
> > higher out of range. I still have low rf out in CW mode.Yes, I've
> > cleaned the band switches by use of spray cleaner,I did'nt take them
> > apart for fear not getting them together again.ALC stays 1/4 scale
> > with CAR on full but does reduce with reduction of CAR.I'm getting
> > pretty sure the problem might be R70 & R71 on the rf board going up
> > in value, but I'm nervous about attempting removal of the RF board
> > to get at them, even to test them cause they are buried so deep.
> > Any thoughts?
> > Jon
> > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > <jledbetter8@> wrote:
> > >
> > > Drive tube is fine,IP meter shows 0ma in tune position and no

rf
> > > out.ALC meter is 1/4 scale at most and does'nt seem to move.In
CW
> > mode
> > > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> > meter.Q4
> > > & Q5 both show about 1volt low on their drain in TX & RX. All
> > other
> > > transistors seem to check ok with the voltages listed in the
> > manual.
> > > Please help I running out of ideas.
> > > Jon
> > >
> >
>

9159. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 22:12:03 UTC
From: baumbrent
Topic: 9125 Message: 9159

James,
Did you ever find a source for the Hirose connectors? I know I
haven't. I would prefer the OEM style when I retrofit my 520SE,
which means both male and female connectors. Otherwise I'll go with
a more modern connector and modify the 506 as well by jumpering
over from the OEM port.
Thanks,
Brent K7MEI

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi ron,
>
> yes, they are scarece but do turn up once in a while on ebay
> and qth.com sites. $ 125-$ 250 depending on condition.
>
> save searches in ebay for transverter, tv*502, kenwood 502
> and you can get email when they pop up. Be sure to get the
> cables otherwise it will be more work to find the hirose male
> connectors and make them up.
>
> I've got the transverter manuals at hamftp (aka RUBE) and
> at mods.dk if you want to take a look at the specs.
>
> I have the 2m and the 6m transveters, 2m is quiet in fm05
> but 6m is a lot more active.
>
> 73 james ke4drn
>
> > Have been looking around for one of these 2 meter
> converters. Either they are not
> > sought after for whatever reason or they are as scarce as hens
> teeth. Are they worth
> > looking for? Where can you find them? Thanks.......Ron
> >
>

9160. Pwr Transformer Needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 22:31:07 UTC
From: joe sloss
Topic: 9160 Message: 9160

Need TS-520/520S power transformer. One from a 820 may also work. Thanks

Joe k7mks

[Non-text portions of this message have been removed]

9161. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 23:25:26 UTC
From: Gordon
Topic: 9096 Message: 9161

What readings are you getting Jon ?>

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
<jledbetter8@...> wrote:
>
> Ok, voltages on RECT board seem much better now,Then I tried
> measuring voltages on the tubes and I'm not gettintg the 12.6v on
> neither the driver or the finals,The tubes are lite up so the
> heaters are on.
> Jon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Jon, The more I study the Circuit, The more I am convinced there
> is
> > something on the Rectifier Board. The 210 Volt circuit feeds the R5
> > and R6 on the HV unit Board directly, Go back and check the 210
> Volt
> > circuit coming out of the rectifier Board. I'm betting that there
> may
> > be a problem with R6 (Open) on that Board..
> > Just an Idea.....
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > <jledbetter8@> wrote:
> > >
> > > I'm getting closer! The 0 ma reading on the ALC in tune mode was
> > > caused by resistors R5 & R6 on the HV board being as much as 40%
> or
> > > higher out of range. I still have low rf out in CW mode.Yes,
> I've
> > > cleaned the band switches by use of spray cleaner,I did'nt take
> them
> > > apart for fear not getting them together again.ALC stays 1/4
> scale
> > > with CAR on full but does reduce with reduction of CAR.I'm
> getting
> > > pretty sure the problem might be R70 & R71 on the rf board going
> up
> > > in value, but I'm nervous about attempting removal of the RF
> board

> > > to get at them, even to test them cause they are buried so deep.
> > > Any thoughts?
> > > Jon
> > > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > > <jledbetter8@> wrote:
> > > >
> > > > Drive tube is fine,IP meter shows 0ma in tune position and no
> rf
> > > > out.ALC meter is 1/4 scale at most and does'nt seem to move.In
> CW
> > > mode
> > > > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> > > meter.Q4
> > > > & Q5 both show about 1volt low on their drain in TX & RX. All
> > > other
> > > > transistors seem to check ok with the voltages listed in the
> > > manual.
> > > > Please help I running out of ideas.
> > > > Jon
> > > >
> > >
> >
>

9162. Re: [TS-520_820_530_830] Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-29 23:41:21 UTC
From: David Rust
Topic: 9096 Message: 9162

I'm not gettintg the 12.6v on neither the driver or the finals,The tubes are lite up so the heaters are on.
> Jon

Jon, if my memory serves me from the "olden days" the 12.6 is AC, do you have your meter on the AC range. Someone correct me if I'm wrong.
Dave W0DLR

[Non-text portions of this message have been removed]

9163. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 00:09:13 UTC
From: jon_77449
Topic: 9096 Message: 9163

Yes it was AC and reading correct.Pin 1 is reading low, should be .05 on RX and 1.3 on TX and its .01 and .31volts and of course the same on pins 4 & 6 since their wired together. pin 7on V1 should be 6.3volts AC and I'm getting 5.4v. Pin2 of V2 should be6.3v AC and I'm getting 5.4v AC. All others I think are OK.
Jon

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> I'm not gettintg the 12.6v on neither the driver or the finals,The tubes are lite up so the heaters are on.
> > Jon
>
> Jon, if my memory serves me from the "olden days" the 12.6 is AC, do you have your meter on the AC range. Someone correct me if I'm wrong.
> Dave W0DLR
>
>
> [Non-text portions of this message have been removed]
>

9164. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 00:29:32 UTC
From: james27613
Topic: 9125 Message: 9164

Hi brent,

I remember another post on these hirose connectors,
someone found them at a dealer in the UK.

my tv-502 came with the cable for the tv-506, I added the
rca pigtail for the connection to the jack on the ts-520.
the tv-506 came with the correct cable.

Tentec 1208 transverters also show up on ebay/qth,
but need 5w max drive (or 10w with resistor change).
Tentec is taking orders but are not shipping per their website.

73 james ke4drn

> James,
> Did you ever find a source for the Hirose connectors? I know I
> haven't. I would prefer the OEM style when I retrofit my 520SE,
> which means both male and female connectors. Otherwise I'll go
with
> a more modern connector and modify the 506 as well by jumpering
> over from the OEM port.
> Thanks,
> Brent K7MEI
>

9165. Re: can HF transmit overload UHF/VHF radio?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 00:28:33 UTC
From: Ellen R
Topic: 9154 Message: 9165

Hi Frank,

I have a lot of experience with VHF & UHF, since I do a fair amount of weak signal work (SSB & CW) from 6 through 432. Yeah your RF field stregth wqith the magmount next to the HF antenna is quite high. BUT don't forget, you're dealing with harmonics reaching 2m (I assume you're on 2m with your handheld), from at the closest, 10m. That's about the 6th harmonic, and it's going to be down at least 40dB. BUT, handhelds do have wimpy filters in them, and you may still end up with at the very least, overload & serious desense from either the harmonics, or intermod. If you're running serious power, yes, there may be a small chance of frying the front end of the HT.

You might want to do, what many of us who contest on HF and above do when multiple radios are running, with antennas close to each other (because oftentime the rigs being used in a multi-op will overload each other's receiver front ends), either install a 2m bandpass filter in the feedline to the HT, or else build a stub trap for 2m, that will also act a as a bandpass filter, and put it in the feeline path. One of these two items (which are pretty similar, but are just built differently), should do the trick.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Valued Customer" <defaultprofile@...> wrote:
>
> Hello group. I hope this isn't too far off topic, but I know there's
> a lot of smart cookies in here!
>
> I'm wondering if my VHF/UHF handheld can be damaged (or other
> problems!) from the HF inverted-V dipole if they're in the same
> 'field' of each other? The mag-mount is within the V of the antenna
> and the closest distance is about a foot from one of the dipole ends.
>
> The HF dipole is four wires, tuned to 20m and 40m, while the handheld
> is a dual-band UHF/VHF mag-mount.
>
> I keep the handheld running 24/7 for streaming the local repeater to
> the internet and wanted to make sure that when I'm using my TS-520 on
> full power (100w), it won't fry my little radio!

>
> 73, Frank K2NCC
>

9166. Re: [TS-520_820_530_830] RigBlaster CW Keying Circuit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 00:34:50 UTC
From: Tibor (Tibi) Zentai
Topic: 9153 Message: 9166

Hello Max,

Data sheet states:

DETECTOR
Breakdown Voltage
Collector to Emitter IC = 1.0 mA, IF = 0 BVCEO All 70 100

Tipical 70V breakdown Voltage is low for keying -65V. General principle that it should be min. 150-200V or better.

The case is very simple: you can use this transistor to agitate a relay using 5-12V DC. This relay may be a DIL IC reed relay thah is a very common component and the price must be a few bucks over there . Relay needs one closing switch and nothing more.

Advantage: no galvanic coupling between trx and other electronics.

Circuit: the emitter is on common ground, base stays open, and to collector you connect one end of the the coil of relay. The other end is connected to DC (5-12V) according to the relay type you get. The closig contact is connected to the radio CW jack with shielded cable.

That's all. My CW control goes directly from the serial port of the computer with a one transistor "interface" and combined with the elkey. The relay is in my elkey.

********** REPLY SEPARATOR **********

On 2006.08.29. at 20:42 max_ve3tmt wrote:

>According to my RigBlaster manual the CW line is keyed with a
>Fairchild CNY17-3 optocoupler. Here is a link to the data sheet:
>
>http://www.ortodoxism.ro/datasheets/fairchild/CNY17-3.pdf
>
>Can someone look it over and offer their opinion as to whether or not
>it would be suitable for keying the 830.
>
>Thanks,
>
>Max

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

9167. VFO-230, VFO-240, and TS-830S For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 02:27:11 UTC
From: Ken Gunton
Topic: 9125 Message: 9167

I received the following today, and have
his permission to post it here in the
group:

Hi Ken,

Just saw your ad where you were looking
for a VFO-230. I have one in perfect
shape for sale for $200.00.

I do not have the box and the cable,
but only a copy of the documentation.

I also have a VFO-240, and a
TS830-S with CW filter for sale.

If interested, contact me.

Very 73,

Wayne N5BV
214-363-1958

9168. Re: MC-50 Cord

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 04:15:36 UTC
From: paka4820022002
Topic: 9116 Message: 9168

--- In TS-520_820_530_830@yahoogroups.com, "Ken Franke" <n5ebd@...>
wrote:
>
> Friends and Neighbors,
>
> I am looking for a mic cord for MC-50 (Base to Rig).
> Anyone still making those still. I can't find the
> 5 pin base plug anywhere.
> Got my TS-820 I had as a novice(1980) back from a ham
> that borrowed it 15 yrs ago. Still looks brand new.
> Will try to find complete station and set up separate
> station in shack.
>
> Finally, there is alot of good information on this group.
> Ready for CW QSO's any time with 820. Just email.
>
> Sincerely,
> Ken/N5EBD
>
Ken..... Send me your mailing address and I will send you the cord
you are looking for. I have one that goes to my TS 830s. I am glad to
help you out. Paul Anderson KA1GIJ Flyboy1228@...

9169. Re: [TS-520_820_530_830] Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 06:53:21 UTC
From: Peter A Markavage
Topic: 9125 Message: 9169

The UK dealer closed shop sometime in the latter part of 2005.

Pete, wa2cwa

On Wed, 30 Aug 2006 00:29:32 -0000 "james27613" <james27613@...>
writes:
> Hi brent,
>
> I remember another post on these hirose connectors,
> someone found them at a dealer in the UK.
>
> my tv-502 came with the cable for the tv-506, I added the
> rca pigtail for the connection to the jack on the ts-520.
> the tv-506 came with the correct cable.
>
> Tentec 1208 transverters also show up on ebay/qth,
> but need 5w max drive (or 10w with resistor change).
> Tentec is taking orders but are not shipping per their website.
>
> 73 james ke4drn
>
>
> > James,
> > Did you ever find a source for the Hirose connectors? I know I
> > haven't. I would prefer the OEM style when I retrofit my 520SE,
> > which means both male and female connectors. Otherwise I'll go
> with
> > a more modern connector and modify the 506 as well by jumpering
> > over from the OEM port.
> > Thanks,
> > Brent K7MEI

9170. Re: [TS-520_820_530_830] Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 09:56:55 UTC
From: n9wb
Topic: 9096 Message: 9170

If you are checking the 12.6 tube filament voltage, be sure the voltmeter is on AC volts.
Walt
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, August 29, 2006 6:25 PM
Subject: [TS-520_820_530_830] Re: no/low TX on TS-520

What readings are you getting Jon ?>

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
<jledbetter8@...> wrote:
>
> Ok, voltages on RECT board seem much better now,Then I tried
> measuring voltages on the tubes and I'm not gettintg the 12.6v on
> neither the driver or the finals,The tubes are lite up so the
> heaters are on.
> Jon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Jon, The more I study the Circuit, The more I am convinced there
> is
> > something on the Rectifier Board. The 210 Volt circuit feeds the R5
> > and R6 on the HV unit Board directly, Go back and check the 210
> Volt
> > circuit coming out of the rectifier Board. I'm betting that there
> may
> > be a problem with R6 (Open) on that Board..
> > Just an Idea.....
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > <jledbetter8@> wrote:
> > >
> > > I'm getting closer! The 0 ma reading on the ALC in tune mode was
> > > caused by resistors R5 & R6 on the HV board being as much as 40%
> or
> > > higher out of range. I still have low rf out in CW mode.Yes,
> I've
> > > cleaned the band switches by use of spray cleaner,I did'nt take
> them
> > > apart for fear not getting them together again.ALC stays 1/4

> scale
> > > with CAR on full but does reduce with reduction of CAR.I'm
> getting
> > > pretty sure the problem might be R70 & R71 on the rf board going
> up
> > > in value, but I'm nervous about attempting removal of the RF
> board
> > > to get at them, even to test them cause they are buried so deep.
> > > Any thoughts?
> > > Jon
> > > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > > <jledbetter8@> wrote:
> > > >
> > > > Drive tube is fine,IP meter shows 0ma in tune position and no
> rf
> > > > out.ALC meter is 1/4 scale at most and does'nt seem to move.In
> CW
> > > mode
> > > > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v on HV
> > > meter.Q4
> > > > & Q5 both show about 1volt low on their drain in TX & RX. All
> > > other
> > > > transistors seem to check ok with the voltages listed in the
> > > manual.
> > > > Please help I running out of ideas.
> > > > Jon
> > > >
> > >
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.6/430 - Release Date: 8/28/06

[Non-text portions of this message have been removed]

9171. Re: 2 MeterTransverter for TS-520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 04:04:18 UTC
From: baumbrent
Topic: 9125 Message: 9171

I remember the same post as well, I think one of my questions
initiated it. If I remember correctly the company had 10 and 14 pin
connectors but did not advertise a 12. I know the connectors were a
JTA (Japanese Telecom Authority)standard back in the '70s, and were
probably easy to get. Ah well, I'll go with a more modern connector,
after all a round hole is easier to cut in the back panel than a
square one. :)
Brent

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> Hi brent,
>
> I remember another post on these hirose connectors,
> someone found them at a dealer in the UK.
>
> my tv-502 came with the cable for the tv-506, I added the
> rca pigtail for the connection to the jack on the ts-520.
> the tv-506 came with the correct cable.
>
> Tentec 1208 transverters also show up on ebay/qth,
> but need 5w max drive (or 10w with resistor change).
> Tentec is taking orders but are not shipping per their website.
>
> 73 james ke4drn
>
>
> > James,
> > Did you ever find a source for the Hirose connectors? I know I
> > haven't. I would prefer the OEM style when I retrofit my 520SE,
> > which means both male and female connectors. Otherwise I'll go
> with
> > a more modern connector and modify the 506 as well by jumpering
> > over from the OEM port.
> > Thanks,
> > Brent K7MEI
> >
>

9172. Transverter Connector for 520 Series

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 05:04:04 UTC
From: baumbrent
Topic: 9172 Message: 9172

According to my search of the web tonight there is a US based source for the elusive 12 pin connector used on the TS-520 and 520S as the transverter connector. Also known as a Hirose or Sumicon 1600 series connector pictures, measurements, etc. can be found at www.hirose-connectors.com/products/1600_1.htm and at hirose.co.jp/cataloge_hp/e21600015.pdf.

The US company that apparently carries them is Intercon 1, 1750 Goedderz Rd., Suite C, Baxter, MN 56425, (218) 828-3157. They don't show a web site.

I also mis-spoke in an earlier post, the Japanese telephone company is NTT, not JAT or JTA, blame it on a faulty memory.

Good luck to all you who are trying to build transverter cables.

Brent K7MEI

9173. Re: Old Heath HD 1410 Electronic keyer with TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 18:10:18 UTC
From: Roberto Baca Barnard
Topic: 9135 Message: 9173

Didn't work here.

--- In TS-520_820_530_830@yahoogroups.com, "Gary" <meyer@...> wrote:
>
> Gentlemen
> On one of my rigs I had to change the polarity on the plug to
make it key properly.
>
> KC0NPJ Gary
>
>
> [Non-text portions of this message have been removed]
>

9174. Astatic D-104 mic with Trio TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 21:59:57 UTC
From: m3snd
Topic: 9174 Message: 9174

Hi can anyone tell me if they have used an Astatic D-104 mic with the built in amp on a 830.
I use an MC-50 with favourable reports but wondered if the D-104 would introduce more bass frequencies.
Any constructive comments would be gratefully received.

Regards Kevin.

9175. Re: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 23:32:33 UTC
From: n9wb
Topic: 9174 Message: 9175

Kevin:
The MC-50 is pretty flat. The D-104 has more highs. I have an article about improving the response of the D-104 posted in the files section of both the KenwoodMics and the astaticmicrophones Yahoo Groups.

The TS-830 rolls off at 400 Hz because of the filter. So it is not going to have booming bass.

Vy 73, Walt N9WB

----- Original Message -----
From: m3snd
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 30, 2006 4:59 PM
Subject: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Hi can anyone tell me if they have used an Astatic D-104 mic with the built in amp on a 830.
I use an MC-50 with favourable reports but wondered if the D-104 would introduce more bass frequencies.
Any constructive comments would be gratefully received.

Regards Kevin.

9176. Fwd: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-30 23:17:43 UTC
From: kc2aup@arrl.net
Topic: 9176 Message: 9176

I have been using the amplified D-104 on my radio for quite some time now.
I have had nothing but favorable audio reports. I also have the MC-50 and 60
for my TS-850S with patch cords for the 830, and I can tell you that the
D-104 beats them all.

Frank
kc2aup...

[Non-text portions of this message have been removed]

9177. D-104 High Impedence Microphone buffer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 03:00:50 UTC
From: ab8rl
Topic: 9177 Message: 9177

I have available the D-104 High Impedence micorphone buffer circuit board which was made by Steve Fraasch K0SF. I have complete install documentation. I believe this circuit makes the D-104 more adaptable to low impedence microphone circuits. Contact AB8RL@... for price. I have only one board.

9178. Parts needed.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 02:40:36 UTC
From: joe sloss
Topic: 9178 Message: 9178

Need a good AVC 3 position switch from a 520 or 820. Need a power transformer for a 520. Any parts rigs out there.

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

9179. Re: [TS-520_820_530_830] D-104 High Impedence Microphone buffer

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 09:56:46 UTC
From: n9wb
Topic: 9177 Message: 9179

This is essentially the same thing that the circuit in my article does. It is easy to do.

Walt N9WB
----- Original Message -----
From: ab8rl
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 30, 2006 10:00 PM
Subject: [TS-520_820_530_830] D-104 High Impedence Microphone buffer

I have available the D-104 High Impedence micorphone buffer circuit
board which was made by Steve Fraasch K0SF. I have complete install
documentation. I believe this circuit makes the D-104 more adaptable
to low impedence microphone circuits. Contact AB8RL@... for
price. I have only one board.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/433 - Release Date: 8/30/06

[Non-text portions of this message have been removed]

9180. RE: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 02:09:44 UTC
From: Kevin King
Topic: 9174 Message: 9180

If you want to get bass try an old turner m3+ or a M2. You will not get much below the lower skirt of the filters in the Kenwood.

And if you have the bucks a Sennheiser MD421 mike would be great.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of m3snd
Sent: Wednesday, August 30, 2006 6:00 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Hi can anyone tell me if they have used an Astatic D-104 mic with the built in amp on a 830.
I use an MC-50 with favourable reports but wondered if the D-104 would introduce more bass frequencies.
Any constructive comments would be gratefully received.

Regards Kevin.

Yahoo! Groups Links

9181. Re: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 12:03:10 UTC
From: n9wb
Topic: 9174 Message: 9181

Also a Heil Pro-40. Walt N9WB
----- Original Message -----
From: Kevin King
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, August 30, 2006 9:09 PM
Subject: RE: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

If you want to get bass try an old turner m3+ or a M2. You will not get much
below the lower skirt of the filters in the Kenwood.

And if you have the bucks a Sennheiser MD421 mike would be great.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of m3snd
Sent: Wednesday, August 30, 2006 6:00 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Astatic D-104 mic with Trio TS-830

Hi can anyone tell me if they have used an Astatic D-104 mic with the built
in amp on a 830.
I use an MC-50 with favourable reports but wondered if the D-104 would
introduce more bass frequencies.
Any constructive comments would be gratefully received.

Regards Kevin.

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/433 - Release Date: 8/30/06

[Non-text portions of this message have been removed]

9182. Re: Astatic D-104 mic with Trio TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 13:12:51 UTC
From: max_ve3tmt
Topic: 9174 Message: 9182

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Also a Heil Pro-40. Walt N9WB

Looking for help on a couple of things....

According to the meter on my AT230 I'm only getting about 85-90 watts out of my 830. I've swapped out the driver tube with a couple of spares I have and get the same results. I have a matched pair of extra 6146W's in the drawer I could try but am wondering...could the meter on the AT230 be off that much? I don't have anything to calibrate it against. Is there a certain plate current reading I should be achieving for a given power output? I can easily get 60 mA idling current, and my HV is good.

Following the last few threads on bassy audio....

I did a direct balanced modulator feed into the 830 by feeding the audio directly into C113(+). This cap is on the output of the final mic amplifier stage just before the modulator. To this I fed my Behringer mic which goes through a W2IHY EQ. With this setup I get nowhere near the average PEP output like I do when using the MC-50 into the mic plug. I know it isn't the modulator feed because I have also fed the W2IHY into the mic plug and get the same results. I will get 90W on a whistle, but the average barely goes over 50W. I have also swapped out the 2.4 Khz filter for a 3.0 Khz filter from a 930. Could there be an impedance mismatch? This combination worked great feeding my TS850. I did the modulator and filter mod in hopes of using the EQ for some nice tailored audio but with such a reduction in output power I'm scratching my head.

Suggestions on both issues would be appreciated.

Max

9183. Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 16:57:11 UTC
From: Bill
Topic: 9183 Message: 9183

Maybe just maybe I will get lucky and find this cable that someone has laying around. Without it I am dead in the water. No TX or Rec. Any help would be most appreciated. You might even know where i can order one.
Item 2 My rig is missing the Jumper plug. I have tried several places with no luck.
Any help would sure be appreciated.

73 Bill

9184. Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 16:58:26 UTC
From: Bill
Topic: 9183 Message: 9184

Maybe just maybe I will get lucky and find this cable that someone has laying around. Without it I am dead in the water. No TX or Rec. Any help would be most appreciated. You might even know where i can order one.
Item 2 My rig is missing the Jumper plug. I have tried several places with no luck.
Any help would sure be appreciated.

73 Bill

9185. Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 17:24:29 UTC
From: Clif
Topic: 9183 Message: 9185

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <bwilkinson@...> wrote:
>
> Maybe just maybe I will get lucky and find this cable that someone has
> laying around. Without it I am dead in the water. No TX or Rec. Any
> help would be most appreciated. You might even know where i can order
> one.
> Item 2 My rig is missing the Jumper plug. I have tried several places
> with no luck.
> Any help would sure be appreciated.
>
> 73 Bill
>

To ge the radio going all you need is a jumper. Look at the back of
the radio. Clockwise from the gap jumper the first 2 holes. The radio
will work. You will probably have to make up the cable. The plugs P/N
from Kenwood is E05-0901-05. They are wired 1-1 with one shielded wire.

I just checked Kenwood parts and the plugs are discontinued.

Clif

9186. Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 17:28:03 UTC
From: baumbrent
Topic: 9183 Message: 9186

I predict a flood of responses on this one.

You may already know that the jumper plug isn't required. A paperclip cut and bent to fit between the 2 pins is sufficient. Just make sure it fits very snugly.

As for the cable: I am using a chunk of 4 pair computer LAN cable. I cut the heads of some brass brads of the right diameter, soldered these to the cable ends, put on a little shrink wrap for luck and then just stuck them into the holes in the VFO sockets. For a while I just stuck the ends of the wires in there but they kept coming loose. The connection is direct pin-to-pin, e.g. pin 1 on the radio goes to pin 1 on the VFO, etc. I guess I could get fancier, but it works great.

Good luck and have fun,
Brent K7MEI

--- In TS-520_820_530_830@yahoogroups.com, "Bill" <bwilkinson@...> wrote:
>
> Maybe just maybe I will get lucky and find this cable that someone has
> laying around. Without it I am dead in the water. No TX or Rec. Any
> help would be most appreciated. You might even know where i can order
> one.
> Item 2 My rig is missing the Jumper plug. I have tried several places
> with no luck.
> Any help would sure be appreciated.
>
> 73 Bill
>

9187. Lowering bass response on the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 17:53:09 UTC
From: max_ve3tmt
Topic: 9187 Message: 9187

I've got the 3 Khz SSB filter in the radio but the response curve is too high. I want to adjust the carrier set points bring the bottom end of my TX audio down say to aroind 200 hz. Suggestions?

Max VE3TMT

9188. Trio TS-830 output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 23:21:57 UTC
From: n9wb
Topic: 9188 Message: 9188

Max:
Is the 85 to 90 watts on CW, carrier control fully up, Drive peaked for max ALC Plate and Load peaked for max watts ? On what band? What do you get on 40 meters? What if you use a dummy load as an antenna ? What is your IP in this condition? What is your High voltage in this condition? What is your line voltage when keyed down ?

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 31, 2006 8:12 AM
Subject: [TS-520_820_530_830] Re: Astatic D-104 mic with Trio TS-830

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Also a Heil Pro-40. Walt N9WB

Looking for help on a couple of things....

According to the meter on my AT230 I'm only getting about 85-90 watts out of my 830. I've swapped out the driver tube with a couple of spares I have and get the same results. I have a matched pair of extra 6146W's in the drawer I could try but am wondering...could the meter on the AT230 be off that much? I don't have anything to calibrate it against. Is there a certain plate current reading I should be achieving for a given power output? I can easily get 60 mA idling current, and my HV is good.

Following the last few threads on bassy audio....

I did a direct balanced modulator feed into the 830 by feeding the audio directly into C113(+). This cap is on the output of the final mic amplifier stage just before the modulator. To this I fed my Behringer mic which goes through a W2IHY EQ. With this setup I get nowhere near the average PEP output like I do when using the MC-50 into the mic plug. I know it isn't the modulator feed because I have also fed the W2IHY into the mic plug and get the same results. I will get 90W on a whistle, but the average barely goes over 50W. I have also swapped out the 2.4 Khz filter for a 3.0 Khz filter from a 930. Could there be an impedance mismatch? This combination worked great feeding my TS850. I did the modulator and filter mod in hopes of using the EQ for some nice tailored audio but with such a reduction in output power I'm scratching my head.

Suggestions on both issues would be appreciated.

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/434 - Release Date: 8/30/06

[Non-text portions of this message have been removed]

9189. RE: [TS-520_820_530_830] Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 22:18:28 UTC
From: William Bottger
Topic: 9183 Message: 9189

Hmm, err, maybe check the vacuum cleaner bag....

73

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill
Sent: Thursday, August 31, 2006 10:58 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Cable connector from VFO-520 to TS-520

Maybe just maybe I will get lucky and find this cable that someone has
laying around. Without it I am dead in the water. No TX or Rec. Any
help would be most appreciated. You might even know where i can order
one.
Item 2 My rig is missing the Jumper plug. I have tried several places
with no luck.
Any help would sure be appreciated.

73 Bill

[Non-text portions of this message have been removed]

9190. Re: [TS-520_820_530_830] Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 23:37:01 UTC
From: n9wb
Topic: 9183 Message: 9190

If you are talking about the 9 pin VFO socket, Get a standard size paper clip. It will be the same size diameter as the pins on the VFO dummy plug. Bend it into a u shape that is wide enough to span pins 8 and 9 on the VFO plug. Cut the legs to about 3/8 inch. Push it into the VFO plug pins 8 and 9 so it interconnects them. Pin 9 is the last pin counterclockwise or the pin just to the left of the gap. This is looking at the plug from the rear of the rig. Pin 8 is the next one to the left of 9. I got two 820s rigs at a sale for $90.00 for both because everybody thought that they were broken.

Vy 73, Walt N9WB

----- Original Message -----
From: Bill
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 31, 2006 11:57 AM
Subject: [TS-520_820_530_830] Cable connector from VFO-520 to TS-520

Maybe just maybe I will get lucky and find this cable that someone has
laying around. Without it I am dead in the water. No TX or Rec. Any
help would be most appreciated. You might even know where i can order
one.
Item 2 My rig is missing the Jumper plug. I have tried several places
with no luck.
Any help would sure be appreciated.

73 Bill

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/434 - Release Date: 8/30/06

[Non-text portions of this message have been removed]

9191. Re: [TS-520_820_530_830] Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 22:52:16 UTC
From: David Rust
Topic: 9183 Message: 9191

I was going to suggest the same thing, Walt, just jumper across the pins in the back of the radio. It'll work just great.
Dave W0DLR

[Non-text portions of this message have been removed]

9192. Still Looking For MC50 Cable...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 23:04:01 UTC
From: Ruben Echevarria
Topic: 9192 Message: 9192

Hello fellow hams, I'm still looking for a mic to rig coiled cable for an MC50 mic.
Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

9193. Re: no/low TX on TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-08-31 23:30:42 UTC
From: jon_77449
Topic: 9096 Message: 9193

Latest update.I think everything is on track,somewhat.I got this radio nearly free and I think it was put together from parts.Nothing seems to adjusted right on but maybe close.I start my last atempt by aligning the boards as per user manual and on 20meters I am able to get 100watts or more,sometimes fluttering back and forth to 200watts so I'm thinking it just needs to be aligned but many tuning slugs are cracked and I can't adjust them. So 20 meters is all I have to verify that it is putting out RF.Last problem,In fixing the power supply boards I must have knocked something loose because now my ALC meter is not reading anything and I don't see anything obvious,where does the ALC meter get its reading from where does it go through?
Thanks
Jon

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> If you are checking the 12.6 tube filament voltage, be sure the voltmeter is on AC volts.
> Walt
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, August 29, 2006 6:25 PM
> Subject: [TS-520_820_530_830] Re: no/low TX on TS-520
>
>
> What readings are you getting Jon ?>
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> <jledbetter8@> wrote:
> >
> > Ok, voltages on RECT board seem much better now,Then I tried
> > measuring voltages on the tubes and I'm not gettintg the 12.6v on
> > neither the driver or the finals,The tubes are lite up so the
> > heaters are on.
> > Jon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Jon, The more I study the Circuit, The more I am convinced there

> > is
> > > something on the Rectifier Board. The 210 Volt circuit feeds
the R5
> > > and R6 on the HV unit Board directly, Go back and check the
210
> > Volt
> > > circuit coming out of the rectifier Board. I'm betting that
there
> > may
> > > be a problem with R6 (Open) on that Board..
> > > Just an Idea.....
> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > > <jledbetter8@> wrote:
> > > >
> > > > I'm getting closer! The 0 ma reading on the ALC in tune
mode was
> > > > caused by resistors R5 & R6 on the HV board being as much
as 40%
> > or
> > > > higher out of range. I still have low rf out in CW
mode.Yes,
> > I've
> > > > cleaned the band switches by use of spray cleaner,I did'nt
take
> > them
> > > > apart for fear not getting them together again.ALC stays
1/4
> > scale
> > > > with CAR on full but does reduce with reduction of CAR.I'm
> > getting
> > > > pretty sure the problem might be R70 & R71 on the rf board
going
> > up
> > > > in value, but I'm nervous about attempting removal of the
RF
> > board
> > > > to get at them, even to test them cause they are buried so
deep.
> > > > Any thoughts?
> > > > Jon
> > > > --- In TS-520_820_530_830@yahoogroups.com, "jon_77449"
> > > > <jledbetter8@> wrote:
> > > > >
> > > > > Drive tube is fine,IP meter shows 0ma in tune position
and no
> > rf
> > > > > out.ALC meter is 1/4 scale at most and does'nt seem to

move.In
> > CW
> > > > mode
> > > > > I get from 5-8w on80m to 1-2 on 10m,all modes show 800v
on HV
> > > > meter.Q4
> > > > > & Q5 both show about 1volt low on their drain in TX &
RX. All
> > > > other
> > > > > transistors seem to check ok with the voltages listed in
the
> > > > manual.
> > > > > Please help I running out of ideas.
> > > > > Jon
> > > > > >
> > > > >
> > > >
> > >
>
>
>
>
>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.6/430 - Release Date:
8/28/06
>
>
> [Non-text portions of this message have been removed]
>

9194. TS-520 Neutalizing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 02:04:23 UTC
From: joe sloss
Topic: 9194 Message: 9194

Any secrets to neutralizing a 520S. Have tried on both 10& 15 m w/ good pair of RCA 6146A's and a new pair of GE 6146A's. Same results whether I listed to a nearby RX or measure RF output w/ RF probe & VTVM - SG switch OFF. I can get close on 15 but then 10 is off. Then again it may not be possible to achieve great neutralization!

Thanks

Joe k7mks

[Non-text portions of this message have been removed]

9195. Re: TS-520 Neutalizing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 02:37:40 UTC
From: Irv
Topic: 9194 Message: 9195

--- In TS-520_820_530_830@yahoogroups.com, "joe sloss" <k7mks@...>
wrote:
>
> Any secrets to neutralizing a 520S. Have tried on both 10& 15 m
w/ good pair of RCA 6146A's and a new pair of GE 6146A's. Same
results whether I listed to a nearby RX or measure RF output w/ RF
probe & VTVM - SG switch OFF. I can get close on 15 but then 10 is
off. Then again it may not be possible to achieve great
neutralization!
>
> Thanks
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]

Neutralization should be performed on the highest frequency. It's
purpose is to prevent a linear amplifier (which your final stage
is) from breaking into oscillation due to feedback between input
and output through the interelectrode capacitance. If the
neutralization is performed at the highest frequency, the feedback
will be good for all lower bands.

Irv VE6BP

9196. Re: Trio TS-830 output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 04:02:43 UTC
From: max_ve3tmt
Topic: 9188 Message: 9196

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> Is the 85 to 90 watts on CW, carrier control fully up, Drive peaked for max ALC Plate and Load peaked for max watts ? On what band? What do you get on 40 meters? What if you use a dummy load as an antenna ? What is your IP in this condition? What is your High voltage in this condition? What is your line voltage when keyed down ?
>
> Vy 73, Walt N9WB

Yes,
40m,
Using a 300W dummy load
240 mA
780V
not sure of the line voltage

May have been my tune up procedure, seems to be a little more than 100W now. Still curious about the adjustment for bringing up the low end and why I can't get more power using the W2IHY EQ combo.

Max

9197. Re: [TS-520_820_530_830] Re: Trio TS-830 output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 13:17:13 UTC
From: n9wb
Topic: 9188 Message: 9197

Max:
I have responded to this thread on the KenwoodMics group.
I do not want to start a long thread about audio here.

Anyone who wishes to join us, the group is KenwoodMics
http://groups.yahoo.com/group/KenwoodMics/

Vy 73, Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, August 31, 2006 11:02 PM
Subject: [TS-520_820_530_830] Re: Trio TS-830 output

[Non-text portions of this message have been removed]

9198. Re: Trio TS-830 output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 12:39:01 UTC
From: Ellen R
Topic: 9188 Message: 9198

Hi Max,

Here's something else to add to the equation. It sounds like you're aobserving the 85-90 watts out, while operating voice. I can remember way back in the 80s, reading questions & comments in QST & CQ magazine about this very same issue. Here is the gist of the responses to this question:

If it's occurring on CW keydown, then yes, you are a little down on power. If you're seeing this on voice, don't worry about it, the majority of power meters do not have fast enough response timewise, to catch power peaks, during voice operations. The transient time is too short, for the meters to react in time. One response to this power question I read (I think it was in QST in 1986 or 87) went so far as to say that with the (relatively) slow response time of power meters, the meter reading should only peak out at maybe 1/3 of your maximum (available) power output, during SSB operation. If it's over this, then you're probably overdriving your finals (can you say splatter & spurs? - I knew you could). Personally, I check maximum power capabilities with CW keydown. To check for maximum voice power, I use the ALC meter function on the rig. \

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> Is the 85 to 90 watts on CW, carrier control fully up, Drive peaked for max ALC Plate and Load peaked for max watts ? On what band? What do you get on 40 meters? What if you use a dummy load as an antenna ? What is your IP in this condition? What is your High voltage in this condition? What is your line voltage when keyed down ?
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, August 31, 2006 8:12 AM
> Subject: [TS-520_820_530_830] Re: Astatic D-104 mic with Trio TS-830
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:

> >
> > Also a Heil Pro-40. Walt N9WB
>
> Looking for help on a couple of things....
>
> According to the meter on my AT230 I'm only getting about 85-90
watts
> out of my 830. I've swapped out the driver tube with a couple of
> spares I have and get the same results. I have a matched pair of
extra
> 6146W's in the drawer I could try but am wondering...could the
meter
> on the AT230 be off that much? I don't have anything to calibrate
it
> against. Is there a certain plate current reading I should be
> achieving for a given power output? I can easily get 60 mA idling
> current, and my HV is good.
>
> Following the last few threads on bassy audio....
>
> I did a direct balanced modulator feed into the 830 by feeding the
> audio directly into C113(+). This cap is on the output of the
final
> mic amplifier stage just before the modulator. To this I fed my
> Behringer mic which goes through a W2IHY EQ. With this setup I get
> nowhere near the average PEP output like I do when using the MC-50
> into the mic plug. I know it isn't the modulator feed because I
have
> also fed the W2IHY into the mic plug and get the same results. I
will
> get 90W on a whistle, but the average barely goes over 50W. I have
> also swapped out the 2.4 Khz filter for a 3.0 Khz filter from a
930.
> Could there be an impedance mismatch? This combination worked
great
> feeding my TS850. I did the modulator and filter mod in hopes of
using
> the EQ for some nice tailored audio but with such a reduction in
> output power I'm scratching my head.
>
> Suggestions on both issues would be appreciated.
>
> Max
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.7/434 - Release Date:
8/30/06
>
>
> [Non-text portions of this message have been removed]
>

9199. Re: [TS-520_820_530_830] TS-520 Neutalizing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 13:37:53 UTC
From: n9wb
Topic: 9194 Message: 9199

The TS-520 should be netrulized at 28.5 Mhz. 10 A or B Band. Once done, on other frequencies it will not be as well netrulized. This is normal for Multi-band rigs and causes no problem.

This must be done with the final unit cover on.

Vy 73, Walt N9WB

----- Original Message -----
From: joe sloss
To: ts-520_820_530_830@yahoogroups.com
Sent: Thursday, August 31, 2006 9:04 PM
Subject: [TS-520_820_530_830] TS-520 Neutalizing

Any secrets to neutralizing a 520S. Have tried on both 10& 15 m w/ good pair of RCA 6146A's and a new pair of GE 6146A's. Same results whether I listed to a nearby RX or measure RF output w/ RF probe & VTVM - SG switch OFF. I can get close on 15 but then 10 is off. Then again it may not be possible to achieve great neutralization!

Thanks

Joe k7mks

9200. Re: [TS-520_820_530_830] Lowering bass response on the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 16:08:11 UTC
From: Rick May
Topic: 9187 Message: 9200

Hi Max and All,

Adjusting your carrier set points will not neccesarily drop your audio response curve. The coupling caps and bypass caps need to be changed out as the radio might not pass <350hz. or > 2600hz regardless of your carrier set points. I did mine a while ago and documented everything if I can find the notebook. Take a look at a program called HamAlyzer. There is a 30 day trial period for you to play with it. You plug your audio into your sound card input and it works as a spectrum analyzer. You can use it to sweep your TX and RX audio I used the 830S' calibrate signal to plot my filter passband and put the jpeg in my photos section. I have 2.4khz filters in both I.F.'s. You can inject tones into your mic input (transmitting to a dummy load , please) and pull your audio out your monitor function for TX curves.
You will get better results if you pull WWV's 500 or 600 hz calibrate tones and use HamAlyzer to set your carrier oscillators. You can get within 1 or 2 hz so your radio is on frequency then play with the coupling caps for frequency response. Be very careful with the product detector coupling caps. If you use too large a value of capacitor, your audio response will widen but you will get head rattling pops on CW with headphones on.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: I've got the 3 Khz SSB filter in the radio but the response curve is
too high. I want to adjust the carrier set points bring the bottom end
of my TX audio down say to aroind 200 hz. Suggestions?

Max VE3TMT

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9201. Re: [TS-520_820_530_830] TS-520 Neutalizing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 16:56:32 UTC
From: John Harp
Topic: 9194 Message: 9201

That's why you go out to the 28.5. Some times neutralization can be more difficult than others. This is especially true if you don't have a matched pair. It doesn't mean you can't use tubes that are not a matched pair, it just means they can be a little more difficult to neutralize. For the process some people just go the route of spending a little more on matched pairs for ease of neutralizing or they just don't know the truth about matching v.s. not.

n9wb <n9wb@...> wrote:
The TS-520 should be netrulized at 28.5 Mhz. 10 A or B Band. Once done, on other frequencies it will not be as well netrulized. This is normal for Multi-band rigs and causes no problem.

This must be done with the final unit cover on.

Vy 73, Walt N9WB

----- Original Message -----
From: joe sloss
To: ts-520_820_530_830@yahoogroups.com
Sent: Thursday, August 31, 2006 9:04 PM
Subject: [TS-520_820_530_830] TS-520 Neutalizing

Any secrets to neutralizing a 520S. Have tried on both 10& 15 m w/ good pair of RCA 6146A's and a new pair of GE 6146A's. Same results whether I listed to a nearby RX or measure RF output w/ RF probe & VTVM - SG switch OFF. I can get close on 15 but then 10 is off. Then again it may not be possible to achieve great neutralization!

Thanks

Joe k7mks

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9202. Re: [TS-520_820_530_830] TS-520 Neutalizing

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 17:05:08 UTC
From: John Harp
Topic: 9194 Message: 9202

Joe one other thing that helps, is to try to use the same kind of tube your radio came with. For example: both my TS-830S radios came with 6146B's. sometimes the radios work better with the same kind of tubes in them. I've tried W's for running my linear and they gave me no problem, but others have said they don't work as well in thier radios. for what it's worth. Passing on what I've encountered.

joe sloss <k7mks@...> wrote: Any secrets to neutralizing a 520S. Have tried on both 10& 15 m w/ good pair of RCA 6146A's and a new pair of GE 6146A's. Same results whether I listed to a nearby RX or measure RF output w/ RF probe & VTVM - SG switch OFF. I can get close on 15 but then 10 is off. Then again it may not be possible to achieve great neutralization!

Thanks

Joe k7mks

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9203. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 17:14:06 UTC
From: John Harp
Topic: 9154 Message: 9203

Ellen, this stub trap is new to me. Where is the stub trap placed? I'm getting ready to place 2 back in the shack.

Ellen R <ellenjoanne2003@...> wrote: Hi Frank,

I have a lot of experience with VHF & UHF, since I do a fair amount of weak signal work (SSB & CW) from 6 through 432. Yeah your RF field stregth wqith the magmount next to the HF antenna is quite high. BUT don't forget, you're dealing with harmonics reaching 2m (I assume you're on 2m with your handheld), from at the closest, 10m. That's about the 6th harmonic, and it's going to be down at least 40dB. BUT, handhelds do have wimpy filters in them, and you may still end up with at the very least, overload & serious desense from either the harmonics, or intermod. If you're running serious power, yes, there may be a small chance of frying the front end of the HT.

You might want to do, what many of us who contest on HF and above do when multiple radios are running, with antennas close to each other (because oftentime the rigs being used in a multi-op will overload each other's receiver front ends), either install a 2m bandpass filter in the feedline to the HT, or else build a stub trap for 2m, that will also act a as a bandpass filter, and put it in the feeline path. One of these two items (which are pretty similar, but are just built differently), should do the trick.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Valued Customer" <defaultprofile@...> wrote:
>
> Hello group. I hope this isn't too far off topic, but I know there's
> a lot of smart cookies in here!
>
> I'm wondering if my VHF/UHF handheld can be damaged (or other
> problems!) from the HF inverted-V dipole if they're in the same
> 'field' of each other? The mag-mount is within the V of the antenna
> and the closest distance is about a foot from one of the dipole ends.
>
> The HF dipole is four wires, tuned to 20m and 40m, while the handheld
> is a dual-band UHF/VHF mag-mount.
>

> I keep the handheld running 24/7 for streaming the local repeater to
> the internet and wanted to make sure that when I'm using my TS-520
on
> full power (100w), it won't fry my little radio!
>
> 73, Frank K2NCC
>

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9204. Re: can HF transmit overload UHF/VHF radio?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 18:26:24 UTC
From: Ellen R
Topic: 9154 Message: 9204

HI John,

Actually I misnamed them,they are called Coaxial Stub filters.
Here's a couple of URLs for info, and for building them:

http://64.233.167.104/search?
q=cache:3QfAUBETq1EJ:www.radagast.org/~dplatt/hamradio/K6OIK-
filters.pdf+stub+trap+filters&hl=en&gl=us&ct=clnk&cd=1

http://www.bigskyspaces.com/w7gj/filters.htm

At the second URL (which does a decent job of explaining Coaxial Stub
Filters), go down the page to where it says "STUBS", for the
explanation on them, and where to get addtional info on building
them. They're pretty cheap to build. When I was more into
contesting than I am nowadays, I used to to get NCJ. It had an
article on building them. Multi-op contest stations run into your
problem all of the time, and this is one of the ways they deal with
it.

Well, back to work for me,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Ellen, this stub trap is new to me. Where is the stub trap placed?
I'm getting ready to place 2 back in the shack.
>
> Ellen R <ellenjoanne2003@...> wrote: Hi Frank,
>
> I have a lot of experience with VHF & UHF, since I do a fair amount
> of weak signal work (SSB & CW) from 6 through 432. Yeah your RF
> field stregth wqith the magmount next to the HF antenna is quite
> high. BUT don't forget, you're dealing with harmonics reaching 2m
(I
> assume you're on 2m with your handheld), from at the closest, 10m.
> That's about the 6th harmonic, and it's going to be down at least
> 40dB. BUT, handhelds do have wimpy filters in them, and you may
> still end up with at the very least, overload & serious desense
from
> either the harmonics, or intermod. If you're running serious power,
> yes, there may be a small chance of frying the front end of the HT.
>
> You might want to do, what many of us who contest on HF and above
do

> when multiple radios are running, with antennas close to each other
> (because oftentime the rigs being used in a multi-op will overload
> each other's receiver front ends), either install a 2m bandpass
> filter in the feedline to the HT, or else build a stub trap for 2m,
> that will also act a as a bandpass filter, and put it in the
feeline
> path. One of these two items (which are pretty similar, but are
just
> built differently), should do the trick.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Valued Customer"
> <defaultprofile@> wrote:
> >
> > Hello group. I hope this isn't too far off topic, but I know
> there's
> > a lot of smart cookies in here!
> >
> > I'm wondering if my VHF/UHF handheld can be damaged (or other
> > problems!) from the HF inverted-V dipole if they're in the same
> > 'field' of each other? The mag-mount is within the V of the
antenna
> > and the closest distance is about a foot from one of the dipole
> ends.
> >
> > The HF dipole is four wires, tuned to 20m and 40m, while the
> handheld
> > is a dual-band UHF/VHF mag-mount.
> >
> > I keep the handheld running 24/7 for streaming the local repeater
to
> > the internet and wanted to make sure that when I'm using my TS-
520
> on
> > full power (100w), it won't fry my little radio!
> >
> > 73, Frank K2NCC
> >
>
>
>
>
>
>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get things
done faster.
>

> [Non-text portions of this message have been removed]
>

9205. Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 18:33:30 UTC
From: Ellen R
Topic: 9154 Message: 9205

John, you might also want to check out PAR Electronics. They make 2m filters, if you don't want to build one. Here's their URL for filters: http://www.parelectronics.com/amateur.htm

Ellen - AF9j

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Ellen, this stub trap is new to me. Where is the stub trap placed? I'm getting ready to place 2 back in the shack.
>
> Ellen R <ellenjoanne2003@...> wrote: Hi Frank,
>
> I have a lot of experience with VHF & UHF, since I do a fair amount
> of weak signal work (SSB & CW) from 6 through 432. Yeah your RF
> field stregth wqith the magmount next to the HF antenna is quite
> high. BUT don't forget, you're dealing with harmonics reaching 2m (I
> assume you're on 2m with your handheld), from at the closest, 10m.
> That's about the 6th harmonic, and it's going to be down at least
> 40dB. BUT, handhelds do have wimpy filters in them, and you may
> still end up with at the very least, overload & serious desense from
> either the harmonics, or intermod. If you're running serious power,
> yes, there may be a small chance of frying the front end of the HT.
>
> You might want to do, what many of us who contest on HF and above do
> when multiple radios are running, with antennas close to each other
> (because oftentime the rigs being used in a multi-op will overload
> each other's receiver front ends), either install a 2m bandpass
> filter in the feedline to the HT, or else build a stub trap for 2m,
> that will also act a as a bandpass filter, and put it in the feeline
> path. One of these two items (which are pretty similar, but are just
> built differently), should do the trick.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Valued Customer"
> <defaultprofile@> wrote:
> >

> > Hello group. I hope this isn't too far off topic, but I know
> there's
> > a lot of smart cookies in here!
> >
> > I'm wondering if my VHF/UHF handheld can be damaged (or other
> > problems!) from the HF inverted-V dipole if they're in the same
> > 'field' of each other? The mag-mount is within the V of the
antenna
> > and the closest distance is about a foot from one of the dipole
> ends.
> >
> > The HF dipole is four wires, tuned to 20m and 40m, while the
> handheld
> > is a dual-band UHF/VHF mag-mount.
> >
> > I keep the handheld running 24/7 for streaming the local repeater
to
> > the internet and wanted to make sure that when I'm using my TS-
520
> on
> > full power (100w), it won't fry my little radio!
> >
> > 73, Frank K2NCC
> >
>
>
>
>
>
>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get things
done faster.
>
> [Non-text portions of this message have been removed]
>

9206. 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 19:56:36 UTC
From: Paul
Topic: 9183 Message: 9206

Ok,

I have an Ebay 520S and a D-104 mic (nonamplified). Everything seems to be fine with each unit. I cannot get them to work together.

I tune up the 520s by the book. Keying the mic keys the transmitter, but it seems to lock up the transmitter, also. I unplug the mic and it frees the transmitter.

What am i doing wrong?

Paul

9207. Re: [TS-520_820_530_830] 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 20:04:46 UTC
From: David Rust
Topic: 9183 Message: 9207

Paul, you may have a wire whisker on a cable inside the mike someplace that is touching and keeping it keyed. The problem is in your mike cord or keying circuit. If the mike base had a push or mash to talk switch, it may be sticking.
Dave W0DLR

[Non-text portions of this message have been removed]

9208. Re: 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 20:06:49 UTC
From: Gordon
Topic: 9183 Message: 9208

Sounds like your VOX delay is toolong, holding the transmitter on
transmit. Check your VOX settings, or turn the VOX off and see how
the mike works.

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Paul" <paulchristie@...>
wrote:
>
> Ok,
>
> I have an Ebay 520S and a D-104 mic (nonamplified). Everything seems
> to be fine with each unit. I cannot get them to work together.
>
> I tune up the 520s by the book. Keying the mic keys the transmitter,
> but it seems to lock up the transmitter, also. I unplug the mic and it
> frees the transmitter.
>
> What am i doing wrong?
>
> Paul
>

9209. Re: [TS-520_820_530_830] Re: 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 20:29:11 UTC
From: David Rust
Topic: 9183 Message: 9209

Gordon, you are probably right, I never give the vox a thought since I hardly ever use one. I hope I didn't stear the fellow wrong.
Dave W0DLR

[Non-text portions of this message have been removed]

9210. Re: 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 20:35:34 UTC
From: baumbrent
Topic: 9183 Message: 9210

You may also want to isolate the problem by borrowing another mic
and then see if the radio still locks up in transmit. If your VOX is
off and it still locks up then we need to look at other things like
a sticky T/R relay. Also check the locking clip that holds down the
PTT bar on the side of the stalk. Is it pinching the PTT bar and
holding it in the ON position?
Good luck. My 520SE with the D-104 gets consistently good audio
reports, and I think you will enjoy yours once the kinks are worked
out.
K7MEI, Brent

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Sounds like your VOX delay is toolong, holding the transmitter on
> transmit. Check your VOX settings, or turn the VOX off and see how
> the mike works.
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "Paul" <paulchristie@>
> wrote:
> >
> > Ok,
> >
> > I have an Ebay 520S and a D-104 mic (nonamplified). Everything
seems
> > to be fine with each unit. I cannot get them to work together.
> >
> > I tune up the 520s by the book. Keying the mic keys the
transmitter,
> > but it seems to lock up the transmitter, also. I unplug the mic
and it
> > frees the transmitter.
> >
> > What am i doing wrong?
> >
> > Paul
> >
>

9211. RE: [TS-520_820_530_830] Re: 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 20:46:05 UTC
From: Ken Gunton
Topic: 9183 Message: 9211

Take an ohmmeter and put it across the contacts
in the connector at the end of the cable. Close
and open the switch to see if it makes any difference.
Are the Astatics the ones with the sliding holddown
clamp? If so, slide it back down (up? I forget) and see if that makes
a difference.

Just another opinion.

Ken, W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of baumbrent
Sent: Friday, September 01, 2006 4:36 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 520S

You may also want to isolate the problem by borrowing another mic
and then see if the radio still locks up in transmit. If your VOX is
off and it still locks up then we need to look at other things like
a sticky T/R relay. Also check the locking clip that holds down the
PTT bar on the side of the stalk. Is it pinching the PTT bar and
holding it in the ON position?
Good luck. My 520SE with the D-104 gets consistently good audio
reports, and I think you will enjoy yours once the kinks are worked
out.
K7MEI, Brent

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Sounds like your VOX delay is toolong, holding the transmitter on
> transmit. Check your VOX settings, or turn the VOX off and see how
> the mike works.
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "Paul" <paulchristie@>
> wrote:
> >
> > Ok,
> >
> > I have an Ebay 520S and a D-104 mic (nonamplified). Everything
seems
> > to be fine with each unit. I cannot get them to work together.
> >

> > I tune up the 520s by the book. Keying the mic keys the
transmitter,
> > but it seems to lock up the transmitter, also. I unplug the mic
and it
> > frees the transmitter.
> >
> > What am i doing wrong?
> >
> > Paul
> >
>

Yahoo! Groups Links

9212. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-01 22:19:15 UTC
From: John Harp
Topic: 9154 Message: 9212

I've seen them before Ellen. It's justy that I've heard of quarter-wave stubs for matching lines,but I hadn't heard of these stubs being used for traps. I wondered where it was to be placed, in frony of the 2 meter or the Linear? Right at the machine or a distance back? and so on. Bac 2U Ellen.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9213. Re: [TS-520_820_530_830] Lowering bass response on the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 09:27:27 UTC
From: n9wb
Topic: 9187 Message: 9213

Rick:
When feeding the balanced modulator directly, the only capacitor that would be of concern is the one going into the balanced modulator.
Walt N9WB
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 01, 2006 11:08 AM
Subject: Re: [TS-520_820_530_830] Lowering bass response on the 830?

Hi Max and All,

Adjusting your carrier set points will not neccesarily drop your audio response curve. The coupling caps and bypass caps need to be changed out as the radio might not pass <350hz. or > 2600hz regardless of your carrier set points. I did mine a while ago and documented everything if I can find the notebook. Take a look at a program called HamAlyzer. There is a 30 day trial period for you to play with it. You plug your audio into your sound card input and it works as a spectrum analyzer. You can use it to sweep your TX and RX audio I used the 830S' calibrate signal to plot my filter passband and put the jpeg in my photos section. I have 2.4khz filters in both I.F.'s. You can inject tones into your mic input (transmitting to a dummy load , please) and pull your audio out your monitor function for TX curves.
You will get better results if you pull WWV's 500 or 600 hz calibrate tones and use HamAlyzer to set your carrier oscillators. You can get within 1 or 2 hz so your radio is on frequency then play with the coupling caps for frequency response. Be very careful with the product detector coupling caps. If you use too large a value of capacitor, your audio response will widen but you will get head rattling pops on CW with headphones on.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: I've got the 3 Khz SSB filter in the radio but the response curve is
too high. I want to adjust the carrier set points bring the bottom end
of my TX audio down say to aroind 200 hz. Suggestions?

Max VE3TMT

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.405 / Virus Database: 268.11.7/435 - Release Date: 8/31/06

[Non-text portions of this message have been removed]

9214. Re: [TS-520_820_530_830] 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 10:00:14 UTC
From: n9wb
Topic: 9183 Message: 9214

Paul:

First, check to be sure that the vox is off as Gordon suggested. If it still locks up check the plug wiring.

Assuming that you have the original 4 wire cord on this mike base, be sure that your plug is wired as follows:
1. White (mike audio)
2. Red (PTT)
3. Black (switching ground)
4. Shield (audio ground)
If there is a switch, place it on R.

If this does not make sense or if you have a 6 wire cord, write me back and give me more information about your stand.

Vy 73, Walt N9WB

----- Original Message -----
From: Paul
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 01, 2006 2:56 PM
Subject: [TS-520_820_530_830] 520S

Ok,

I have an Ebay 520S and a D-104 mic (nonamplified). Everything seems to be fine with each unit. I cannot get them to work together.

I tune up the 520s by the book. Keying the mic keys the transmitter, but it seems to lock up the transmitter, also. I unplug the mic and it frees the transmitter.

What am i doing wrong?

Paul

9215. Re: 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 10:52:10 UTC
From: K4MT
Topic: 9183 Message: 9215

Paul:

I had the same problem with my 520 while hooking up my trusty old turner mic.

What I discovered was that the PTT keying lines must be seperate. Many mics inside the mic tie one side of the PTT to ground which is what my turner did. This caused the 520 to key up even when the mic PTT was not pressed. I had to take the two ptt lines and connect them to the switch inside the mic removing the connection to ground on one of the lines.

Use a meter and see if the mic ground and one of the ptt wires are connected. If so remove that connection in the mic and all should be well.

I have not looked at the schematic to see why the 520 behaves this way but it does.

Good Luck

Gary K4MT

9216. Re: [TS-520_820_530_830] Re: 520S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 13:29:05 UTC
From: Rahul Kapoor
Topic: 9183 Message: 9216

too much RF in the shack ? check grounding.

baumbrent <brentbaum5323@...> wrote: You may also want to isolate the problem by borrowing another mic
and then see if the radio still locks up in transmit. If your VOX is
off and it still locks up then we need to look at other things like
a sticky T/R relay. Also check the locking clip that holds down the
PTT bar on the side of the stalk. Is it pinching the PTT bar and
holding it in the ON position?
Good luck. My 520SE with the D-104 gets consistently good audio
reports, and I think you will enjoy yours once the kinks are worked
out.
K7MEI, Brent

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Sounds like your VOX delay is toolong, holding the transmitter on
> transmit. Check your VOX settings, or turn the VOX off and see how
> the mike works.
>
> Gordon
> N6WK
> --- In TS-520_820_530_830@yahoogroups.com, "Paul" <paulchristie@>
> wrote:
> >
> > Ok,
> >
> > I have an Ebay 520S and a D-104 mic (nonamplified). Everything
seems
> > to be fine with each unit. I cannot get them to work together.
> >
> > I tune up the 520s by the book. Keying the mic keys the
transmitter,
> > but it seems to lock up the transmitter, also. I unplug the mic
and it
> > frees the transmitter.
> >
> > What am i doing wrong?
> >
> > Paul
> >
>

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9218. TS-820 IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 16:20:51 UTC
From: w5rkl
Topic: 9218 Message: 9218

Morning everyone,

I'm looking for a good, working, TS-820(S) IF board (X48-1150-00). I'm not concerned whether the filters are attached. The IF board is located on the left side of the 820. The top and bottom covers will have to be removed. There are a series of plugs located under the chassis that need to be pulled and 3 mounting screws located on the left side of the 820 must also be removed. Care should be taken to ensure none of the potentiometers located on the edge of the board are not damaged or turned. Include the angle mounted bracket with the board please.

If your board doesn't have the filters, that's fine, I have 2 working filters that I can transfer from my IF board to the new board.

If you have an old TS-820 with a known working IF board and would be willing to sell the IF board, please let me know. Include your price (including shipping to zip code 74953).

Thanks and 73's,

Mike
W5RKL

9219. Re: [TS-520_820_530_830] TS-820 IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 18:38:58 UTC
From: n9wb
Topic: 9218 Message: 9219

What's wrong with your IF board. Why not fix it? We can help you.
Vy 73, Walt N9WB

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 02, 2006 11:20 AM
Subject: [TS-520_820_530_830] TS-820 IF board

Morning everyone,

I'm looking for a good, working, TS-820(S) IF board (X48-1150-00). I'm not concerned whether the filters are attached. The IF board is located on the left side of the 820. The top and bottom covers will have to be removed. There are a series of plugs located under the chassis that need to be pulled and 3 mounting screws located on the left side of the 820 must also be removed. Care should be taken to ensure none of the potentiometers located on the edge of the board are not damaged or turned. Include the angle mounted bracket with the board please.

If your board doesn't have the filters, that's fine, I have 2 working filters that I can transfer from my IF board to the new board.

If you have an old TS-820 with a known working IF board and would be willing to sell the IF board, please let me know. Include your price (including shipping to zip code 74953).

Thanks and 73's,

Mike
W5RKL

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/06

[Non-text portions of this message have been removed]

9220. Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 20:42:45 UTC
From: Bill Wilkinson
Topic: 9183 Message: 9220

HI to All that responded:
I have tried the PAPER CLIP trick and by gosh I can now rec. However still no TX. I wonder what else this illustrious group can suggest?
Thanks in advance.
Bill

[Non-text portions of this message have been removed]

9221. Re: [TS-520_820_530_830] Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 21:25:52 UTC
From: David Rust
Topic: 9183 Message: 9221

Bill,
A second paper clip perhaps!....just kidding.

I don't know why it wouldn't transmit if it will receive. The more experienced will have to help, I would be stumped too.
73
Dave W0DLR

[Non-text portions of this message have been removed]

9222. no reception of wwv

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-02 22:05:35 UTC
From: Sergio Potes
Topic: 9222 Message: 9222

I ca'nt receive wwv at all. I try the alignment procedure in the
manual and
I still do receive wwv.
The procedure calls for adjusting t4 & t5 and them t3 for maximum
signal.
I will like to know if anything else I have to do.
Thank you in advance for any help. AE4TO

9223. Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 00:16:12 UTC
From: Gordon
Topic: 9183 Message: 9223

Bill,
Give us some details. What does it do when you try to Transmit ?
do you have Idle Bias of 60 ma? Do you show High Voltage? if so, What
is the reading?
Are the tube filaments lit ?
There are so many questions we need answeres for and then we can help
you figure it out.
Please pass along as much info as you can. There are many sharp minds
here to help you.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Wilkinson"
<bwilkinson@...> wrote:
>
> HI to All that responded:
> I have tried the PAPER CLIP trick and by gosh I can now rec. However
still no TX. I wonder what else this illustrious group can suggest?
> Thanks in advance.
> Bill
>
> [Non-text portions of this message have been removed]
>

9224. Re: no reception of wwv

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 00:17:12 UTC
From: Gordon
Topic: 9222 Message: 9224

Hi Sergio,
What rig are you working on ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Sergio Potes"
<verotex@...> wrote:
>
> I ca'nt receive wwv at all. I try the alignment procedure in the
> manual and
> I still do receive wwv.
> The procedure calls for adjusting t4 & t5 and them t3 for maximum
> signal.
> I will like to know if anything else I have to do.
> Thank you in advance for any help. AE4TO
>

9225. transmit out of specs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 00:35:42 UTC
From: Valued Customer
Topic: 9225 Message: 9225

Hello group!

The manual says the TS-520 will transmi in the 80M from 3.50 to 4.00. But the dial will spin well past 4.10. Does that mean I can transmit (ie MARS) above 4.0?

Will this radio transmit on any frequency it can receive? I don't see anything in the manual that says any range is 'blocked', but maybe I'm missing something, likely in my head.

Thanks again!

73, Frank K2NCC

9226. TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 02:08:38 UTC
From: Ruben Echevarria
Topic: 9226 Message: 9226

Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned to the right? Also have no RF output. SG witch checked. Finals and driver replaced. This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen could not find the problem. But when I sent it to him there was no ALC indication on the meter at all. Now there is but it looks like it was wired to indicate some reading and I believe
that it's not a true reading. Basically I can't get any RF output although it recieves. Only piece of test equipment I have is a multimeter.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

9227. Re: TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 02:39:41 UTC
From: Gordon
Topic: 9226 Message: 9227

Ruben,
I had that same problem with the ALC pegging on an 830 about a year ago. At that time, I wasn't repiaring my own gear and I sent it out to be repired. Turned out there was an FET installed wrong (backwards) causing the ALC to peg. However, My 830 would still transmit just fine. You could always take the non working 830 and one by one swap the boards with your working 830 to isolate which board is causing your problems. Have you checked the Relay ? Bad contacts could cause your condition.
My latest 830 is almost ready. I replaced the bandswitch couplers and all that works great now. The couplers that K4EAA sells are very nice and easy to install.
I just have to do a little more cleaning of the 12 meter contacts on the Band switch, and I'll sell her in search for another that needs help.. hi hi..

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned
> to the right? Also have no RF output. SG witch checked. Finals and driver replaced.
> This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen
> could not find the problem. But when I sent it to him there was no ALC indication on the
> meter at all. Now there is but it looks like it was wired to indicate some reading and I believe
> that it's not a true reading. Basically I can't get any RF output although it recieves.
> Only piece of test equipment I have is a multimeter.
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> http://www.moparts.org/moparts/picture/members/6/Ruben.html
>
> [Non-text portions of this message have been removed]
>

9228. Re: transmit out of specs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 02:46:57 UTC
From: Gordon
Topic: 9225 Message: 9228

Hi Frank,
Not sure about the 520 as I recently sold mine, but I do know my
TS-850S/AT will transmit way out of each end of every Band.
It goes about 100 to 500 kc each way on every band before it will not
transmit any longer. For example, on 20 meters, it will trasmit
anywhere from 13.500 to 14.500. Although, I am wise enough to stay
inside the Amateur Bands !
So I would say, Yes, I am sure your 520 will also trasmit anywhere the
VFO will go.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Valued Customer"
<defaultprofile@...> wrote:
>
> Hello group!
>
> The manual says the TS-520 will transmi in the 80M from 3.50 to 4.00.
> But the dial will spin well past 4.10. Does that mean I can
> transmit (ie MARS) above 4.0?
>
> Will this radio transmit on any frequency it can receive? I don't see
> anything in the manual that says any range is 'blocked', but maybe I'm
> missing something, likely in my head.
>
> Thanks again!
>
> 73, Frank K2NCC
>

9229. Re: [TS-520_820_530_830] Re: TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 02:56:43 UTC
From: Ruben Echevarria
Topic: 9226 Message: 9229

By the way..It's true there are 2 versions of the TS830S the Gold and The Silver
My original one has the Gold nameplate and the number 2 has the Silver nameplate. For a while I had doubts but now I have the proof right here,

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 2, 2006 10:39:41 PM
Subject: [TS-520_820_530_830] Re: TS830S ALC Meter

Ruben,
I had that same problem with the ALC pegging on an 830 about a year ago. At that time, I wasn't repiaring my own gear and I sent it out to be repired. Turned out there was an FET installed wrong (backwards) causing the ALC to peg. However, My 830 would still transmit just fine. You could always take the non working 830 and one by one swap the boards with your working 830 to isolate which board is causing your problems. Have you checked the Relay ? Bad contacts could cause your condition.
My latest 830 is almost ready. I replaced the bandswitch couplers and all that works great now. The couplers that K4EAA sells are very nice and easy to install.
I just have to do a little more cleaning of the 12 meter contacts on the Band switch, and I'll sell her in search for another that needs help.. hi hi..

Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria <ka2hhb_2000@ ...> wrote:
>
> Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned
> to the right? Also have no RF output. SG witch checked. Finals and driver replaced.
> This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen
> could not find the problem. But when I sent it to him there was no ALC indication on the
> meter at all. Now there is but it looks like it was wired to indicate some reading and I believe

> that it's not a true reading. Basically I can't get any RF output
although it recieves.
> Only piece of test equipment I have is a multimeter.
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9230. Re: [TS-520_820_530_830] Re: TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 02:55:50 UTC
From: David Rust
Topic: 9226 Message: 9230

Gordon, what do you use for a contact cleaner in the bandswitch. Only thing I have access to locally is some oily tuner cleaner at Radio Shack, so I'll have to order something. I have this super nice 530s that I think it would be a good idea to spray the bandswitch parts, then I'll be complete. I replaced the nylon coupler with K4EAA's brass coupler, easy to put in, mine both slid out the final cage out the front. Plenty of room to get the old nylon one out too.
Dave

[Non-text portions of this message have been removed]

9231. Re: transmit out of specs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 03:24:01 UTC
From: Valued Customer
Topic: 9225 Message: 9231

Sweet. Thank you. Now to see if I can get a 60 meter dipole up w/the
rest of them!

I have a 20/40 meter dipole, cut to tuned, four wires. Can I just
attach another pair for 60M (oh about 45'each length I think) to the
ones I have without having to string up a separate antenna?

Frank K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Frank,
> Not sure about the 520 as I recently sold mine, but I do know my
> TS-850S/AT will transmit way out of each end of every Band.
> It goes about 100 to 500 kc each way on every band before it will not
> transmit any longer. For example, on 20 meters, it will trasmit
> anywhere from 13.500 to 14.500. Although, I am wise enough to stay
> inside the Amateur Bands !
> So I would say, Yes, I am sure your 520 will also trasmit anywhere the
> VFO will go.
>
> Gordon

9232. RE: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 03:44:10 UTC
From: Ken Gunton
Topic: 9226 Message: 9232

You might want to check your RF Gain control. If it's
even partially turned counterclockwise it may run up
the ALC meter.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ruben Echevarria
Sent: Saturday, September 02, 2006 10:09 PM
To: Yahoo Groups
Subject: [TS-520_820_530_830] TS830S ALC Meter

Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned to the right? Also have no RF output. SG witch checked. Finals and driver replaced. This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen could not find the problem. But when I sent it to him there was no ALC indication on the meter at all. Now there is but it looks like it was wired to indicate some reading and I believe that it's not a true reading. Basically I can't get any RF output although it recieves. Only piece of test equipment I have is a multimeter.

Ruben Echevarria
ka2hhb_2000@...
exracer1@... http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

Yahoo! Groups Links

9233. Re: [TS-520_820_530_830] Lowering bass response on the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 04:31:32 UTC
From: Rick May
Topic: 9187 Message: 9233

Walt,

I never have tried to feed the balanced modulator directlly. I was talking about changing out the product detector coupling and audio bypass caps for better receive audio.

73' Rick KC0HH

n9wb <n9wb@...> wrote: Rick:
When feeding the balanced modulator directly, the only capacitor that would be of concern is the one going into the balanced modulator.
Walt N9WB
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 01, 2006 11:08 AM
Subject: Re: [TS-520_820_530_830] Lowering bass response on the 830?

Hi Max and All,

Adjusting your carrier set points will not neccesarily drop your audio response curve. The coupling caps and bypass caps need to be changed out as the radio might not pass <350hz. or > 2600hz regardless of your carrier set points. I did mine a while ago and documented everything if I can find the notebook. Take a look at a program called HamAlyzer. There is a 30 day trial period for you to play with it. You plug your audio into your sound card input and it works as a spectrum analyzer. You can use it to sweep your TX and RX audio I used the 830S' calibrate signal to plot my filter passband and put the jpeg in my photos section. I have 2.4khz filters in both I.F.'s. You can inject tones into your mic input (transmitting to a dummy load , please) and pull your audio out your monitor function for TX curves.
You will get better results if you pull WWV's 500 or 600 hz calibrate tones and use HamAlyzer to set your carrier oscillators. You can get within 1 or 2 hz so your radio is on frequency then play with the coupling caps for frequency response. Be very careful with the product detector coupling caps. If you use too large a value of capacitor, your audio response will widen but you will get head rattling pops on CW with headphones on.

73' Rick KC0HH
Lamar, Colorado

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9234. Re: transmit out of specs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 05:36:55 UTC
From: Roberto Baca Barnard
Topic: 9225 Message: 9234

The 820 transmits a wee bit out of 'range' but of course one must not abuse as it's against regs. Worked a German station on 80m and swear to God (in Valhalla) he was just on the edge of the band. To zero beat him in I was on top of him. I suppose only Bush and Cheney can break regulations of any sort with impunity, but that's another story. Tnx for the xtal suggestion now running XTAL fix fq and it's great. Must fix the Heath keyer grounding problem and will be set for a Fall of CW mirth.

--- In TS-520_820_530_830@yahoogroups.com, "Valued Customer" <defaultprofile@...> wrote:
>
> Sweet. Thank you. Now to see if I can get a 60 meter dipole up w/the
> rest of them!
>
> I have a 20/40 meter dipole, cut to tuned, four wires. Can I just
> attach another pair for 60M (oh about 45'each length I think) to the
> ones I have without having to string up a separate antenna?
>
> Frank K2NCC
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Frank,
> > Not sure about the 520 as I recently sold mine, but I do know my
> > TS-850S/AT will transmit way out of each end of every Band.
> > It goes about 100 to 500 kc each way on every band before it will not
> > transmit any longer. For example, on 20 meters, it will trasmit
> > anywhere from 13.500 to 14.500. Although, I am wise enough to stay
> > inside the Amateur Bands !
> > So I would say, Yes, I am sure your 520 will also trasmit anywhere the
> > VFO will go.
> >
> > Gordon
>

9235. Re: [TS-520_820_530_830] Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 09:25:57 UTC
From: n9wb
Topic: 9183 Message: 9235

Be sure that the switches on the back are in the correct position.
Some models may not have the transverter switch and the receive antenna switch

1. SG switch on.
2 Transverter switch off.
3 Receive antenna switch off

Be sure heater switch is on. Be sure that the carrier control is fully up.
Do not have a key in key jack or key must be closed.
Will only put out a carrier on Tune or CW.

Vy 73, Walt N9WB

----- Original Message -----
From: Bill Wilkinson
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 02, 2006 3:42 PM
Subject: [TS-520_820_530_830] Re: Cable connector from VFO-520 to TS-520

HI to All that responded:
I have tried the PAPER CLIP trick and by gosh I can now rec. However still no TX. I wonder what else this illustrious group can suggest?
Thanks in advance.
Bill

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/06

[Non-text portions of this message have been removed]

9236. Re: no reception of wwv

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 14:22:41 UTC
From: Sergio Potes
Topic: 9222 Message: 9236

Gordon:
Thsnks for your e-mail.
The radio I have is a TS-520SE that is in pretty good shape but I
have no reception of wwv and I fallow the manuals aligment procedure
for the reception of 15K wwv and I can't coty anything there.
Thank you! Sergio AE4TO
>
> Hi Sergio,
> What rig are you working on ?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Sergio Potes"
> <verotex@> wrote:
> >
> > I ca'nt receive wwv at all. I try the alignment procedure in the
> > manual and
> > I still do receive wwv.
> > The procedure calls for adjusting t4 & t5 and them t3 for
maximum
> > signal.
> > I will like to know if anything else I have to do.
> > Thank you in advance for any help. AE4TO
> >
>

9237. Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 15:53:12 UTC
From: Ellen R
Topic: 9154 Message: 9237

Hi John,

I'm not 100% sure, but I think they're placed close to to your radio (the the one link I gave you, thae ham states that he put it after his linear). From what I remember reading in NCJ years ago, I think those were after the radios, in the feedline. They were pretty close to the radios too.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I've seen them before Ellen. It's justy that I've heard of quarter-wave stubs for matching lines,but I hadn't heard of these stubs being used for traps. I wondered where it was to be placed, in frony of the 2 meter or the Linear? Right at the machine or a distance back? and so on. Bac 2U Ellen.
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

9238. Re: transmit out of specs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 16:06:44 UTC
From: Ellen R
Topic: 9225 Message: 9238

Hi Frank,

Yes it will. The only reason today's rigs won't transmit out of band, is because the microprocessors in them block any out-of band transmission from occurring (but even this is not a given - I had an early model SGC SG-2020, that had not only general coverage receive, it also had general coverage transmit! [I found this out on the late 90s, when I accidentally transmitted on 7302 KHz; hooking up a dummy load, I keyed up and transmitted well past 8000 KHz {when I finally gave up}]). But efficiency will start to drop, as you get further out of range of the tuned circuits that are used for each band in the radio, and as a result, output power will drop, and receive capability/signal strength, will also drop. Most of these Kenwood hybrids will work the MARS freqs. that are reasonably close to the ham bands, without much, if any modification.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Valued Customer" <defaultprofile@...> wrote:
>
> Hello group!
>
> The manual says the TS-520 will transmi in the 80M from 3.50 to 4.00.
> But the dial will spin well past 4.10. Does that mean I can
> transmit (ie MARS) above 4.0?
>
> Will this radio transmit on any frequency it can receive? I don't see
> anything in the manual that says any range is 'blocked', but maybe I'm
> missing something, likely in my head.
>
> Thanks again!
>
> 73, Frank K2NCC
>

9239. TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 17:32:22 UTC
From: mikefr24
Topic: 9239 Message: 9239

I seem to have the rig all working good (90-115 Watts) on all bands except for 10m which I can only get 10 Watts. I swapped the 12BY7 with a few different 12BY7A tubes and still get the same results so I put the original 12BY7 back in. I did notice that when I switch the band to 28.5Mhz or higher, the frequency stability goes nuts. It will jump on the digital display all over the band +-.300Mhz on recieve. Transmit makes no difference. Maybe there is something dirty somewhere? It is rock solid on 21Mhz and lower. I have neutralized the finals and everything seems good in the final unit.

Mike
KC8QNO

9240. Re: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-03 23:28:58 UTC
From: Peter A Markavage
Topic: 9226 Message: 9240

If your RF Gain control(only functional on receive) has any effect on
your ALC meter readings(only functional in transmit) then you got bigger
problems.

Pete, wa2cwa

On Sat, 2 Sep 2006 23:44:10 -0400 "Ken Gunton" <ken@...>
writes:
> You might want to check your RF Gain control. If it's
> even partially turned counterclockwise it may run up
> the ALC meter.

9241. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 00:49:54 UTC
From: Ellen R
Topic: 9239 Message: 9241

Hi Mike,

It sounds like the coils for 10m are out of whack, or even worse, one of them may be cracked. You might want to do the coil adjustment procedure outlined in the manual. If that doesn't help, then you may have a damged coil. The fact that you're getting a big freq. variation on 10m, seems to indicate the inductance in the coil for 10m is not holding steady. So it's oscillating all over the place. If the inductance isn't holding steady, the coil and/or coil form could be damaged. This can happen if somebody tried in the past to adjust one of the coils, the coil slug was stuck,and they wound up cracking the coil, trying to force the slug free.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...> wrote:
>
> I seem to have the rig all working good (90-115 Watts) on all bands
> except for 10m which I can only get 10 Watts. I swapped the 12BY7 with
> a few different 12BY7A tubes and still get the same results so I put
> the original 12BY7 back in. I did notice that when I switch the band
> to 28.5Mhz or higher, the frequency stability goes nuts. It will jump
> on the digital display all over the band +-.300Mhz on recieve.
> Transmit makes no difference. Maybe there is something dirty
> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> the finals and everything seems good in the final unit.
>
> Mike
> KC8QNO
>

9242. RE: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 01:06:37 UTC
From: Ken Gunton
Topic: 9226 Message: 9242

I didn't realize it was on transmit that
he got the meter pinning problem.. My bad.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A Markavage
Sent: Sunday, September 03, 2006 7:29 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS830S ALC Meter

If your RF Gain control(only functional on receive) has any effect on your ALC
meter readings(only functional in transmit) then you got bigger problems.

Pete, wa2cwa

On Sat, 2 Sep 2006 23:44:10 -0400 "Ken Gunton" <ken@...>
writes:
> You might want to check your RF Gain control. If it's
> even partially turned counterclockwise it may run up
> the ALC meter.

Yahoo! Groups Links

9243. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 01:28:39 UTC
From: w5rkl
Topic: 9239 Message: 9243

The instability on 10 meters is not caused by the final or neutralization. The instability more than likely is caused by dirty contacts within the RLL UNIT and possibly the VFO variable capacitor tension spring. Cleaning the VFO tension spring contact requires removing the side panel on the VFO case and spray contact cleaner on the tension spring where it contacts the VFO variable capacitor then turning the VFO through it travel, both ways, a couple of times. You might have to do this twice.

You might also consider removing the RLL UNIT and both circuit boards. The interconnection between the two boards is through a series of vertical straight pins. The connections at these pins may be dirty.

Hetrodyne oscillator band changing is accomplished by diode switching within the PD UNIT. I recently had a similiar problem with my 820 but it was on all bands. Removing the boards and cleaning the pins helped eliminate this problem. However, it may be a sign of other problems lurking in the RLL UNIT as a whole.

The RLL UNIT consist of 2 circuit boards (UNITS) that control the initial hetrodyne oscillator and VCO freqencies the 820 and/or 820S operates on. There are other circuits that mix, both transmit and receive frequencies such as the VFO (5.5 to 5 MHz) and IF frequency (8.830 KHz). However, IF there are problems in the PD and VCO circuits, you can experience instability or complete lost of transmit and/or receive.

By the way, the 820 and 820S are the same radio except the 820S has the digital display and support circuitry. Pulling the digital circuitry from an 820S makes it a plan 820. Therefore, a board or UNIT, as Kenwood calls them, in an 820 will also work in an 820S and vice versa.

Having said all of this, since you have stability on 160 through 15 meters, I would suspect the instability is a dirty contact, possibly in the RLL UNIT.

Care must be taken if you remove the PD and VCO boards; they are both mounted in the RLL box, the PD UNIT board is the bottom board.

If you are going to remove the RLL UNIT, carefully remove the 5 plugs on the front side of the RLL UNIT FIRST. I do not recommend removing any screws that hold the circuit boards to the box UNTIL the RLL unit has been completely removed. Unfortunately, the wiring harness hides 2 of the 4 screws that hold the RLL UNIT box to the chassis. I had to remove the AVR board, located to the right of the RLL UNIT box, which gave me access to the 2 screws. Again, care must be taken when

removing the plugs. DO NOT pull the plugs out by the wires, use a small needle nose pliers and gentle pull the plastic plug straight until it's removed. Again, be careful to not break the plug and any wires coming from the plug. Reinstallation is simple reversing the process. When cleaning the pins I used a small wire brush and cleaning solvent and gentle cleaned them. The pin blocks will come out so do not loose the plastic insert for each pin block. Take note how the pins are held in the RLL box. The circuit boards only connect to the pins one way so take note of this before removing either of the boards. Removing the PD and VCO boards is somewhat difficult so be carefull not to break the boards. Bending could cause a circuit board trace to crack so don't bend them. I pulled them out using a small needle nose pliers and the pin block female connector, very gentle until the board came out. Reinstalling the board, push gentle on the pin sockets ONLY, not on the board.

Good luck.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> I seem to have the rig all working good (90-115 Watts) on all bands
> except for 10m which I can only get 10 Watts. I swapped the 12BY7 with
> a few different 12BY7A tubes and still get the same results so I put
> the original 12BY7 back in. I did notice that when I switch the band
> to 28.5Mhz or higher, the frequency stability goes nuts. It will jump
> on the digital display all over the band +-.300Mhz on recieve.
> Transmit makes no difference. Maybe there is something dirty
> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> the finals and everything seems good in the final unit.
>
> Mike
> KC8QNO
>

9244. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 02:05:49 UTC
From: David Rust
Topic: 9239 Message: 9244

Guys, what do you recommend for contact cleaner? Only thing I have available locally is RS Contact cleaner with lubricant, which leaves a WD40 like film. What should I use.
Dave

[Non-text portions of this message have been removed]

9245. Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 04:48:32 UTC
From: Clif
Topic: 9183 Message: 9245

The remote VFO has nothing to do with any of the switches you listed.
It is merely a "REMOTE VFO". It is not a transverter.

To use the VFO520 plug it in and use the switch on it to select the
method of operation, remote, split, or main.

No other changes need to be made.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Be sure that the switches on the back are in the correct position.
> Some models may not have the transverter switch and the receive
antenna switch
>
> 1. SG switch on.
> 2 Transverter switch off.
> 3 Receive antenna switch off
>
> Be sure heater switch is on. Be sure that the carrier control is
fully up.
> Do not have a key in key jack or key must be closed.
> Will only put out a carrier on Tune or CW.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Bill Wilkinson
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 02, 2006 3:42 PM
> Subject: [TS-520_820_530_830] Re: Cable connector from VFO-520 to
TS-520
>
>
> HI to All that responded:
> I have tried the PAPER CLIP trick and by gosh I can now rec.
However still no TX. I wonder what else this illustrious group can
suggest?
> Thanks in advance.
> Bill
>
> [Non-text portions of this message have been removed]
>
>
>

>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/06
>
>
> [Non-text portions of this message have been removed]
>

9246. Re: [TS-520_820_530_830] Contact Cleaner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 08:06:19 UTC
From: n9wb
Topic: 9246 Message: 9246

Ace Hardware carries a product called Blue Shower. It is a completely dry wash. CRC makes a product called No Flash. I have seen it at Electrical supply stores. I have used rubbing alcohol in a pinch but the Blue Shower or No Flash works better. Remember that alcohol is a conductor so it should be used with the power off and allowed to dry before applying power. Do not use other alcohol as they will quickly dissolve plastics.

Building supply stores such as Lowes and Menards might have one of the above.

Craig De-Oxit is the preferred product, however.

Vy 73, Walt N9WB
----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 03, 2006 9:05 PM
Subject: Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Guys, what do you recommend for contact cleaner? Only thing I have available locally is RS Contact cleaner with lubricant, which leaves a WD40 like film. What should I use.
Dave

9247. Re: [TS-520_820_530_830] Re: Cable connector from VFO-520 to TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 09:15:17 UTC
From: n9wb
Topic: 9183 Message: 9247

Clif:
His problem is that now that he has the VFO jumper in, the rig will receive but not transmit.
Walt

----- Original Message -----
From: Clif
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 03, 2006 11:48 PM
Subject: [TS-520_820_530_830] Re: Cable connector from VFO-520 to TS-520

The remote VFO has nothing to do with any of the switches you listed.
It is merely a "REMOTE VFO". It is not a transverter.

To use the VFO520 plug it in and use the switch on it to select the method of operation, remote, split, or main.

No other changes need to be made.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Be sure that the switches on the back are in the correct position.
> Some models may not have the transverter switch and the receive antenna switch
>
> 1. SG switch on.
> 2 Transverter switch off.
> 3 Receive antenna switch off
>
> Be sure heater switch is on. Be sure that the carrier control is fully up.
> Do not have a key in key jack or key must be closed.
> Will only put out a carrier on Tune or CW.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Bill Wilkinson
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 02, 2006 3:42 PM
> Subject: [TS-520_820_530_830] Re: Cable connector from VFO-520 to TS-520
>
>

> HI to All that responded:
> I have tried the PAPER CLIP trick and by gosh I can now rec.
However still no TX. I wonder what else this illustrious group can
suggest?
> Thanks in advance.
> Bill
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/06
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/06

[Non-text portions of this message have been removed]

9248. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 09:51:33 UTC
From: n9wb
Topic: 9239 Message: 9248

Mikes:
I would like to add:
This is the box that contains the PD and VCO boards on the bottom side. When you have these boards out, look the solder side over closely with a magnifying glass. Some connections, often have cracked solder connections. This is a sometimes a circular crack around a component lead that is easier to see with a magnifying glass. Resolder any of these that look cracked with a small low wattage soldering iron. Check around connector pins. A couple of production runs of these boards seems to have this problem more than others. If you are very careful it is easy to fix. Just be very careful and take your time.

Be very, very careful not to get any solder bridges where you solder. Check each place that you solder with a magnifying glass for bridges. If you accidentally do get one, remove it before you move on. Solder bridges are very hard to find later and can cause multiple problems including component damage when powered back up. I always do this in a quiet environment with no distractions. If the kids are fighting at your feet, and the cat is climbing up your back, it is easy to get a solder bridge and miss it. Solder bridges can turn a small problem into a big one and sometimes turn a good radio into a parts radio.

On one of these boards, I believe the PLL board there is a slide switch. It says Tun/Nor. Clean this switch. Then be sure it is returned to the Nor position. After replacing the boards, double check this switch and be sure it is fully in the Nor position.

Vy 73, Walt N9WB

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 03, 2006 8:28 PM
Subject: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

The instability on 10 meters is not caused by the final or neutralization. The instability more than likely is caused by dirty contacts within the RLL UNIT and possibly the VFO variable capacitor tension spring. Cleaning the VFO tension spring contact requires removing the side panel on the VFO case and spray contact cleaner on the tension spring where it contacts the VFO variable capacitor then turning the VFO through it travel, both ways, a couple of times. You might have to do this twice.

You might also consider removing the RLL UNIT and both circuit boards. The interconnection between the two boards is through a series of

vertical straight pins. The connections at these pins may be dirty.

Hetrodyne oscillator band changing is accomplished by diode switching within the PD UNIT. I recently had a similiar problem with my 820 but it was on all bands. Removing the boards and cleaning the pins helped eliminate this problem. However, it may be a sign of other problems lurking in the RLL UNIT as a whole.

The RLL UNIT consist of 2 circuit boards (UNITS) that control the initial hetrodyne oscillator and VCO freqencies the 820 and/or 820S operates on. There are other circuits that mix, both transmit and receive frequencies such as the VFO (5.5 to 5 MHz) and IF frequency (8.830 KHz). However, IF there are problems in the PD and VCO circuits, you can experience instability or complete lost of transmit and/or receive.

By the way, the 820 and 820S are the same radio except the 820S has the digital display and support circuitry. Pulling the digital circuitry from an 820S makes it a plan 820. Therefore, a board or UNIT, as Kenwood calls them, in an 820 will also work in an 820S and vice versa.

Having said all of this, since you have stability on 160 through 15 meters, I would suspect the instability is a dirty contact, possibly in the RLL UNIT.

Care must be taken if you remove the PD and VCO boards; they are both mounted in the RLL box, the PD UNIT board is the bottom board.

If you are going to remove the RLL UNIT, carefully remove the 5 plugs on the front side of the RLL UNIT FIRST. I do not recommend removing any screws that hold the circuit boards to the box UNTIL the RLL unit has been completely removed. Unfortunately, the wiring harness hides 2 of the 4 screws that hold the RLL UNIT box to the chassis. I had to remove the AVR board, located to the right of the RLL UNIT box, which gave me access to the 2 screws. Again, care must be taken when removing the plugs. DO NOT pull the plugs out by the wires, use a small needle nose pliers and gentle pull the plastic plug straight until it's removed. Again, be careful to not break the plug and any wires coming from the plug. Reinstallation is simple reversing the process. When cleaning the pins I used a small wire brush and cleaning solvent and gentle cleaned them. The pin blocks will come out so do not loose the plastic insert for each pin block. Take note how the pins are held in the RLL box. The circuit boards only connect to the pins one way so take note of this before removing either of the boards. Removing the PD and VCO boards is somewhat difficult so be carefull not to break the boards. Bending could cause a circuit board trace to crack so don't bend them. I pulled them out using a small needle nose pliers and the pin block female connector, very gentle until the board came out. Reinstalling the board, push gentle on the pin sockets ONLY, not on the board.

Good luck.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> I seem to have the rig all working good (90-115 Watts) on all bands
> except for 10m which I can only get 10 Watts. I swapped the 12BY7 with
> a few different 12BY7A tubes and still get the same results so I put
> the original 12BY7 back in. I did notice that when I switch the band
> to 28.5Mhz or higher, the frequency stability goes nuts. It will jump
> on the digital display all over the band +-.300Mhz on recieve.
> Transmit makes no difference. Maybe there is something dirty
> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> the finals and everything seems good in the final unit.
>
> Mike
> KC8QNO
>

9249. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 10:12:20 UTC
From: Dave and Loraine
Topic: 9239 Message: 9249

Hi Mike,
Is it:
just the display that's jumping around and the radio is stable
or
the whole thing?
Dave F4EYK

9250. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 12:39:59 UTC
From: digs4ruff
Topic: 9239 Message: 9250

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> I seem to have the rig all working good (90-115 Watts) on all bands
> except for 10m which I can only get 10 Watts. I swapped the 12BY7
with
> a few different 12BY7A tubes and still get the same results so I put
> the original 12BY7 back in. I did notice that when I switch the band
> to 28.5Mhz or higher, the frequency stability goes nuts. It will
jump
> on the digital display all over the band +-.300Mhz on recieve.
> Transmit makes no difference. Maybe there is something dirty
> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> the finals and everything seems good in the final unit.
>
> Mike
> KC8QNO
>
Mike
There is a conspiracy happening here. Two nites ago my 820s was fine.
Had a QSO with Norfolk Island. Yesterday morning the digital display
was running amok - about 300khz on 20M but the Rx and TX were stable.
By noon yesterday the display was not even in the right band so opened
up the rig and cleaned all connectors, pots, and switches with de-oxit.
Wouldn't you know it, the display is now fine but I now have no TX or
RX. When I key up I have HV but the is no ALC or IP. There is no RX
audio unless Audio Gain is maxed out then there is just a faint hum in
the speaker. VFO 8-9 are shorted and SG is on.
Thank goodness it's a long weekend in Canada so I still have today to
try to solve this before it's back to work.
regards
Barry VA7GEM

9251. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 12:54:30 UTC
From: w5rkl
Topic: 9239 Message: 9251

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Guys, what do you recommend for contact cleaner? Only thing I have
available locally is RS Contact cleaner with lubricant, which leaves a
WD40 like film. What should I use.
> Dave
>
> [Non-text portions of this message have been removed]
>

Dave,

I recommend Deoxit.

73

Mike
W5RKL

9252. 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 20:45:20 UTC
From: joe sloss
Topic: 9252 Message: 9252

I've heard that the Gold Edition denotes a group of 830's that came with both CW filters. T or F?

Joe k7mks

[Non-text portions of this message have been removed]

9253. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 22:57:59 UTC
From: Dave and Loraine
Topic: 9252 Message: 9253

Hey Joe,
The Gold edition also includes a spam filter...
Mine's a lowly Zinc edition. It was released without the VFO which was an optional extra...
See the previous posts on the Gold, Silver and Bronze editions.
73 Dave F4EYK

9254. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:18:42 UTC
From: Peter A Markavage
Topic: 9252 Message: 9254

There is no such thing as a "gold" edition. Some one years ago started
that nomenclature to squeak a few more bucks out of a sale and it caught
on. There were only two 830 models; TS-830S and TS-830M. The "M" had AM
capability and was not sold in the U. S. Gold, silver, bronze, red, blue,
yellow, etc. 830 labels are fully embedded in urban myth as to value
differences.

Pete, wa2cwa

On Mon, 4 Sep 2006 13:45:20 -0700 "joe sloss" <k7mks@...> writes:
> I've heard that the Gold Edition denotes a group of 830's that came
> with both CW filters. T or F?
>
> Joe k7mks

9255. Re: TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:23:58 UTC
From: Gordon
Topic: 9226 Message: 9255

Dave,
I use ONLY the Caig DEOXIT D5 cleaner. It has never failed me yet. I found mine at the local electronics Store here in town. If I recall, it is about 15 bucks for a 5 oz can. I also have some sewing machine oil that I use to lube the fan motors and any bearings .
Those two items are a staple in my tool kit here.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Gordon, what do you use for a contact cleaner in the bandswitch. Only thing I have access to locally is some oily tuner cleaner at Radio Shack, so I'll have to order something. I have this super nice 530s that I think it would be a good idea to spray the bandswitch parts, then I'll be complete. I replaced the nylon coupler with K4EAA's brass coupler, easy to put in, mine both slid out the final cage out the front. Plenty of room to get the old nylon one out too.
> Dave
>
> [Non-text portions of this message have been removed]
>

9256. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:31:00 UTC
From: Gordon
Topic: 9239 Message: 9256

Mike,
One other item. Be sure to check and make sure the Bandswitch
Couplers are not cracked and slipping !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> I seem to have the rig all working good (90-115 Watts) on all bands
> except for 10m which I can only get 10 Watts. I swapped the 12BY7 with
> a few different 12BY7A tubes and still get the same results so I put
> the original 12BY7 back in. I did notice that when I switch the band
> to 28.5Mhz or higher, the frequency stability goes nuts. It will jump
> on the digital display all over the band +-.300Mhz on recieve.
> Transmit makes no difference. Maybe there is something dirty
> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> the finals and everything seems good in the final unit.
>
> Mike
> KC8QNO
>

9257. Re: 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:35:30 UTC
From: Gordon
Topic: 9252 Message: 9257

Joe,
I have an 830 Gold Label here that has only 1 of the CW filters and
It looks totally factory.

Gordon

--- In TS-520_820_530_830@...m, "joe sloss" <k7mks@...> wrote:
>
> I've heard that the Gold Edition denotes a group of 830's that came
with both CW filters. T or F?
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

9258. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:29:28 UTC
From: Gordon
Topic: 9239 Message: 9258

Mike,
Have you cleaned the bandswitch (including the part of it inside
the Final cage) ?
Be careful in the cage as there is Lethal Voltage in there. Be sure
the rig is off and the Plate voltage has bled down before playing
inside the cage.
Your problem sounds like a Dirty Band switch.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> I seem to have the rig all working good (90-115 Watts) on all bands
> except for 10m which I can only get 10 Watts. I swapped the 12BY7 with
> a few different 12BY7A tubes and still get the same results so I put
> the original 12BY7 back in. I did notice that when I switch the band
> to 28.5Mhz or higher, the frequency stability goes nuts. It will jump
> on the digital display all over the band +-.300Mhz on recieve.
> Transmit makes no difference. Maybe there is something dirty
> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> the finals and everything seems good in the final unit.
>
> Mike
> KC8QNO
>

9259. Re: 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:39:02 UTC
From: Gordon
Topic: 9252 Message: 9259

Pete,
I had TWO 830's here side by side.
One had the label " Kenwood TS-830S " in Silver, The other the TS-830S
is in GOLD.
So YES, there are two different versions, but I think it is strictly
cosmetic !
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> There is no such thing as a "gold" edition. Some one years ago started
> that nomenclature to squeak a few more bucks out of a sale and it caught
> on. There were only two 830 models; TS-830S and TS-830M. The "M" had AM
> capability and was not sold in the U. S. Gold, silver, bronze, red,
blue,
> yellow, etc. 830 labels are fully embedded in urban myth as to value
> differences.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 13:45:20 -0700 "joe sloss" <k7mks@...> writes:
> > I've heard that the Gold Edition denotes a group of 830's that came
> > with both CW filters. T or F?
> >
> > Joe k7mks
>

9260. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:44:16 UTC
From: Gordon
Topic: 9239 Message: 9260

Barry,
Happy I was able to help you out off list.
At least I was able to help get you back up and running.
Let me know how the cleaning the Display control Box contacts goes.
I'm sure that will remedy your remaining problem with the display.
For the rest of you, the problem was the result of a connector on
just 1 pin off. Simple mistake, as we have all made, but can be Very
frustrating.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> > I seem to have the rig all working good (90-115 Watts) on all bands
> > except for 10m which I can only get 10 Watts. I swapped the 12BY7
> with
> > a few different 12BY7A tubes and still get the same results so I put
> > the original 12BY7 back in. I did notice that when I switch the band
> > to 28.5Mhz or higher, the frequency stability goes nuts. It will
> jump
> > on the digital display all over the band +-.300Mhz on recieve.
> > Transmit makes no difference. Maybe there is something dirty
> > somewhere? It is rock solid on 21Mhz and lower. I have neutralized
> > the finals and everything seems good in the final unit.
> >
> > Mike
> > KC8QNO
> >
> Mike
> There is a conspiracy happening here. Two nites ago my 820s was fine.
> Had a QSO with Norfolk Island. Yesterday morning the digital display
> was running amok - about 300khz on 20M but the Rx and TX were stable.
> By noon yesterday the display was not even in the right band so opened
> up the rig and cleaned all connectors, pots, and switches with de-oxit.
> Wouldn't you know it, the display is now fine but I now have no TX or
> RX. When I key up I have HV but the is no ALC or IP. There is no RX
> audio unless Audio Gain is maxed out then there is just a faint hum in
> the speaker. VFO 8-9 are shorted and SG is on.
> Thank goodness it's a long weekend in Canada so I still have today to
> try to solve this before it's back to work.
> regards

> Barry VA7GEM
>

9261. Re: [TS-520_820_530_830] Re: 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-04 23:47:32 UTC
From: David Rust
Topic: 9252 Message: 9261

I just completed replacing the bandswitch coupler in the final compartment. Being as careful as I could be, darn if I didn't get it off when I reassembled it. It took some fiddling with to get it back right. So, be careful when taking that apart you get it back like it came part. I was either a quarter turn off or a half turn off two or three times. It takes some time to put it all back together, and put the final cage on there and power it up only to find its not right.

The fourth time I said "My oh my, I must take this apart again"......yeah right.

Good luck,
Dave W0DLR

[Non-text portions of this message have been removed]

9262. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 00:00:31 UTC
From: Tibor (Tibi) Zentai
Topic: 9239 Message: 9262

Hello Mike,

I suffer from the same problem. I agree with Gordon i.e. bandswitch/coupler problem. I am going to do the actual half-year maintenance this week. Sometimes 12 m, somtimes 40 m fails, now 10 m said good bye.

On the other hand there may be some other problem (too) with you for the frequency deviation is not a usual symptom of bandswitch/coupler problem. It may be caused by an old solder on RF stage PCB. Do hope I am not right.

********** REPLY SEPARATOR **********

On 2006.09.04. at 23:31 Gordon wrote:

>Mike,
> One other item. Be sure to check and make sure the Bandswitch
>Couplers are not cracked and slipping !
>
>Gordon
>
>--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
>wrote:
>>
>> I seem to have the rig all working good (90-115 Watts) on all bands
>> except for 10m which I can only get 10 Watts. I swapped the 12BY7 with
>> a few different 12BY7A tubes and still get the same results so I put
>> the original 12BY7 back in. I did notice that when I switch the band
>> to 28.5Mhz or higher, the frequency stability goes nuts. It will jump
>> on the digital display all over the band +-.300Mhz on recieve.
>> Transmit makes no difference. Maybe there is something dirty
>> somewhere? It is rock solid on 21Mhz and lower. I have neutralized
>> the finals and everything seems good in the final unit.
>>
>> Mike
>> KC8QNO

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

9263. Re: [TS-520_820_530_830] Bandswitch Alignment Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 00:28:34 UTC
From: Bill Scurlock
Topic: 9263 Message: 9263

Dave,

For your reference, and maybe others on this reflector, I am going to copy into this email the info provided by Clif when I was struggling with how to align the bandswitch inside the final cage with the shaft thru the other sections of the bandswitch mounted on the RF Board. This does not address alignment of the switch sections on the RF Board - just the relationship between the shafts in each compartment. This was a tremendous timesaver and help to me, and maybe it will help others also - Thanks Clif.

73, Bill, K5GCW

To align the bandswitch sections;

Put the radio on 10Mhz. The flats on the shaft (on the RF Board) should be vertical. Check the shaft in the final compartment. There should be a flat to the outside (right side of radio viewed from front) and one to the bottom. This is the correct alignment.

Clif

----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 04, 2006 6:47 PM
Subject: Re: [TS-520_820_530_830] Re: 830 Gold Edition

I just completed replacing the bandswitch coupler in the final compartment. Being as careful as I could be, darn if I didn't get it off when I reassembled it. It took some fiddling with to get it back right. So, be careful when taking that apart you get it back like it came part. I was either a quarter turn off or a half turn off two or three times. It takes some time to put it all back together, and put the final cage on there and power it up only to find its not right.

The fourth time I said "My oh my, I must take this apart again"......yeah right.

Good luck,
Dave W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9264. Re: [TS-520_820_530_830] Bandswitch Alignment Info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 00:34:39 UTC
From: David Rust
Topic: 9263 Message: 9264

Bill, thats what I thought I had accomplished, however, I kept getting it wrong. After some fiddling with it, I got it right. Now it works perfect, but I thought I was going to wear the allens out before I got it right. I don't know why I made that so difficult. Anyway, they still have the best sounding audio, transmit and receive of about anything I have owned.

Pay attention to Bill's instructions if you are working on that bandswitch coupler. It will save lot of time. I probably spent two or three hours on this 30 minute project.
Dave

[Non-text portions of this message have been removed]

9265. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 00:43:05 UTC
From: Ruben Echevarria
Topic: 9252 Message: 9265

Well since I have both I'll tell you. The Gold has both filters and the Silver has only one.
Other than that I seen no other difference. Yes there was an 830M which had am capabilities.

Myth....? Not in my case ... KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 4, 2006 7:18:42 PM
Subject: Re: [TS-520_820_530_830] 830 Gold Edition

There is no such thing as a "gold" edition. Some one years ago started that nomenclature to squeak a few more bucks out of a sale and it caught on. There were only two 830 models; TS-830S and TS-830M. The "M" had AM capability and was not sold in the U. S. Gold, silver, bronze, red, blue, yellow, etc. 830 labels are fully embedded in urban myth as to value differences.

Pete, wa2cwa

On Mon, 4 Sep 2006 13:45:20 -0700 "joe sloss" <k7mks@comcast. net> writes:
> I've heard that the Gold Edition denotes a group of 830's that came
> with both CW filters. T or F?
>
> Joe k7mks

[Non-text portions of this message have been removed]

9266. RE: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 00:07:32 UTC
From: Walter Milton
Topic: 9252 Message: 9266

FALSE

Mine came with NO CW Filters

Walt KA2NJF <mailto:KA@NJF>
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of joe sloss
Sent: Monday, September 04, 2006 4:45 PM
To: ts-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 830 Gold Edition

I've heard that the Gold Edition denotes a group of 830's that came with
both CW filters. T or F?

Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9267. Re: 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 01:21:33 UTC
From: davewalinski
Topic: 9252 Message: 9267

Well Gentlemen in my case I bought my TS-830S brand new and it has the so called gold label on the front and it came with no I repeat no filters and I had to purchase the one CW filter and would have had to purchase the second one also. Thank you. It is a Myth that the so called gold edition came with both filters!

Dave--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> Well since I have both I'll tell you. The Gold has both filters and the Silver has only one.
> Other than that I seen no other difference. Yes there was an 830M which had am capabilities.
>
> Myth....? Not in my case ...
KA2HHB
>
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> http://www.moparts.org/moparts/picture/members/6/Ruben.html
>
>
>
> ----- Original Message ----
> From: Peter A Markavage <pmarkavage@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, September 4, 2006 7:18:42 PM
> Subject: Re: [TS-520_820_530_830] 830 Gold Edition
>
> There is no such thing as a "gold" edition. Some one years ago started
> that nomenclature to squeak a few more bucks out of a sale and it caught
> on. There were only two 830 models; TS-830S and TS-830M. The "M" had AM
> capability and was not sold in the U. S. Gold, silver, bronze, red, blue,
> yellow, etc. 830 labels are fully embedded in urban myth as to value
> differences.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 13:45:20 -0700 "joe sloss" <k7mks@comcast. net>

writes:
> > I've heard that the Gold Edition denotes a group of 830's that
came
> > with both CW filters. T or F?
> >
> > Joe k7mks
>
>
>
> [Non-text portions of this message have been removed]
>

9268. Re: 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 03:32:42 UTC
From: max_ve3tmt
Topic: 9252 Message: 9268

I believe mine is a gold label as the KENWOOD TS-830S is in gold print. It has both SSB and CW filter in the 8.83 IF and no CW filter in the 455 IF.

Max

9269. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 04:33:49 UTC
From: digs4ruff
Topic: 9239 Message: 9269

Many public thanks for all your help. After sitting outside tonite with a nice glass of Chardonnay I have concluded what the real issue was in the final analysis.

IT IS A FULL MOON AND MARS IS IN PERFECT ALIGNMENT WITH JUPITER AND SATURN. BEWARE THE HAIRY, TWO LEGGED, FANGED CREATURE SUCKING ON YOUR MIC.

All joking aside when you diconnect the cables remember where they were.
best regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Barry,
> Happy I was able to help you out off list.
> At least I was able to help get you back up and running.
> Let me know how the cleaning the Display control Box contacts goes.
> I'm sure that will remedy your remaining problem with the display.
> For the rest of you, the problem was the result of a connector on
> just 1 pin off. Simple mistake, as we have all made, but can be
Very
> frustrating.
> 73,
> Gordon

9270. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 07:28:38 UTC
From: Peter A Markavage
Topic: 9252 Message: 9270

All 830S came with only the 2 SSB filters installed; all CW filters were optional. I have two product brochures; one showing the gold label and one showing the silver label. The specifications, default filters, optional filters, text, pictures, etc. are identical. If you have CW filters installed, most likely they were installed by the previous owner(s). This same information is also detailed in the only operating manual printed for the 830S, Part # B50-2738-00. The silver badge, Part # B43-0643-04, was quickly replaced by the gold badge, Part #B43-0656-04. All issues of the service manual only show the gold badge part number.

However, I one "believes" they have something "special" and they feel comfortable with it, that's fine with me. I don't really care. My issue is with sellers trying to squeeze a few more bucks out of sale on the pretext of it having a "gold" label. Obviously, if the rig has additional filters versus one that does not, there should be an incremental price difference regardless of what color(gold/silver/red/blue/green) label is on the rig.

Pete, wa2cwa

On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@...> writes:
> Well since I have both I'll tell you. The Gold has both filters and
> the Silver has only one.
> Other than that I seen no other difference. Yes there was an 830M
> which had am capabilities.
>
> Myth....? Not in my case ...
> KA2HHB
>
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> http://www.moparts.org/moparts/picture/members/6/Ruben.html

9271. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 09:07:16 UTC
From: n9wb
Topic: 9239 Message: 9271

Barry:
I kind of lost track of what happened here. The rig had no 10 meter transmit, you removed the PD and VCO board and fixed something that in the end restored 10 meters after you got the connectors back on right. Is that correct? If so What did you fix on the boards ?

Vy 73, Walt N9WB

9272. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 13:02:08 UTC
From: digs4ruff
Topic: 9239 Message: 9272

Walt
This started with a rolling digital display. Opened all connectors
and used de oxit. Replaced connectors (in wrong places) and display
now stable but no ALC or Bias. WIth Gordon's help got the connectors
back on the correct pins and back to original problem. Next weekend
will remove control unit for a better look.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Barry:
> I kind of lost track of what happened here. The rig had no 10 meter
> transmit, you removed the PD and VCO board and fixed something
that in the
> end restored 10 meters after you got the connectors back on right.
Is that
> correct? If so What did you fix on the boards ?
>
> Vy 73, Walt N9WB
>

9273. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 15:35:33 UTC
From: John Harp
Topic: 9154 Message: 9273

Well thank you Ellen, I looked at it briefly. It seems that if it is placed right behind the radio it's not as effective as placed one quarter wave away. I didn't get to look that much in detail since I was trying to clean up the yard.
Ellen R <ellenjoanne2003@...> wrote:
Hi John,

I'm not 100% sure, but I think they're placed close to to your radio (the the one link I gave you, thae ham states that he put it after his linear). From what I remember reading in NCJ years ago, I think those were after the radios, in the feedline. They were pretty close to the radios too.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I've seen them before Ellen. It's justy that I've heard of quarter-wave stubs for matching lines,but I hadn't heard of these stubs being used for traps. I wondered where it was to be placed, in frony of the 2 meter or the Linear? Right at the machine or a distance back? and so on. Bac 2U Ellen.
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9274. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 16:10:38 UTC
From: Ruben Echevarria
Topic: 9252 Message: 9274

Very good explanation Peter, I tend to agree with your version. It probably was a marketing ploy of sorts. As for the ones I have, they were purchased used so I can't say that's how they came from the factory. Could be that the so called Gold versions were produced during some sort of anniversary year and they used the Gold badge to signify that. Other than that there are no differences in the rigs. In my opinion " MYTH BUSTED" .....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Peter A Markavage <pmarkavage@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 5, 2006 3:28:38 AM
Subject: Re: [TS-520_820_530_830] 830 Gold Edition

All 830S came with only the 2 SSB filters installed; all CW filters were optional. I have two product brochures; one showing the gold label and one showing the silver label. The specifications, default filters, optional filters, text, pictures, etc. are identical. If you have CW filters installed, most likely they were installed by the previous owner(s). This same information is also detailed in the only operating manual printed for the 830S, Part # B50-2738-00. The silver badge, Part # B43-0643-04, was quickly replaced by the gold badge, Part #B43-0656-04. All issues of the service manual only show the gold badge part number.

However, I one "believes" they have something "special" and they feel comfortable with it, that's fine with me. I don't really care. My issue is with sellers trying to squeeze a few more bucks out of sale on the pretext of it having a "gold" label. Obviously, if the rig has additional filters versus one that does not, there should be an incremental price difference regardless of what color(gold/silver/ red/blue/ green) label is on the rig.

Pete, wa2cwa

On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
<ka2hhb_2000@ yahoo.com> writes:
> Well since I have both I'll tell you. The Gold has both filters and
> the Silver has only one.
> Other than that I seen no other difference. Yes there was an 830M
> which had am capabilities.
>
> Myth....? Not in my case ...

> KA2HHB
>
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> exracer1@verizon. net
> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

9275. Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 18:04:47 UTC
From: Ellen R
Topic: 9154 Message: 9275

HI again John,

I forgot to mention that MFJ seels a bandpass filter for 2m, and PAR Elcetronics also sells them. This month's edition of QST briefly talks about these filters in the Q&A section.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well thank you Ellen, I looked at it briefly. It seems that if it is placed right behind the radio it's not as effective as placed one quarter wave away. I didn't get to look that much in detail since I was trying to clean up the yard.
> Ellen R <ellenjoanne2003@...> wrote:
> Hi John,
>
> I'm not 100% sure, but I think they're placed close to to your radio
> (the the one link I gave you, thae ham states that he put it after his
> linear). From what I remember reading in NCJ years ago, I think those
> were after the radios, in the feedline. They were pretty close to the
> radios too.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@...m, John Harp <ka3dpw@> wrote:
> >
> > I've seen them before Ellen. It's justy that I've heard of quarter-
> wave stubs for matching lines,but I hadn't heard of these stubs being
> used for traps. I wondered where it was to be placed, in frony of the 2
> meter or the Linear? Right at the machine or a distance back? and so
> on. Bac 2U Ellen.
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone

> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

9276. Just joined - howdy!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 19:15:48 UTC
From: Darwin, Keith
Topic: 9276 Message: 9276

Hi all,

Over the weekend I decided that I "needed" an 830s. Found one on an online auction site (can we say that here) and arranged for it to be shipped to me. I already know the rig is missing the side handle and don't know what else it needs and I figured this would be a good place to get a "handle" on replacement parts, alignment procedures, etc. Sorry for that bad pun, but I can't resist a pun.

Me: I'm 45, been a ham off & on for about 30 yrs. When I became active last fall after being QRT for 5 yrs, I bought a very nice 830s. SN in the 7nnnnnn range. It worked flawlessly and looked great. I used it for a bit and decided I really wanted something different so I sold in favor of a rig with QSK and a more contest-oriented RX with sharper filtering. Well, now I'm interested in having a back-up rig / 2nd receiver so I've come back around to the 830s. Part of me says I should have kept the other rig, but the one that's in the mail now has both CW filters. Assuming it works it may actually be a more capable rig than my 7nnnn rig was.

- Keith KD1E -

[Non-text portions of this message have been removed]

9277. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 21:23:15 UTC
From: dave@zievid.com
Topic: 9252 Message: 9277

Very interesting ... given that the silver badge seems to have been replaced by the gold badge, I wonder if the mythological 'Gold Edition' is actually more common than the silver. In my experience, most of the 830s I see on eBay have the gold badge, and all of mine do.

If someone is ambitious, I wonder if we could use the group poll to figure out the population of gold vs. silver. I'm not sure if the polling function could sort it out.

If the silver is more rare, I think we should re-name it to 'Platnium Edition' and start charging higher prices for them ... :)

- Dave
W6OT

>
> ----- Original Message ----
> From: Peter A Markavage <pmarkavage@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, September 5, 2006 3:28:38 AM
> Subject: Re: [TS-520_820_530_830] 830 Gold Edition
>
> All 830S came with only the 2 SSB filters installed; all CW filters were
> optional. I have two product brochures; one showing the gold label and
> one showing the silver label. The specifications, default filters,
> optional filters, text, pictures, etc. are identical. If you have CW
> filters installed, most likely they were installed by the previous
> owner(s). This same information is also detailed in the only operating
> manual printed for the 830S, Part # B50-2738-00. The silver badge, Part #
> B43-0643-04, was quickly replaced by the gold badge, Part #B43-0656-04.
> All issues of the service manual only show the gold badge part number.
>
> However, I one "believes" they have something "special" and they feel
> comfortable with it, that's fine with me. I don't really care. My issue
> is with sellers trying to squeeze a few more bucks out of sale on the
> pretext of it having a "gold" label. Obviously, if the rig has additional
> filters versus one that does not, there should be an incremental price
> difference regardless of what color(gold/silver/ red/blue/ green) label is
> on the rig.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
> <ka2hhb_2000@ yahoo.com> writes:
>> Well since I have both I'll tell you. The Gold has both filters and
>> the Silver has only one.

>> Other than that I seen no other difference. Yes there was an 830M
>> which had am capabilities.
>>
>> Myth....? Not in my case ...
>> KA2HHB
>>
>>
>> Ruben Echevarria
>> ka2hhb_2000@ yahoo.com
>> exracer1@verizon. net
>> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
>
>
> [Non-text portions of this message have been removed]
>
>

9278. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-05 21:31:09 UTC
From: Ruben Echevarria
Topic: 9252 Message: 9278

hahaha....Platinum ... yeah that's it!!!

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: dave@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 5, 2006 5:23:15 PM
Subject: Re: [TS-520_820_530_830] 830 Gold Edition

Very interesting ... given that the silver badge seems to have been
replaced by the gold badge, I wonder if the mythological 'Gold Edition' is
actually more common than the silver. In my experience, most of the 830s
I see on eBay have the gold badge, and all of mine do.

If someone is ambitious, I wonder if we could use the group poll to figure
out the population of gold vs. silver. I'm not sure if the polling
function could sort it out.

If the silver is more rare, I think we should re-name it to 'Platnium
Edition' and start charging higher prices for them ... :)

- Dave
W6OT

>
> ----- Original Message ----
> From: Peter A Markavage <pmarkavage@juno. com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tuesday, September 5, 2006 3:28:38 AM
> Subject: Re: [TS-520_820_ 530_830] 830 Gold Edition
>
> All 830S came with only the 2 SSB filters installed; all CW filters were
> optional. I have two product brochures; one showing the gold label and
> one showing the silver label. The specifications, default filters,
> optional filters, text, pictures, etc. are identical. If you have CW
> filters installed, most likely they were installed by the previous
> owner(s). This same information is also detailed in the only operating
> manual printed for the 830S, Part # B50-2738-00. The silver badge, Part #
> B43-0643-04, was quickly replaced by the gold badge, Part #B43-0656-04.
> All issues of the service manual only show the gold badge part number.
>
> However, I one "believes" they have something "special" and they feel
> comfortable with it, that's fine with me. I don't really care. My issue

> is with sellers trying to squeeze a few more bucks out of sale on the
> pretext of it having a "gold" label. Obviously, if the rig has additional
> filters versus one that does not, there should be an incremental price
> difference regardless of what color(gold/silver/ red/blue/ green) label is
> on the rig.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
> <ka2hhb_2000@ yahoo.com> writes:
>> Well since I have both I'll tell you. The Gold has both filters and
>> the Silver has only one.
>> Other than that I seen no other difference. Yes there was an 830M
>> which had am capabilities.
>>
>> Myth....? Not in my case ...
>> KA2HHB
>>
>>
>> Ruben Echevarria
>> ka2hhb_2000@ yahoo.com
>> exracer1@verizon. net
>> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
>
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9279. 830 Platinum Edition For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 00:03:06 UTC
From: Ken Gunton
Topic: 9252 Message: 9279

FOR SALE: TS-830S Platinum Edition - RARE -

Don't settle for all that hype about the "Gold" edition! Be the first on your block to get this extremely rare PLATINUM EDITION transceiver, in perfect operating condition. 9.5/10 cosmetic.

ONLY $3,500.00, and if you buy TODAY, I'll throw in an SM-220, VFO-230, and SP-230, all of which are in nearly new condition.

You don't even have to pay shipping in the USA.

Never again will this special, one-of-a-kind deal be offered!

Ken, W8ASA

dave@... wrote:
Very interesting ... given that the silver badge seems to have been replaced by the gold badge, I wonder if the mythological 'Gold Edition' is actually more common than the silver. In my experience, most of the 830s I see on eBay have the gold badge, and all of mine do.

If someone is ambitious, I wonder if we could use the group poll to figure out the population of gold vs. silver. I'm not sure if the polling function could sort it out.

If the silver is more rare, I think we should re-name it to 'Platnium Edition' and start charging higher prices for them ... :)

- Dave
W6OT

>
> ----- Original Message ----
> From: Peter A Markavage

> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, September 5, 2006 3:28:38 AM
> Subject: Re: [TS-520_820_530_830] 830 Gold Edition
>
> All 830S came with only the 2 SSB filters installed; all CW filters were
> optional. I have two product brochures; one showing the gold label and
> one showing the silver label. The specifications, default filters,
> optional filters, text, pictures, etc. are identical. If you have CW
> filters installed, most likely they were installed by the previous
> owner(s). This same information is also detailed in the only operating
> manual printed for the 830S, Part # B50-2738-00. The silver badge, Part #
> B43-0643-04, was quickly replaced by the gold badge, Part #B43-0656-04.
> All issues of the service manual only show the gold badge part number.

>
> However, I one "believes" they have something "special" and they feel
> comfortable with it, that's fine with me. I don't really care. My issue
> is with sellers trying to squeeze a few more bucks out of sale on the
> pretext of it having a "gold" label. Obviously, if the rig has additional
> filters versus one that does not, there should be an incremental price
> difference regardless of what color(gold/silver/ red/blue/ green) label is
> on the rig.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
> writes:
>> Well since I have both I'll tell you. The Gold has both filters and
>> the Silver has only one.
>> Other than that I seen no other difference. Yes there was an 830M
>> which had am capabilities.
>>
>> Myth....? Not in my case ...
>> KA2HHB
>>
>>
>> Ruben Echevarria
>> ka2hhb_2000@ yahoo.com
>> exracer1@verizon. net
>> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
>
>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

9280. Re: 830 Platinum Edition For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 00:21:01 UTC
From: Gordon
Topic: 9252 Message: 9280

Careful Ken,
If I were to buy it and chemical analysis shows that the platnium is actually Silver, you'll be in for a very heavy LawSuit for False advertising !
None of us would like that. tell you what tho, I'll offer you $ 35.00 bucks for the whole lot,and we'll call it even. what say ?
To sweeten the Pot, I'll even pay for Shipping :-)
73,

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Ken Gunton <ken@...> wrote:
>
> FOR SALE: TS-830S Platinum Edition - RARE -
>
> Don't settle for all that hype about the "Gold" edition! Be the first on your block
> to get this extremely rare PLATINUM EDITION transceiver, in perfect operating
> condition. 9.5/10 cosmetic.
>
> ONLY $3,500.00, and if you buy TODAY, I'll throw in an SM-220, VFO-230, and SP-230, all of which are in nearly new condition.
>
> You don't even have to pay shipping in the USA.
>
> Never again will this special, one-of-a-kind deal be offered!
>
> Ken, W8ASA
>

9281. Re: [TS-520_820_530_830] Re: 830 Platinum Edition For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 00:38:30 UTC
From: Ruben Echevarria
Topic: 9252 Message: 9281

hahahahah......unbelievable..

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 5, 2006 8:21:01 PM
Subject: [TS-520_820_530_830] Re: 830 Platinum Edition For Sale

Careful Ken,
If I were to buy it and chemical analysis shows that the platnium is
actually Silver, you'll be in for a very heavy LawSuit for False
advertising !
None of us would like that. tell you what tho, I'll offer you
$ 35.00 bucks for the whole lot,and we'll call it even. what say ?
To sweeten the Pot, I'll even pay for Shipping :-)
73,

Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, Ken Gunton <ken@...> wrote:
>
> FOR SALE: TS-830S Platinum Edition - RARE -
>
> Don't settle for all that hype about the "Gold" edition! Be the
first on your block
> to get this extremely rare PLATINUM EDITION transceiver, in
perfect operating
> condition. 9.5/10 cosmetic.
>
> ONLY $3,500.00, and if you buy TODAY, I'll throw in an SM-220,
VFO-230, and SP-230, all of which are in nearly new condition.
>
> You don't even have to pay shipping in the USA.
>
> Never again will this special, one-of-a-kind deal be offered!
>
> Ken, W8ASA
>

[Non-text portions of this message have been removed]

9282. Re: [TS-520_820_530_830] 830 Platinum Edition For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 00:39:54 UTC
From: Ruben Echevarria
Topic: 9252 Message: 9282

I'll trade you for my phazer and a few dylithium crystals.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Ken Gunton <ken@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 5, 2006 8:03:06 PM
Subject: [TS-520_820_530_830] 830 Platinum Edition For Sale

FOR SALE: TS-830S Platinum Edition - RARE -

Don't settle for all that hype about the "Gold" edition! Be the first on your block to get this extremely rare PLATINUM EDITION transceiver, in perfect operating condition. 9.5/10 cosmetic.

ONLY $3,500.00, and if you buy TODAY, I'll throw in an SM-220, VFO-230, and SP-230, all of which are in nearly new condition.

You don't even have to pay shipping in the USA.

Never again will this special, one-of-a-kind deal be offered!

Ken, W8ASA

dave@zievid. com wrote:
Very interesting ... given that the silver badge seems to have been replaced by the gold badge, I wonder if the mythological 'Gold Edition' is actually more common than the silver. In my experience, most of the 830s I see on eBay have the gold badge, and all of mine do.

If someone is ambitious, I wonder if we could use the group poll to figure out the population of gold vs. silver. I'm not sure if the polling function could sort it out.

If the silver is more rare, I think we should re-name it to 'Platnium Edition' and start charging higher prices for them ... :)

- Dave
W6OT

>
> ----- Original Message ----
> From: Peter A Markavage

> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tuesday, September 5, 2006 3:28:38 AM
> Subject: Re: [TS-520_820_ 530_830] 830 Gold Edition
>
> All 830S came with only the 2 SSB filters installed; all CW filters were
> optional. I have two product brochures; one showing the gold label and
> one showing the silver label. The specifications, default filters,
> optional filters, text, pictures, etc. are identical. If you have CW
> filters installed, most likely they were installed by the previous
> owner(s). This same information is also detailed in the only operating
> manual printed for the 830S, Part # B50-2738-00. The silver badge, Part #
> B43-0643-04, was quickly replaced by the gold badge, Part #B43-0656-04.
> All issues of the service manual only show the gold badge part number.
>
> However, I one "believes" they have something "special" and they feel
> comfortable with it, that's fine with me. I don't really care. My issue
> is with sellers trying to squeeze a few more bucks out of sale on the
> pretext of it having a "gold" label. Obviously, if the rig has additional
> filters versus one that does not, there should be an incremental price
> difference regardless of what color(gold/silver/ red/blue/ green) label is
> on the rig.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
> writes:
>> Well since I have both I'll tell you. The Gold has both filters and
>> the Silver has only one.
>> Other than that I seen no other difference. Yes there was an 830M
>> which had am capabilities.
>>
>> Myth....? Not in my case ...
>> KA2HHB
>>
>>
>> Ruben Echevarria
>> ka2hhb_2000@ yahoo.com
>> exracer1@verizon. net
>> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
>
>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9283. RE: [TS-520_820_530_830] 830 Platinum Edition For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 01:05:23 UTC
From: Ken Gunton
Topic: 9252 Message: 9283

Ruben, if your dilithium crystals have a
date code of stardate 400 or later, let's talk.. hi hi

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ruben Echevarria
Sent: Tuesday, September 05, 2006 8:40 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 830 Platinum Edition For Sale

I'll trade you for my phazer and a few dylithium crystals.

Ruben Echevarria
ka2hhb_2000@...
exracer1@... http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Ken Gunton <ken@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 5, 2006 8:03:06 PM
Subject: [TS-520_820_530_830] 830 Platinum Edition For Sale

FOR SALE: TS-830S Platinum Edition - RARE -

Don't settle for all that hype about the "Gold" edition! Be the first on your
block to get this extremely rare PLATINUM EDITION transceiver, in perfect
operating condition. 9.5/10 cosmetic.

ONLY $3,500.00, and if you buy TODAY, I'll throw in an SM-220, VFO-230, and
SP-230, all of which are in nearly new condition.

You don't even have to pay shipping in the USA.

Never again will this special, one-of-a-kind deal be offered!

Ken, W8ASA

dave@zievid. com wrote:
Very interesting ... given that the silver badge seems to have been replaced by
the gold badge, I wonder if the mythological 'Gold Edition' is actually more
common than the silver. In my experience, most of the 830s I see on eBay have
the gold badge, and all of mine do.

If someone is ambitious, I wonder if we could use the group poll to figure out
the population of gold vs. silver. I'm not sure if the polling function could
sort it out.

If the silver is more rare, I think we should re-name it to 'Platnium Edition'
and start charging higher prices for them ... :)

- Dave
W6OT

>
> ----- Original Message ----
> From: Peter A Markavage

> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Tuesday, September 5, 2006 3:28:38 AM
> Subject: Re: [TS-520_820_ 530_830] 830 Gold Edition
>
> All 830S came with only the 2 SSB filters installed; all CW filters
> were optional. I have two product brochures; one showing the gold
> label and one showing the silver label. The specifications, default
> filters, optional filters, text, pictures, etc. are identical. If you
> have CW filters installed, most likely they were installed by the
> previous owner(s). This same information is also detailed in the only
> operating manual printed for the 830S, Part # B50-2738-00. The silver
> badge, Part # B43-0643-04, was quickly replaced by the gold badge,
> Part #B43-0656-04. All issues of the service manual only show the gold
> badge part number.
>
> However, I one "believes" they have something "special" and they feel
> comfortable with it, that's fine with me. I don't really care. My
> issue is with sellers trying to squeeze a few more bucks out of sale
> on the pretext of it having a "gold" label. Obviously, if the rig has
> additional filters versus one that does not, there should be an
> incremental price difference regardless of what color(gold/silver/
> red/blue/ green) label is on the rig.
>
> Pete, wa2cwa
>
> On Mon, 4 Sep 2006 17:43:05 -0700 (PDT) Ruben Echevarria
> writes:
>> Well since I have both I'll tell you. The Gold has both filters and
>> the Silver has only one. Other than that I seen no other difference.
>> Yes there was an 830M which had am capabilities.
>>
>> Myth....? Not in my case ...
>> KA2HHB
>>
>>
>> Ruben Echevarria
>> ka2hhb_2000@ yahoo.com
>> exracer1@verizon. net
>> http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html
>
>
>

> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

9284. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 02:26:46 UTC
From: mikefr24
Topic: 9239 Message: 9284

Ok. I finally got to look at the radio a bit more today. 10m is defiantly the only problem. The frequency jumps around a lot on the digital display on receive only. It does not appear to actually change the radio's frequency but only what's displayed. I can lock onto a signal and hear it just fine, but the display goes whacko. When I transmit the display will go rock solid but I only can get 10-20 watts. I looked at the band switch but can't really tell anything until I take it out. Is there an easy way to get that out? or do I just have to start taking everything out? I noticed that there is a chain on it and the shaft goes into the finals area. I have never disassembled the band switch before.

This problem seems like dirty contacts somewhere but I am no expert on RF equipment.

9285. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 02:38:49 UTC
From: David Rust
Topic: 9239 Message: 9285

mikefr24, I wouldn't be too hasty to start taking things apart if you don't have too. Try some good tuner cleaner, the gang here tells me to use Deoxit. I havent had to do that to any I have worked on, but I wouldn't take off any more parts than necessary. I took my bandswitch apart, and thought I was Mr. Cool and would get it back exactly as it came out. After 3 or 4 tries I got it back right. 'Taint easy as I thought.

Spray the heck out of everything with cleaner and canned compressed air before you start tearing up would be my advice.

There are very knowledgable guys on here that I know can help you with this. I have read their replies and they are experienced in what they say and do.

Good luck, my 2cents worth.
Dave W0DLR 73

[Non-text portions of this message have been removed]

9286. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 02:50:55 UTC
From: Gordon
Topic: 9239 Message: 9286

Mike,
You do NOT need to take the Bandswitch apart to clean it.
Turn the radio OFF and allow time for the plate voltage to bleed down
on the finals. Then remove the Finals Cover.
Spray all the wafers for the bandswitch while rotating the bandswitch
all the way back and forth. Do this couple of times. Put the cover
back on the finals cage and fire up the Rig.
I think you may be surprised at the results.
Nothing Difficult here.
Let us know your results and we will continue from here if need be.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@...>
wrote:
>
> Ok. I finally got to look at the radio a bit more today. 10m is
> defiantly the only problem. The frequency jumps around a lot on the
> digital display on receive only. It does not appear to actually change
> the radio's frequency but only what's displayed. I can lock onto a
> signal and hear it just fine, but the display goes whacko. When I
> transmit the display will go rock solid but I only can get 10-20
> watts. I looked at the band switch but can't really tell anything
> until I take it out. Is there an easy way to get that out? or do I
> just have to start taking everything out? I noticed that there is a
> chain on it and the shaft goes into the finals area. I have never
> disassembled the band switch before.
>
> This problem seems like dirty contacts somewhere but I am no expert on
> RF equipment.
>

9287. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 02:55:05 UTC
From: Gordon
Topic: 9239 Message: 9287

Very good Advice Dave.
Yes, I wouldn't leave home without my De-Oxit. hi hi..

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> mikefr24, I wouldn't be too hasty to start taking things apart if
you don't have too. Try some good tuner cleaner, the gang here tells
me to use Deoxit. I havent had to do that to any I have worked on,
but I wouldn't take off any more parts than necessary. I took my
bandswitch apart, and thought I was Mr. Cool and would get it back
exactly as it came out. After 3 or 4 tries I got it back right.
'Taint easy as I thought.
>
> Spray the heck out of everything with cleaner and canned compressed
air before you start tearing up would be my advice.
>
> There are very knowledgable guys on here that I know can help you
with this. I have read their replies and they are experienced in what
they say and do.
>
> Good luck, my 2cents worth.
> Dave W0DLR 73
>
> [Non-text portions of this message have been removed]
>

9288. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 02:53:40 UTC
From: Gordon
Topic: 9239 Message: 9288

Mike,
Be sure to spray ALL the bandswitch wafers, even the ones that are
NOT inside the Final Cage.. I forgot to mention that !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Mike,
> You do NOT need to take the Bandswitch apart to clean it.
> Turn the radio OFF and allow time for the plate voltage to bleed down
> on the finals. Then remove the Finals Cover.
> Spray all the wafers for the bandswitch while rotating the bandswitch
> all the way back and forth. Do this couple of times. Put the cover
> back on the finals cage and fire up the Rig.
> I think you may be surprised at the results.
> Nothing Difficult here.
> Let us know your results and we will continue from here if need be.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "mikefr24" <mikefr24@>
> wrote:
> >
> > Ok. I finally got to look at the radio a bit more today. 10m is
> > defiantly the only problem. The frequency jumps around a lot on the
> > digital display on receive only. It does not appear to actually change
> > the radio's frequency but only what's displayed. I can lock onto a
> > signal and hear it just fine, but the display goes whacko. When I
> > transmit the display will go rock solid but I only can get 10-20
> > watts. I looked at the band switch but can't really tell anything
> > until I take it out. Is there an easy way to get that out? or do I
> > just have to start taking everything out? I noticed that there is a
> > chain on it and the shaft goes into the finals area. I have never
> > disassembled the band switch before.
> >
> > This problem seems like dirty contacts somewhere but I am no expert on
> > RF equipment.
> >
>

9289. The Gold TS-830 exposed and The Heil "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 08:20:12 UTC
From: n9wb
Topic: 9289 Message: 9289

RE TS-830 Gold Edition, the facts.

The Kenwood Gold TS 830 uses special beta components that will outlast standard 830s and incorporates a electron accelerator in the screen grid circuit that has several advantages.

It was coveted by DX'ers because their signals would arrive at the DX station slightly ahead of the others giving a decided advantage in pile ups.

Unfortunately, the ARRL threatened to pull all of Kenwood's advertising from QSTs if they did not cease manufacture immediately. They considered this cheating in the contests and DX operations.

Kenwood complied and the Gold Kenwood was short lived. These rigs are rare because DX'ers who have them seldom sell them or let it be known that they own them for fear of government reprisal.

When they do end up on e-bay it is rumored that the government runs the biding up and snatches them up never to be seen again.

Bob Heil later coined the name Gold Line for one of his microphone lines and it is rumored that he incorporated a speech accelerator diaphragm comprised of accelloranium, an irradiated form of gold in some of his Gold Line elements, but Bob is very hush hush about this.

And Bob is seldom hush hush.

Vy 73, Walt N9WB

9290. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 08:30:30 UTC
From: n9wb
Topic: 9239 Message: 9290

You should not have to remove your bandswitch to clean it.

Vy 73, Walt N9WB

----- Original Message -----
From: mikefr24
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 05, 2006 9:26 PM
Subject: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Ok. I finally got to look at the radio a bit more today. 10m is
defiantly the only problem. The frequency jumps around a lot on the
digital display on receive only. It does not appear to actually change
the radio's frequency but only what's displayed. I can lock onto a
signal and hear it just fine, but the display goes whacko. When I
transmit the display will go rock solid but I only can get 10-20
watts. I looked at the band switch but can't really tell anything
until I take it out. Is there an easy way to get that out? or do I
just have to start taking everything out? I noticed that there is a
chain on it and the shaft goes into the finals area. I have never
disassembled the band switch before.

This problem seems like dirty contacts somewhere but I am no expert on
RF equipment.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/06

[Non-text portions of this message have been removed]

9291. Re: [TS-520_820_530_830] 830 Gold Edition

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 10:09:17 UTC
From: Dave and Loraine
Topic: 9252 Message: 9291

Nice one Dave!

9292. Re: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 12:13:41 UTC
From: n9wb
Topic: 9226 Message: 9292

Ruben:
I was reading your posts on your TS-830 ALC meter pinning.
Is the following true:
1. The ALC meter pins only on transmit and then only when the meter switch is in the ALC position?
2. The radio receives?
3. The radio has no transmit?

Check all of the plugs to the boards, especially the IF, RF, and audio boards. Are they plugged in correctly. They can sometimes be plugged in with the wrong pins in the wrong holes and sometimes pins will get out of alignment and not go into the connector. Do the plugs appear to be in good shape?

You can leave the filaments off while performing the following tests. Do not leave the meter pinned very long.

Remove the 12BY7. Does the ALC meter still pin ? Leave it out for now.
If it stops pinning stop and tell us. If it still does turn the radio off , unplug it and proceed.

Carefully Remove connector 4 from the IF board. It may have ALM written next to a pin.

Fire the rig back up and see if the meter still pins. Unplug and turn off the radio.

If the meter still pins, stop here and tell us. If it stops pinning, proceed.

Replace connector 4 and remove connector 5. It may have a label ALC near it.

Does the meter pin now. This time, If it does not pin stop here and tell us.
If it does pin Proceed with the next step.

Take the meter out of the ALC position to save the meter. Turn the rig off, carefully replace connector 5. Turn the rig back on, place the rig back in transmit and measure the voltage on either side of VR-7.

Reply to the above and we will proceed to the next step.

Are you good enough with a soldering iron to remove and replace some parts from the IF board? This will probably require removal and replacement of the board a few times.

Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Saturday, September 02, 2006 9:08 PM
Subject: [TS-520_820_530_830] TS830S ALC Meter

Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned
to the right? Also have no RF output. SG witch checked. Finals and driver replaced.
This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen
could not find the problem. But when I sent it to him there was no ALC indication on the
meter at all. Now there is but it looks like it was wired to indicate some reading and I believe
that it's not a true reading. Basically I can't get any RF output although it recieves.
Only piece of test equipment I have is a multimeter.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

9293. Re: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 13:49:58 UTC
From: Ruben Echevarria
Topic: 9226 Message: 9293

Very good Walt will do today...Thanks for the help, lets see what happens, will update...Ruben

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 6, 2006 8:13:41 AM
Subject: Re: [TS-520_820_530_830] TS830S ALC Meter

Ruben:
I was reading your posts on your TS-830 ALC meter pinning.
Is the following true:
1. The ALC meter pins only on transmit and then only when the meter switch is in the ALC position?
2. The radio receives?
3. The radio has no transmit?

Check all of the plugs to the boards, especially the IF, RF, and audio boards. Are they plugged in correctly. They can sometimes be plugged in with the wrong pins in the wrong holes and sometimes pins will get out of alignment and not go into the connector. Do the plugs appear to be in good shape?

You can leave the filaments off while performing the following tests. Do not leave the meter pinned very long.

Remove the 12BY7. Does the ALC meter still pin ? Leave it out for now.
If it stops pinning stop and tell us. If it still does turn the radio off , unplug it and proceed.

Carefully Remove connector 4 from the IF board. It may have ALM written next to a pin.

Fire the rig back up and see if the meter still pins. Unplug and turn off the radio.

If the meter still pins, stop here and tell us. If it stops pinning, proceed.

Replace connector 4 and remove connector 5. It may have a label ALC near it.

Does the meter pin now. This time, If it does not pin stop here and tell us.
If it does pin Proceed with the next step.

Take the meter out of the ALC position to save the meter. Turn the rig off, carefully replace connector 5. Turn the rig back on, place the rig back in transmit and measure the voltage on either side of VR-7.

Reply to the above and we will proceed to the next step.

Are you good enough with a soldering iron to remove and replace some parts from the IF board? This will probably require removal and replacement of the board a few times.

Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Saturday, September 02, 2006 9:08 PM
Subject: [TS-520_820_ 530_830] TS830S ALC Meter

Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned
to the right? Also have no RF output. SG witch checked. Finals and driver replaced.
This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen
could not find the problem. But when I sent it to him there was no ALC indication on the
meter at all. Now there is but it looks like it was wired to indicate some reading and I believe
that it's not a true reading. Basically I can't get any RF output although it recieves.
Only piece of test equipment I have is a multimeter.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

9294. Re: [TS-520_820_530_830] The Gold TS-830 exposed and The Heil "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 13:48:40 UTC
From: Ruben Echevarria
Topic: 9289 Message: 9294

Yes Walt I've heard that story but was told never to speak of it...
Unidentified sources say that one of the components in the finals is called unobtanium
a byproduct of used inaquida taken from an extraterrestrial craft found in 1947 which
according to the same sources was part of an advanced communications system used
by the operators of that craft. Because of fear of reprisal I cannot disclose anymore.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 6, 2006 4:20:12 AM
Subject: [TS-520_820_530_830] The Gold TS-830 exposed and The Heil "Goldline" Name

RE TS-830 Gold Edition, the facts.

The Kenwood Gold TS 830 uses special beta components that will outlast
standard 830s and incorporates a electron accelerator in the screen grid
circuit that has several advantages.

It was coveted by DX'ers because their signals would arrive at the DX
station slightly ahead of the others giving a decided advantage in pile ups.

Unfortunately, the ARRL threatened to pull all of Kenwood's advertising from
QSTs if they did not cease manufacture immediately. They considered this
cheating in the contests and DX operations.

Kenwood complied and the Gold Kenwood was short lived. These rigs are rare
because DX'ers who have them seldom sell them or let it be
known that they own them for fear of government reprisal.

When they do end up on e-bay it is rumored that the government runs the
biding up and snatches them up never to be seen again.

Bob Heil later coined the name Gold Line for one of his microphone lines and
it is rumored that he incorporated a speech accelerator diaphragm comprised
of accelloranium, an irradiated form of gold in some of his Gold Line
elements, but Bob is very hush hush about this.

And Bob is seldom hush hush.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9295. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 15:36:55 UTC
From: John Harp
Topic: 9154 Message: 9295

Yeah, I seen those passing thru the AES catalog looking for something else. I'll be looking into the QST here soon. I read it in sections. I haven't had the problem yet, I was just learning where to find this information for when it does occur. Then I can read and ask questions. Right now I'm still moving my VHF-FM 2-meter gear back to the shed from the bedroom. The antenna is up and the radio is mounted, now the power supplies and ampmust move.

Ellen R <ellenjoanne2003@...> wrote: HI again John,

I forgot to mention that MFJ seels a bandpass filter for 2m, and PAR
Elcetronics also sells them. This month's edition of QST briefly
talks about these filters in the Q&A section.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Well thank you Ellen, I looked at it briefly. It seems that if it
is placed right behind the radio it's not as effective as placed one
quarter wave away. I didn't get to look that much in detail since I
was trying to clean up the yard.
> Ellen R <ellenjoanne2003@...> wrote:
> Hi John,
>
> I'm not 100% sure, but I think they're placed close to to your
radio
> (the the one link I gave you, thae ham states that he put it after
his
> linear). From what I remember reading in NCJ years ago, I think
those
> were after the radios, in the feedline. They were pretty close to
the
> radios too.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
wrote:
> >
> > I've seen them before Ellen. It's justy that I've heard of
quarter-
> wave stubs for matching lines,but I hadn't heard of these stubs
being

> used for traps. I wondered where it was to be placed, in frony of
the 2
> meter or the Linear? Right at the machine or a distance back? and
so
> on. Bac 2U Ellen.
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9296. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 21:31:19 UTC
From: n9wb
Topic: 9154 Message: 9296

What kind of antenna are you using? If you measure the resistance between the center and outside of the coax, does it show a short?
Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 10:36 AM
Subject: Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yeah, I seen those passing thru the AES catalog looking for something else. I'll be looking into the QST here soon. I read it in sections. I haven't had the problem yet, I was just learning where to find this information for when it does occur. Then I can read and ask questions. Right now I'm still moving my VHF-FM 2-meter gear back to the shed from the bedroom. The antenna is up and the radio is mounted, now the power supplies and ampmust move.

Ellen R <ellenjoanne2003@...> wrote: HI again John,

I forgot to mention that MFJ seels a bandpass filter for 2m, and PAR Elcetronics also sells them. This month's edition of QST briefly talks about these filters in the Q&A section.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well thank you Ellen, I looked at it briefly. It seems that if it is placed right behind the radio it's not as effective as placed one quarter wave away. I didn't get to look that much in detail since I was trying to clean up the yard.
> Ellen R <ellenjoanne2003@...> wrote:
> Hi John,
>
> I'm not 100% sure, but I think they're placed close to to your radio
> (the the one link I gave you, thae ham states that he put it after his
> linear). From what I remember reading in NCJ years ago, I think those
> were after the radios, in the feedline. They were pretty close to the
> radios too.

>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
wrote:
> >
> > I've seen them before Ellen. It's justy that I've heard of
quarter-
> wave stubs for matching lines,but I hadn't heard of these stubs
being
> used for traps. I wondered where it was to be placed, in frony of
the 2
> meter or the Linear? Right at the machine or a distance back? and
so
> on. Bac 2U Ellen.
> >

9297. Re: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 16:44:21 UTC
From: Ruben Echevarria
Topic: 9226 Message: 9297

OK Walt, here goes : I plugged the rig in fired it up ALC
was pinned to the right of the meter. I checked the AF/RF
gain knobs and the RF was set all the way up clockwise.
My mistake. My apologies to the person that I originally
sent it too. Checked the SG switch set it to on.
Got 60ma on the meter. .
Plugged in my MC50 mic, spoke into it, got plenty of swing
on modulation, pressed compressor and received a more
pronounced swing.
So speech compression seems to be fine.
Meter Mode : RF Mode switch : in CW mode
Now I'll start a full check on each band starting with 10 meters.
10 Meters: 28.375 approx 10 watts rf out - meter pins to right
12 Meters: 24.960 approx 19 watts rf out – meter pins to right
15 Meters: 21.350 approx 35 watts rf out – meter pins to right
17 Meters: 18.130 approx 35 watts rf out – meter pins to right
20 Meters: 14.300 approx 35 watts rf out – meter pins to right
30 Meters: 10.125 approx 35 watts rf out - meter pins to right
40 Meters: 7.260 approx 28 watts rf out – meter pins to right
80 Meters: 3.860 approx 20 watts rf out – meter pins to right
160 Meters 1.830 approx 10 watts rf out – meter pins to right

Be advised ALC seems to be ok now. No longer pinning to right.
But when "METER" mode switch is set to "RF" the meter does
swing and pins to right side of meter.
Power output check was done with "MODE" switch in the "CW"
position.

The finals are fresh 6146W from RF Parts as well as the driver.
Receive seems to be fine. As loud and clear as my other TS830S
Platinum Edition (hi) ..

Well that's about it for now …Thanks for the help Walt
73 Ruben..KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 6, 2006 8:13:41 AM
Subject: Re: [TS-520_820_530_830] TS830S ALC Meter

Ruben:
I was reading your posts on your TS-830 ALC meter pinning.
Is the following true:
1. The ALC meter pins only on transmit and then only when the meter switch is in the ALC position?
2. The radio receives?
3. The radio has no transmit?

Check all of the plugs to the boards, especially the IF, RF, and audio boards. Are they plugged in correctly. They can sometimes be plugged in with the wrong pins in the wrong holes and sometimes pins will get out of alignment and not go into the connector. Do the plugs appear to be in good shape?

You can leave the filaments off while performing the following tests. Do not leave the meter pinned very long.

Remove the 12BY7. Does the ALC meter still pin ? Leave it out for now.
If it stops pinning stop and tell us. If it still does turn the radio off , unplug it and proceed.

Carefully Remove connector 4 from the IF board. It may have ALM written next to a pin.

Fire the rig back up and see if the meter still pins. Unplug and turn off the radio.

If the meter still pins, stop here and tell us. If it stops pinning, proceed.

Replace connector 4 and remove connector 5. It may have a label ALC near it.

Does the meter pin now. This time, If it does not pin stop here and tell us.
If it does pin Proceed with the next step.

Take the meter out of the ALC position to save the meter. Turn the rig off, carefully replace connector 5. Turn the rig back on, place the rig back in transmit and measure the voltage on either side of VR-7.

Reply to the above and we will proceed to the next step.

Are you good enough with a soldering iron to remove and replace some parts from the IF board? This will probably require removal and replacement of the board a few times.

Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Saturday, September 02, 2006 9:08 PM
Subject: [TS-520_820_ 530_830] TS830S ALC Meter

Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned

to the right? Also have no RF output. SG witch checked. Finals and driver replaced.
This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen
could not find the problem. But when I sent it to him there was no ALC indication on the
meter at all. Now there is but it looks like it was wired to indicate some reading and I believe
that it's not a true reading. Basically I can't get any RF output although it recieves.
Only piece of test equipment I have is a multimeter.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

9298. RF Board Chain Link Drive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 21:53:52 UTC
From: Bill Scurlock
Topic: 9298 Message: 9298

Question for the "Group"

The chain link drive furthest from the front panel on my TS-830S is very slightly loose compared to the other two chain link drives on this shaft. This makes it necessary to very gently wiggle the Drive Control knob to obtain a simultaneous "peak" on both Tx and Rx when tuning up. Visually you can see just a small amount of slack created on one side of this chain when the shaft is rotated. The other two chains do not show this much slack.

There appears to be a circular tension spring included in each chain drive. Does anyone have any experience in adjusting this spring to tighten the chain drive? Is there another adjustment to tighten these chain drives?

Thanks,

73, Bill, K5GCW

[Non-text portions of this message have been removed]

9299. RE: [TS-520_820_530_830] The Gold TS-830 exposed and The Heil "Goldline" Name

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 20:49:57 UTC
From: Walter Milton
Topic: 9289 Message: 9299

Shame on you Walt for giving the secret away about the Gold TS-830!!!

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Wednesday, September 06, 2006 4:20 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] The Gold TS-830 exposed and The Heil "Goldline" Name

RE TS-830 Gold Edition, the facts.

The Kenwood Gold TS 830 uses special beta components that will outlast standard 830s and incorporates a electron accelerator in the screen grid circuit that has several advantages.

It was coveted by DX'ers because their signals would arrive at the DX station slightly ahead of the others giving a decided advantage in pile ups.

Unfortunately, the ARRL threatened to pull all of Kenwood's advertising from QSTs if they did not cease manufacture immediately. They considered this cheating in the contests and DX operations.

Kenwood complied and the Gold Kenwood was short lived. These rigs are rare because DX'ers who have them seldom sell them or let it be known that they own them for fear of government reprisal.

When they do end up on e-bay it is rumored that the government runs the biding up and snatches them up never to be seen again.

Bob Heil later coined the name Gold Line for one of his microphone lines and it is rumored that he incorporated a speech accelerator diaphragm comprised of accelloranium, an irradiated form of gold in some of his Gold Line elements, but Bob is very hush hush about this.

And Bob is seldom hush hush.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9300. Re: [TS-520_820_530_830] RF Board Chain Link Drive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 22:49:41 UTC
From: Ruben Echevarria
Topic: 9298 Message: 9300

The nylon pedestal that the shaft rides on has it become elongated?
If so you may be able to create a shim and place it under or around the
shaft. It all depends on how much clearance there is. Get a telescoping
antenna, similar to one from an old transistor radio and with a tubing
cutter, cut maybe a 1/4 inch section and fit it to end of the shaft and onto
the pedestal. Or maybe somone in the group may have a replacement.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: Bill Scurlock <k5gcw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 6, 2006 5:53:52 PM
Subject: [TS-520_820_530_830] RF Board Chain Link Drive

Question for the "Group"

The chain link drive furthest from the front panel on my TS-830S is very slightly loose compared to the other two chain link drives on this shaft. This makes it necessary to very gently wiggle the Drive Control knob to obtain a simultaneous "peak" on both Tx and Rx when tuning up. Visually you can see just a small amount of slack created on one side of this chain when the shaft is rotated. The other two chains do not show this much slack.

There appears to be a circular tension spring included in each chain drive. Does anyone have any experience in adjusting this spring to tighten the chain drive? Is there another adjustment to tighten these chain drives?

Thanks,

73, Bill, K5GCW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9301. Re: [TS-520_820_530_830] Just joined - howdy!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 16:07:33 UTC
From: John Harp
Topic: 9276 Message: 9301

Hi Kieth,

The handle part you are searching for, I looked into for you. One source you may try is at Pacific Coast Parts.800-421-5080.
K01-0402-25 HANDLE CALL FOR PRICE
East Coast Transistor discontinued thier handle in stock, but was last priced at US $13.17.
You may also find responses from other people here in the group that may assist you.

Welcome to the group. I have two 830 radios myself along with MC-50 mic, the SP-230 matching speaker and SP-230 remote digital VFO with the 5 programmable memories.

You'll find others knowledgable on the topics of your questions here. Check out the archives too. Odds are somebody has had the very same problem before. There are repair people with shops here who do work as well. Many do thier own work as these radios are able to be worked on relatively easily, being of that era that they were designed and manufactured.

So get that Kenwood radio up and running. Come talk to us on the air. various members of the group are trying to get together and maybe get a Kenwood Hybrids Net together, which takes a little time and doing.

See you on the air.

"Darwin, Keith" <keith.darwin@...> wrote:
Hi all,

Over the weekend I decided that I "needed" an 830s. Found one on an online auction site (can we say that here) and arranged for it to be shipped to me. I already know the rig is missing the side handle and don't know what else it needs and I figured this would be a good place to get a "handle" on replacement parts, alignment procedures, etc. Sorry for that bad pun, but I can't resist a pun.

Me: I'm 45, been a ham off & on for about 30 yrs. When I became active last fall after being QRT for 5 yrs, I bought a very nice 830s. SN in the 7nnnnnn range. It worked flawlessly and looked great. I used it for a bit and decided I really wanted something different so I sold in favor of a rig with QSK and a more contest-oriented RX with sharper filtering. Well, now I'm interested in having a back-up rig / 2nd receiver so I've come back around to the 830s. Part of me says I should have kept the other rig, but the one that's in the mail now has both CW filters. Assuming it works it may actually be a more capable rig than my 7nnnn rig was.

- Keith KD1E -

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9302. OT: Optivisor visual magnifier

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 23:50:57 UTC
From: james27613
Topic: 9302 Message: 9302

hi,

for those of us that are older then
our kenwood 520's sometimes it is
hard to see what we are working on.

the Optivisor makes it easier to see
what we are working on.

I just ordered one on ebay.

this seller has them on closeout, almost half off
regular retail.

http://stores.ebay.com/MIKESWHOLESALEJEWELRYSUPPLIES

look for optivisor (set or lens available)

73 james

9303. TS-830S Carrier Adjustment - Item 6

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 00:07:59 UTC
From: Bill Scurlock
Topic: 9303 Message: 9303

The SSB audio frequency response is not balanced between LSB and USB in my TS-830S. LSB sounds fairly decent, but USB has too much bass and not enough high frequencies. The Item 3 Carrier Adjustments have been set to spec., and the VBT Osc. has been set to 8375Kc per Item 5. I would like to check the Item 6 Carrier frequencies at 455Kc, but I can't figure out the drawing in the Service Manual that shows the "short jumper" near Connector 9 on the IF Board - so I don't understand where to connect the frequency counter. Can anyone clarify this for me?

Are there any adjustments other than TC2 and TC3 on the PLL Board that determine the USB and LSB transmit frequency response?

Any comments will be appreciated. Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

9304. TS520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 01:01:59 UTC
From: David Rust
Topic: 9304 Message: 9304

I just got a 520SE today via UPS from an Ebay seller.

I bought it knowing the receive was very weak and the transmit was not right.

I took both cases off and tightened each board to the chassis, and worked the bandswitch several times. Hooked the speaker back up, plugged it in and.....it worked like it probably did when it was new. The transmit didn't seem to come to life, but I didnt expect it to until I do some bandswitch spraying and cleaning.

So, not being an expert by no means, I would suggest to anyone to tighten all the boards and spray it all down before any repairs were started. Its amazing to me how these old radios work and work and work.....

I'll keep you all posted on the transmit situation.
73 and have a good week Dave W0DLR

[Non-text portions of this message have been removed]

9305. Re: [TS-520_820_530_830] TS830S ALC Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-06 17:08:21 UTC
From: Ruben Echevarria
Topic: 9226 Message: 9305

Walt I just went over to 20 meters 14.321.6 and switched between both 830's
The gold 830 is down on recieve on the "S" meter
Listening to a station on that freq. he was about an "S7" on the Silver radio and no "S" signal
on the Gold .

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 6, 2006 8:13:41 AM
Subject: Re: [TS-520_820_530_830] TS830S ALC Meter

Ruben:
I was reading your posts on your TS-830 ALC meter pinning.
Is the following true:
1. The ALC meter pins only on transmit and then only when the meter switch
is in the ALC position?
2. The radio receives?
3. The radio has no transmit?

Check all of the plugs to the boards, especially the IF, RF, and audio
boards. Are they plugged in correctly. They can sometimes be plugged in with
the wrong pins in the wrong holes and sometimes pins will get out of
alignment and not go into the connector. Do the plugs appear to be in good
shape?

You can leave the filaments off while performing the following tests. Do not
leave the meter pinned very long.

Remove the 12BY7. Does the ALC meter still pin ? Leave it out for now.
If it stops pinning stop and tell us. If it still does turn the radio off ,
unplug it and proceed.

Carefully Remove connector 4 from the IF board. It may have ALM written next
to a pin.

Fire the rig back up and see if the meter still pins. Unplug and turn off
the radio.

If the meter still pins, stop here and tell us. If it stops pinning,
proceed.

Replace connector 4 and remove connector 5. It may have a label ALC near it.

Does the meter pin now. This time, If it does not pin stop here and tell us. If it does pin Proceed with the next step.

Take the meter out of the ALC position to save the meter. Turn the rig off, carefully replace connector 5. Turn the rig back on, place the rig back in transmit and measure the voltage on either side of VR-7.

Reply to the above and we will proceed to the next step.

Are you good enough with a soldering iron to remove and replace some parts from the IF board? This will probably require removal and replacement of the board a few times.

Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Saturday, September 02, 2006 9:08 PM
Subject: [TS-520_820_ 530_830] TS830S ALC Meter

Any thoughts as to why when I switch to ALC on my TS830S the needle gets pinned
to the right? Also have no RF output. SG witch checked. Finals and driver replaced.
This is the number 1 TS830S that I sent out for repair and for some reason the gentlemen
could not find the problem. But when I sent it to him there was no ALC indication on the
meter at all. Now there is but it looks like it was wired to indicate some reading and I believe
that it's not a true reading. Basically I can't get any RF output although it recieves.
Only piece of test equipment I have is a multimeter.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

9306. Re: [TS-520_820_530_830] TS-830S Carrier Adjustment - Item 6

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 01:47:21 UTC
From: Art
Topic: 9303 Message: 9306

Hi Bill, I am not sure if this will help you but check it out. Look at page 5 item C.
http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=13182

73
Art
WB4MNK
See you tomorrow.
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 8:07 PM
Subject: [TS-520_820_530_830] TS-830S Carrier Adjustment - Item 6

The SSB audio frequency response is not balanced between LSB and USB in my TS-830S. LSB sounds fairly decent, but USB has too much bass and not enough high frequencies. The Item 3 Carrier Adjustments have been set to spec., and the VBT Osc. has been set to 8375Kc per Item 5. I would like to check the Item 6 Carrier frequencies at 455Kc, but I can't figure out the drawing in the Service Manual that shows the "short jumper" near Connector 9 on the IF Board - so I don't understand where to connect the frequency counter. Can anyone clarify this for me?

Are there any adjustments other than TC2 and TC3 on the PLL Board that determine the USB and LSB transmit frequency response?

Any comments will be appreciated. Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.0/439 - Release Date: 9/6/2006

[Non-text portions of this message have been removed]

9307. TS830S Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 02:11:18 UTC
From: Ruben Echevarria
Topic: 9307 Message: 9307

Well Walt I removed the IF board completely, cleaned it then resoldered the pins on the front connector we spoke of. I also checked all the other solder joints with a magnifying glass, all looked good. I replaced the board fired up the rig and now my receive is right up there as compared to my other TS830S.
Still get get enough RF output. Only about 60 watts on 14.310.
I have a used set of 6146B and was thinking of doing a switch there. Although the W's that are in, are brand new and so is the driver.
Seems to me like we're making some headway.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

9308. Re: [TS-520_820_530_830] OT: Optivisor visual magnifier

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 02:41:20 UTC
From: John Harp
Topic: 9302 Message: 9308

How is it for reading the frequency on the knobs. That's where I'm having problems. I look at the frequency counter more now because of it.

james27613 <james27613@...> wrote: hi,

for those of us that are older then
our kenwood 520's sometimes it is
hard to see what we are working on.

the Optivisor makes it easier to see
what we are working on.

I just ordered one on ebay.

this seller has them on closeout, almost half off
regular retail.

http://stores.ebay.com/MIKESWHOLESALEJEWELRYSUPPLIES

look for optivisor (set or lens available)

73 james

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9309. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 02:38:21 UTC
From: John Harp
Topic: 9154 Message: 9309

Walt,
Ellen had made reference to a quarter wave trap. I had not heard this technique prior and inquired as to details. She further corrected the term to phasing stub, a term I was familiar with. She further assisted me with reference to web pages for additional explanation. Also she had spoken of the articles in QST and some filters and who were the manufacturers.

I have not as of yet had this problem to contend with, however to hear of such a circumstance and how it is corrected is of interest to me. I learn who has this information and possible knowledge taht I may later refer back to for questions etc.

I am soon to reinstall my VHF-FM 2 meter gear back in the same station again. If such a condition occurs then it is easier to deal with that problem at that time. I have had my station put together before and no problems at previous QTH's but not here, especially with my Amplifiers. Then also it was 2 and 440 on handheld and couldn't run both from the same recepticle at the same time. Now I have expanded my station and conditions could change. Now I have linears on VHF and HF. I have slowly prepared this time planning carefully. I don't even have a TVI or RFI problem anywhere, not even in the shack since I took the end fed windom off the 830 and tuner.

When the topic arose, I stopped to obtain the references and basic info, and know where the rest could be found later.

As you know I'm running A full-size 40 meter quarter-wave with 1/2 inch hardline of 115 feet. I got the long wire out of the shack and life got better everywhere but on 160. Now I bring in 2 meters a little at a time and slowly add gear till I see a problem. Unlikely I will but just in case I know a little more to deal with it. The VHF gear is on a 1/4 wave vertical at 20 feet from ground just above the building that houses the HF station including the High Power Amplifier.

The only problem I'm having beyond the recieving noise which is typical of 40, 80 and 160, is getting enough power to run everything, including the computer.

So that's what that is about.

n9wb <n9wb@...> wrote:
What kind of antenna are you using? If you measure the resistance between
the center and outside of the coax, does it show a short?
Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 10:36 AM
Subject: Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF

radio? - addtional filter info

Yeah, I seen those passing thru the AES catalog looking for something else. I'll be looking into the QST here soon. I read it in sections. I haven't had the problem yet, I was just learning where to find this information for when it does occur. Then I can read and ask questions. Right now I'm still moving my VHF-FM 2-meter gear back to the shed from the bedroom. The antenna is up and the radio is mounted, now the power supplies and ampmust move.

Ellen R <ellenjoanne2003@...> wrote: HI again John,

I forgot to mention that MFJ seels a bandpass filter for 2m, and PAR Elcetronics also sells them. This month's edition of QST briefly talks about these filters in the Q&A section.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well thank you Ellen, I looked at it briefly. It seems that if it is placed right behind the radio it's not as effective as placed one quarter wave away. I didn't get to look that much in detail since I was trying to clean up the yard.
> Ellen R <ellenjoanne2003@...> wrote:
> Hi John,
>
> I'm not 100% sure, but I think they're placed close to to your radio
> (the the one link I gave you, thae ham states that he put it after his
> linear). From what I remember reading in NCJ years ago, I think those
> were after the radios, in the feedline. They were pretty close to the
> radios too.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > I've seen them before Ellen. It's justy that I've heard of quarter-
> wave stubs for matching lines,but I hadn't heard of these stubs being
> used for traps. I wondered where it was to be placed, in frony of the 2
> meter or the Linear? Right at the machine or a distance back? and so

> on. Bac 2U Ellen.
> >

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9310. TS520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 02:55:36 UTC
From: David Rust
Topic: 9304 Message: 9310

Gang, I'm happy to report the 520SE transmit worked ok too. Got into the SW Traffic net on 3935 tonite on the first try. The output seems to be down a little, but after thinking about it, I may have been on the wrong antenna. "Cockpit error" I think its called.

I love those Knobs. Knobs over menus anyday.
73 Dave W0DLR

[Non-text portions of this message have been removed]

9311. Re: no reception of wwv

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 03:32:35 UTC
From: tj_ki4etm
Topic: 9222 Message: 9311

I'm having the same problem with my TS-520S. I havent tried to align it or anything, but sounds like that is not my problem. On mine, if you switch to cal. 25, and tune to 15Mhz, you can just barely hear the tone, you will have to turn the volume up some to hear it. Is yours the same way?
T.J.

--- In TS-520_820_530_830@yahoogroups.com, "Sergio Potes" <verotex@...> wrote:
>
> Gordon:
> Thsnks for your e-mail.
> The radio I have is a TS-520SE that is in pretty good shape but I
> have no reception of wwv and I fallow the manuals aligment procedure
> for the reception of 15K wwv and I can't coty anything there.
> Thank you! Sergio AE4TO
> >
>

9312. Re: [TS-520_820_530_830] TS-830S Carrier Adjustment - Item 6

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 04:02:10 UTC
From: Bill Scurlock
Topic: 9303 Message: 9312

Thanks Art. This method is certainly worth a try. I'm printing it out right now.

73, Bill, K5GCW
----- Original Message -----
From: Art
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 8:47 PM
Subject: Re: [TS-520_820_530_830] TS-830S Carrier Adjustment - Item 6

Hi Bill, I am not sure if this will help you but check it out. Look at page 5 item C.
http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=13182

73
Art
WB4MNK
See you tomorrow.
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 8:07 PM
Subject: [TS-520_820_530_830] TS-830S Carrier Adjustment - Item 6

The SSB audio frequency response is not balanced between LSB and USB in my TS-830S. LSB sounds fairly decent, but USB has too much bass and not enough high frequencies. The Item 3 Carrier Adjustments have been set to spec., and the VBT Osc. has been set to 8375Kc per Item 5. I would like to check the Item 6 Carrier frequencies at 455Kc, but I can't figure out the drawing in the Service Manual that shows the "short jumper" near Connector 9 on the IF Board - so I don't understand where to connect the frequency counter. Can anyone clarify this for me?

Are there any adjustments other than TC2 and TC3 on the PLL Board that determine the USB and LSB transmit frequency response?

Any comments will be appreciated. Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.0/439 - Release Date: 9/6/2006

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9313. Wide SSB Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 04:44:28 UTC
From: max_ve3tmt
Topic: 9313 Message: 9313

If anyone is interested in picking up a 3 KHz wide SSB filter for their TS-830 there is an entire IF board with such filter on eBay now with a "buy it now" price of only $75. That's more than the filters go for alone. Item # 320025048441

Max VE3TMT

9314. Re: Wide SSB Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 04:55:24 UTC
From: Gordon
Topic: 9313 Message: 9314

Max,
That is for a TS-930 and he says in the description that he is
removing the relays and Filters before selling it ...

Not really a good deal for the Buy it Now price.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> If anyone is interested in picking up a 3 KHz wide SSB filter for
> their TS-830 there is an entire IF board with such filter on eBay now
> with a "buy it now" price of only $75. That's more than the filters go
> for alone. Item # 320025048441
>
> Max VE3TMT
>

9315. Re: RF Board Chain Link Drive

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 04:57:36 UTC
From: Gordon
Topic: 9298 Message: 9315

I would carefully remove the spring, gently use a pair of pliers to compress it, then re-install it. I see no reason why that wouldn't work just fine.
Of course, Rubens idea would also work well.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Question for the "Group"
>
> The chain link drive furthest from the front panel on my TS-830S is very slightly loose compared to the other two chain link drives on this shaft. This makes it necessary to very gently wiggle the Drive Control knob to obtain a simultaneous "peak" on both Tx and Rx when tuning up. Visually you can see just a small amount of slack created on one side of this chain when the shaft is rotated. The other two chains do not show this much slack.
>
> There appears to be a circular tension spring included in each chain drive. Does anyone have any experience in adjusting this spring to tighten the chain drive? Is there another adjustment to tighten these chain drives?
>
> Thanks,
>
> 73, Bill, K5GCW
>
> [Non-text portions of this message have been removed]
>

9316. TS-530

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 07:05:00 UTC
From: Richard Harris
Topic: 5014 Message: 9316

There are many of the major parts for a TS-530 on Ebay in the UK at present - 3 days to go. There are PCBs, VFO, mains transformer, set of knobs etc.

Richard G3OTK

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh,
Hampshire SO53 4DG
United Kingdom

Tel: +44 (0) 2380 240250
Fax: +44 (0) 2380 240251
Mobile: +44 (0) 7808 935630

Web site: www.pipstechnology.com

DISCLAIMER: This electronic mail message and any attachment may contain information that is legally privileged, confidential or exempt from disclosure. It is intended only for the use of the individual or organisation to whom it is addressed. If you are not the intended recipient it is strictly prohibited to disclose, use, store or copy this information.

9317. Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 08:57:37 UTC
From: n9wb
Topic: 9154 Message: 9317

The reason I asked what kind of antenna you used on two and 440 is that if it were a shunt fed antenna, one that showed a short between the center and outside of the coax connector, it would short out a lot of the H.F. signal.

John:
I will have to check the back posts to see what Ellen suggested, but a 1/4 wave piece of coax shorted at one end with a PL-259 on the other can be connected to a Tee connector at the back of your rig. On the frequency that it is a quarter wave, it will disappear, but on H.F., it will appear as almost a dead short. On 440 It will be 3/4 wavelength so I believe it would work there too. BTW, I assume that you know that a 1/4 wave series fed 2 meter antenna will double as a 3/4 wave 440 antenna.

Now, the next problem is the RF from the VHF or UHF amp getting into the H.F. system. If you are using a balun or a tuner with a balun or a tuner on H.F., I would not worry about it as it will block the uhf/vhf.

To make a quarter wave stub, make it's length 246/ F in MHz. Then multiply this by the velocity factor of the coax you will use. The velocity factor of most RG 58 U is .66. But if you want to you can look it up for the coax you are going to use. I usually use 13 inches for 2 meters measured from the edge where the center prong of the PL 259 comes out back to the end of the piece of coax. The end opposite the PL-259 must be shorted.

This method can also be used to DC ground an antenna to ground out DC from nearby lightning.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 9:38 PM
Subject: Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Walt,
Ellen had made reference to a quarter wave trap. I had not heard this technique prior and inquired as to details. She further corrected the term to phasing stub, a term I was familiar with. She further assisted me with reference to web pages for additional explanation. Also she had spoken of the articles in QST and some filters and who were the manufacturers.

I have not as of yet had this problem to contend with, however to hear of such a circumstance and how it is corrected is of interest to me. I learn who has this information and possible knowledge taht I may later refer back to for questions etc.

I am soon to reinstall my VHF-FM 2 meter gear back in the same station again. If such a condition occurs then it is easier to deal with that problem at that time. I have had my station put together before and no problems at previous QTH's but not here, especially with my Amplifiers. Then also it was 2 and 440 on handheld and couldn't run both from the same recepticle at the same time. Now I have expanded my station and conditions could change. Now I have linears on VHF and HF. I have slowly prepared this time planning carefully. I don't even have a TVI or RFI problem anywhere, not even in the shack since I took the end fed windom off the 830 and tuner.

When the topic arose, I stopped to obtain the references and basic info, and know where the rest could be found later.

As you know I'm running A full-size 40 meter quarter-wave with 1/2 inch hardline of 115 feet. I got the long wire out of the shack and life got better everywhere but on 160. Now I bring in 2 meters a little at a time and slowly add gear till I see a problem. Unlikely I will but just in case I know a little more to deal with it. The VHF gear is on a 1/4 wave vertical at 20 feet from ground just above the building that houses the HF station including the High Power Amplifier.

The only problem I'm having beyond the recieving noise which is typical of 40, 80 and 160, is getting enough power to run everything, including the computer.

So that's what that is about.

n9wb <n9wb@...> wrote:
What kind of antenna are you using? If you measure the resistance between the center and outside of the coax, does it show a short?
Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 06, 2006 10:36 AM
Subject: Re: [TS-520_820_530_830] Re: can HF transmit overload UHF/VHF radio? - addtional filter info

Yeah, I seen those passing thru the AES catalog looking for something else. I'll be looking into the QST here soon. I read it in sections. I haven't had the problem yet, I was just learning where to find this information for when it does occur. Then I can read and ask questions. Right now I'm still moving my VHF-FM 2-meter gear back to the shed from the bedroom. The antenna is up and the radio is mounted, now the power supplies and ampmust move.

Ellen R <ellenjoanne2003@...> wrote: HI again John,

I forgot to mention that MFJ seels a bandpass filter for 2m, and PAR Elcetronics also sells them. This month's edition of QST briefly talks about these filters in the Q&A section.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>

> Well thank you Ellen, I looked at it briefly. It seems that if it
is placed right behind the radio it's not as effective as placed one
quarter wave away. I didn't get to look that much in detail since I
was trying to clean up the yard.
> Ellen R <ellenjoanne2003@...> wrote:
> Hi John,
>
> I'm not 100% sure, but I think they're placed close to to your
radio
> (the the one link I gave you, thae ham states that he put it after
his
> linear). From what I remember reading in NCJ years ago, I think
those
> were after the radios, in the feedline. They were pretty close to
the
> radios too.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
wrote:
> >
> > I've seen them before Ellen. It's justy that I've heard of
quarter-
> wave stubs for matching lines,but I hadn't heard of these stubs
being
> used for traps. I wondered where it was to be placed, in frony of
the 2
> meter or the Linear? Right at the machine or a distance back? and
so
> on. Bac 2U Ellen.
> >

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.11.7/438 - Release Date: 9/5/06

[Non-text portions of this message have been removed]

9318. Re: Wide SSB Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 11:34:01 UTC
From: max_ve3tmt
Topic: 9313 Message: 9318

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Max,
> That is for a TS-930 and he says in the description that he is
> removing the relays and Filters before selling it ...

Oops...Guess I didn't read the fine print! Sorry guys.

Max

9319. RE: [TS-520_820_530_830] Wide SSB Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 11:23:15 UTC
From: Darwin, Keith
Topic: 9313 Message: 9319

The auction text is poorly written but it looks like he plans to pull
the relays and filters before selling the board. And that board is for
a 930s. Check carefully.

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of max_ve3tmt
Sent: Thursday, September 07, 2006 12:44 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Wide SSB Filter

If anyone is interested in picking up a 3 KHz wide SSB filter for their
TS-830 there is an entire IF board with such filter on eBay now with a
"buy it now" price of only $75. That's more than the filters go
for alone. Item # 320025048441

Max VE3TMT

---------- Yahoo! Groups Sponsor ----------~-->
Check out the new improvements in Yahoo! Groups email.
http://us.click.yahoo.com/7EuRwD/fOaOAA/yQLSAA/ELTolB/TM
---~->

Yahoo! Groups Links

9320. Re: Wide SSB Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 12:44:35 UTC
From: max_ve3tmt
Topic: 9313 Message: 9320

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

And that board is for a 930s.Check carefully.

Keith,

I was aware that the board is from the 930. The 930's and 870's came
from the factory with a 3 Khz SSB filter as standard, so aside from
not reading the small print, I thought someone might be interested in
the item. I have the exact same filter in my 830.

Max VE3TMT

9321. Re: OT: Optivisor visual magnifier

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 13:21:45 UTC
From: james27613
Topic: 9302 Message: 9321

Hi John,

the optivisor has seven different lens plates that can
be changed out for the task at hand. Model DA-0 is just the
headband and no lens is included. Lens are precision glass.
you can flip up the lens hood when not needed and it can
be used with eyeglasses or safety glasses.

http://www.doneganoptical.com/optivisor.php (mfg link)

the lx model is similar to the original but uses platic lens

http://www.doneganoptical.com/optivisorlx.php

73 james ke4drn

> How is it for reading the frequency on the knobs. That's where I'm
having problems. I look at the frequency counter more now because of it.

9322. RE: [TS-520_820_530_830] Re: Wide SSB Filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 13:14:31 UTC
From: Darwin, Keith
Topic: 9313 Message: 9322

Actually, I'd be interested in a 3 KHz filter in the 830s which is why I checked out the ad.

What a poorly written ad. When people post something for sale you'd think they'd go to the effort of making sure things are spelled correctly, that abbreviations are minimized and that complete sentences are used.

Tnx for the heads up Max. At the least it has increased my knowledge which is a good thing!

73!

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of max_ve3tmt

Keith,

I was aware that the board is from the 930. The 930's and 870's came from the factory with a 3 Khz SSB filter as standard, so aside from not reading the small print, I thought someone might be interested in the item. I have the exact same filter in my 830.

Max VE3TMT

---------- Yahoo! Groups Sponsor ----------~-->
Something is new at Yahoo! Groups. Check out the enhanced email design.
http://us.click.yahoo.com/TktRrD/gOaOAA/yQLSAA/ELTolB/TM
---~->

Yahoo! Groups Links

9323. Re: [TS-520_820_530_830] Re: OT: Optivisor visual magnifier

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 16:41:07 UTC
From: John Harp
Topic: 9302 Message: 9323

Ok maybe it's something to try then.

james27613 <james27613@...> wrote: Hi John,

the optivisor has seven different lens plates that can
be changed out for the task at hand. Model DA-0 is just the
headband and no lens is included. Lens are precision glass.
you can flip up the lens hood when not needed and it can
be used with eyeglasses or safety glasses.

http://www.doneganoptical.com/optivisor.php (mfg link)

the lx model is similar to the original but uses platic lens

http://www.doneganoptical.com/optivisorlx.php

73 james ke4drn

> How is it for reading the frequency on the knobs. That's where I'm
having problems. I look at the frequency counter more now because of it.

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9324. Re: [TS-520_820_530_830] TS520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 16:43:29 UTC
From: John Harp
Topic: 9304 Message: 9324

Amen. And congrats on getting it to the air.

David Rust <dlrust@centurytel.net> wrote: Gang, I'm happy to report the 520SE transmit worked ok too. Got into the SW Traffic net on 3935 tonite on the first try. The output seems to be down a little, but after thinking about it, I may have been on the wrong antenna. "Cockpit error" I think its called.

I love those Knobs. Knobs over menus anyday.
73 Dave W0DLR

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9325. Re: no reception of wwv

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-07 17:27:10 UTC
From: harrycwleung
Topic: 9222 Message: 9325

--- In TS-520_820_530_830@yahoogroups.com, "tj_ki4etm" <t_jjewell@...>
wrote:
>
> I'm having the same problem with my TS-520S. I havent tried to align
> it or anything, but sounds like that is not my problem. On mine, if
> you switch to cal. 25, and tune to 15Mhz, you can just barely hear the
> tone, you will have to turn the volume up some to hear it. Is yours
> the same way?
> T.J.
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Sergio Potes"
> verotex@ wrote:
> >
> > Gordon:
> > Thsnks for your e-mail.
> > The radio I have is a TS-520SE that is in pretty good shape but I
> > have no reception of wwv and I fallow the manuals aligment procedure
> > for the reception of 15K wwv and I can't coty anything there.
> > Thank you! Sergio AE4TO
> > >
> >
>
Hi, U have to tune to 0 Hz on the dial to receive WWV. Hope this will
help. Harry.

9326. Audio roll-off on Mic amp etc..help please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 00:46:53 UTC
From: wayfound2000
Topic: 9326 Message: 9326

Hello Folks! I have a TS-530S and I understand there are some component changes (caps?)to make the freq response flatter on the mic audio input and ascociated circuits? The top is apparently rolled off rapidly somewhere..any advice here?
many thanks
Pete G4HAK

9327. KA2HHB TS830S Findings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 03:19:31 UTC
From: Ruben Echevarria
Topic: 9327 Message: 9327

Hello Walt, here are my findings.

Freq. IP HV
1.900.0 210 700
3.900.0 200 700
7400.0 210 700
10.125 220 700
14.275 200 700
18.130 210 700
21.350 230 700
24.960 230 700
28.500 220 700
29.000 200 700
Peaked ALC 29.500 270ma HV700
Meter in ALC position

Removed rearmost plate cap ---current was ½ scale (replaced cap)
Removed front plate cap ------- current was ½ scale (replaced cap)
Idle current when both caps replaced returned to full scale.

By the way I replaced the W tubes with B's which produced more power.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

9328. Re: [TS-520_820_530_830] KA2HHB TS830S Findings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 09:41:30 UTC
From: n9wb
Topic: 9327 Message: 9328

How much power did you get from the Bs?

It looks like your High Voltage is low.

What high voltage do you get from the other 830? Is this one plugged in to exactly the same AC power source as the other one? No extension cords or anything different? The first thing to look for with low high voltage is the AC power source. Next would be the power supply caps in the voltage doubler. After that would be to check the diodes in the high voltage bridge circuit.
However, the diodes are easier to check.

I got a little better operating manual to the 830 and will soon have a better service manual.

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Thursday, September 07, 2006 10:19 PM
Subject: [TS-520_820_530_830] KA2HHB TS830S Findings

Hello Walt, here are my findings.

Freq. IP HV
1.900.0 210 700
3.900.0 200 700
7400.0 210 700
10.125 220 700
14.275 200 700
18.130 210 700
21.350 230 700
24.960 230 700
28.500 220 700
29.000 200 700
Peaked ALC 29.500 270ma HV700
Meter in ALC position

Removed rearmost plate cap ---current was ½ scale (replaced cap)
Removed front plate cap ------- current was ½ scale (replaced cap)
Idle current when both caps replaced returned to full scale.

By the way I replaced the W tubes with B's which produced more power.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...

exracer1@verizon.net
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.1/440 - Release Date: 9/6/06

[Non-text portions of this message have been removed]

9329. Re: Audio roll-off on Mic amp etc..help please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 12:55:37 UTC
From: max_ve3tmt
Topic: 9326 Message: 9329

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks! I have a TS-530S and I understand there are some
> component changes (caps?)to make the freq response flatter on the mic
> audio input and ascociated circuits? The top is apparently rolled off
> rapidly somewhere..any advice here?
> many thanks
> Pete G4HAK

Pete,

The information below is quoted from sources all over the internet. I bet if you were to look at the mic amp circuitry for the 530 and 830 they are probably the same. You could make the same changes. The part numbers might not be the same but if you trace through the schematics it shouldn't be a problem.

Max VE3TMT

Lack of crispness in transmit audio. Cause: The RF-bypass capacitor, at the collector of the 1st audio amplifier, is so large that it bypasses the higher audio frequencies along with the RF. {The amount of treble-rolloff in a stock radio is about 4.5db at 2800Hz.} Fix: On the IF Unit, at Q19, change C106 from .015µF to approx. 0.001µF. Q19 can be found directly behind the filter space for the larger of the two, optional CW-filters.

9330. Re: [TS-520_820_530_830] KA2HHB TS830S Findings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 15:26:47 UTC
From: John Harp
Topic: 9327 Message: 9330

Hi Reuben,

I'm not sure if you are aware of this or not.So I'll say it in case you don't. 6146W tubes are a high dissipation tube. They produce less out put than a 6146B tube. I run 6146B tube is the original tube sold with an 830 radio when new. It generally works best with these radios since they were made around them.

Now a 6146W tube can be substituted in many times and are more readily available probably and the 6146B. The power output is less but is good for driving a linear. I use B's and drive a linear but I so often times right now especially, run barefoot.

That was just in case you didn't know.

Ruben Echevarria <ka2hhb_2000@yahoo.com> wrote:

Hello Walt, here are my findings.

Freq. IP HV
1.900.0 210 700
3.900.0 200 700
7400.0 210 700
10.125 220 700
14.275 200 700
18.130 210 700
21.350 230 700
24.960 230 700
28.500 220 700
29.000 200 700
Peaked ALC 29.500 270ma HV700
Meter in ALC position

Removed rearmost plate cap ---current was Â½ scale (replaced cap)
Removed front plate cap ------- current was Â½ scale (replaced cap)
Idle current when both caps replaced returned to full scale.

By the way I replaced the W tubes with Bâ□□s which produced more power.

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@yahoo.com
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9331. Re: [TS-520_820_530_830] KA2HHB TS830S Findings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 16:53:47 UTC
From: Ruben Echevarria
Topic: 9327 Message: 9331

Hi John and thanks...but yes I am aware of the difference between the B's and the W's. Rught now I'm just trying to keep the sledge hammer at a distance.....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 8, 2006 11:26:47 AM
Subject: Re: [TS-520_820_530_830] KA2HHB TS830S Findings

Hi Reuben,

I'm not sure if you are aware of this or not.So I'll say it in case you don't. 6146W tubes are a high dissipation tube. They produce less out put than a 6146B tube. I run 6146B tube is the original tube sold with an 830 radio when new. It generally works best with these radios since they were made around them.

Now a 6146W tube can be substituted in many times and are more readily available probably and the 6146B. The power output is less but is good for driving a linear. I use B's and drive a linear but I so often times right now especially, run barefoot.

That was just in case you didn't know.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:

Hello Walt, here are my findings.

Freq. IP HV
1.900.0 210 700
3.900.0 200 700
7400.0 210 700
10.125 220 700
14.275 200 700
18.130 210 700
21.350 230 700
24.960 230 700
28.500 220 700
29.000 200 700
Peaked ALC 29.500 270ma HV700
Meter in ALC position

Removed rearmost plate cap ---current was Â½ scale (replaced cap)
Removed front plate cap ------- current was Â½ scale (replaced cap)

Idle current when both caps replaced returned to full scale.
------------ --------- --------- --------- --------- --------- -
By the way I replaced the W tubes with Bâs which produced more power.
------------ --------- --------- --------- --------- --------- -

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9332. Re: Audio roll-off on Mic amp etc..help please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 19:30:17 UTC
From: wayfound2000
Topic: 9326 Message: 9332

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks! I have a TS-530S and I understand there are some
> > component changes (caps?)to make the freq response flatter on
the mic
> > audio input and ascociated circuits? The top is apparently
rolled off
> > rapidly somewhere..any advice here?
> > many thanks
> > Pete G4HAK
>
> Pete,
>
> The information below is quoted from sources all over the
internet. I
> bet if you were to look at the mic amp circuitry for the 530 and
830
> they are probably the same. You could make the same changes. The
part
> numbers might not be the same but if you trace through the
schematics
> it shouldn't be a problem.
>
> Max VE3TMT
>
> Lack of crispness in transmit audio. Cause: The RF-bypass
capacitor,
> at the collector of the 1st audio amplifier, is so large that it
> bypasses the higher audio frequencies along with the RF. {The
amount
> of treble-rolloff in a stock radio is about 4.5db at 2800Hz.} Fix:
On
> the IF Unit, at Q19, change C106 from .015µF to approx. 0.001µF.
Q19
> can be found directly behind the filter space for the larger of the
> two, optional CW-filters.
>
ver helpful max many thanks! Pete

9333. Re: [TS-520_820_530_830] Re: Audio roll-off on Mic amp etc..help please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 20:33:45 UTC
From: n9wb
Topic: 9326 Message: 9333

Pete:
It is C-53 in the 530.

I agree with Max. In the 530, On the IF board kind of in the center there is a 7 pin connector. It is labeled 12 if the number is there. Next to it is Q11, R66, C 53 and C 54. Locate C-53, it is next to the round capacitor C-54. Remove C-53 a .015 uf capacitor and replace it with a .001 as Max suggested. This should make your audio more open sounding.

Thanks Max

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 7:55 AM
Subject: [TS-520_820_530_830] Re: Audio roll-off on Mic amp etc..help please?

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000" <wayfound2000@...> wrote:
>
> Hello Folks! I have a TS-530S and I understand there are some
> component changes (caps?)to make the freq response flatter on the mic
> audio input and ascociated circuits? The top is apparently rolled off
> rapidly somewhere..any advice here?
> many thanks
> Pete G4HAK

Pete,

The information below is quoted from sources all over the internet. I bet if you were to look at the mic amp circuitry for the 530 and 830 they are probably the same. You could make the same changes. The part numbers might not be the same but if you trace through the schematics it shouldn't be a problem.

Max VE3TMT

Lack of crispness in transmit audio. Cause: The RF-bypass capacitor, at the collector of the 1st audio amplifier, is so large that it bypasses the higher audio frequencies along with the RF. {The amount of treble-rolloff in a stock radio is about 4.5db at 2800Hz.} Fix: On the IF Unit, at Q19, change C106 from .015?F to approx. 0.001?F. Q19 can be found directly behind the filter space for the larger of the

two, optional CW-filters.

9334. TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 19:44:43 UTC
From: daveb0910
Topic: 9334 Message: 9334

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If I turn the mic gain down (no ALC reading, about 5-10W SSB peak output on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

9335. RE: [TS-520_820_530_830] Re: Audio roll-off on Mic amp etc..help please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 19:46:55 UTC
From: Darwin, Keith
Topic: 9326 Message: 9335

Great! ... But what/where is it in the 830s?

- Keith KD1E -

-----Original Message-----
It is C-53 in the 530.

I agree with Max. In the 530, On the IF board kind of in the center there is a 7 pin connector. It is labeled 12 if the number is there. Next to it is Q11, R66, C 53 and C 54. Locate C-53, it is next to the round capacitor C-54. Remove C-53 a .015 uf capacitor and replace it with a .001 as Max suggested. This should make your audio more open sounding.

9336. Re: [TS-520_820_530_830] Re: Audio roll-off on Mic amp etc..help please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 21:29:34 UTC
From: n9wb
Topic: 9326 Message: 9336

On the TS-830 it is C-106 on the IF board.
On the IF board there is a connector labeled 7. It is along side of CF 3. In that area you will find Q 19. C-106 is between Q 19 and the connector. It is a .015 uf.
Replace C-106 with a .001 capacitor. This should make the transmit audio more open sounding.

Vy 73, Walt N9WB

----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:46 PM
Subject: RE: [TS-520_820_530_830] Re: Audio roll-off on Mic amp etc..help please?

Great! ... But what/where is it in the 830s?

- Keith KD1E -

-----Original Message-----
It is C-53 in the 530.

I agree with Max. In the 530, On the IF board kind of in the center
there is a 7 pin connector. It is labeled 12 if the number is there.
Next to it is Q11, R66, C 53 and C 54. Locate C-53, it is next to the
round capacitor C-54. Remove C-53 a .015 uf capacitor and replace it
with a .001 as Max suggested. This should make your audio more open
sounding.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9337. Sick 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 20:40:15 UTC
From: joe sloss
Topic: 9337 Message: 9337

When I applied power to my 830 the digital display illuminated briefly and then faded out. No "white" noise in earphones when AFG is full CW. S meter swings correctly with movement of RFG. No ALC reading in transmit. No transmit. No audio from crystal calibrator. I do have -6 VDC at Counter Unit Connector 2 Pin 12 and +12DVC at same connector Pin 1.

I suspect power supply problems somewhere but my Service Manual is hiding somewhere in the shack; I would appreciate comments until the manual shows up.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

9338. TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 21:17:42 UTC
From: joe sloss
Topic: 8876 Message: 9338

Further to my previous post. I found the manual on BAMA. 9V AVR and 3.6V measurements are correct as measured at the AF board.

Joe

[Non-text portions of this message have been removed]

9339. Pass the salt!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-08 21:39:50 UTC
From: joe sloss
Topic: 9339 Message: 9339

Problem solved. There was a connector loose on the PLL board. All works well and as it should.

Pass the salt - I have the crow!

Joe k7mks

[Non-text portions of this message have been removed]

9340. Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 02:27:34 UTC
From: David S Lund
Topic: 9340 Message: 9340

I was in the middle of tuning and had an IM on the computer. For some reason I left the radio in in tune mode and forgot about it. About 10 minutes later there was a puff of smoke and the main fuse blew. I let the thing cool down for awhile and replaced the fuse - so far everything seems ok - I can't find anything that looks burned and I'm getting full output. Is there anything I should check?

David KB5DRJ

9341. Re: [TS-520_820_530_830] Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 10:30:48 UTC
From: n9wb
Topic: 9340 Message: 9341

Unplug the rig let the high voltage drain and then discharge it.

Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.

Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.

On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.

Is the power output higher than usual on Tune? If so replacing R5 will fix that.

Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.

Vy 73, Walt N9WB

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 9:27 PM
Subject: [TS-520_820_530_830] Yikes! Almost blew up my 520. :(

I was in the middle of tuning and had an IM on the computer. For some
reason I left the radio in in tune mode and forgot about it. About 10
minutes later there was a puff of smoke and the main fuse blew. I let
the thing cool down for awhile and replaced the fuse - so far
everything seems ok - I can't find anything that looks burned and I'm
getting full output. Is there anything I should check?

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9343. Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 12:31:02 UTC
From: n9wb
Topic: 9343 Message: 9343

Humm:
I was 30 years old in 1979. For some reason I can't remember as well as I did then. After reading the posts regarding the question Pete asked and the response from Max and I got to thinking.

I started remembering that I made a mod in my olde TS-820S like the one that they were talking about. That 820 was destroyed in an accident, but I have another one and I have always felt that the transmit audio was not quite as good as the olde one. Now I know why.

Anyway, this can be done to the TS 520,820,530, and 830. Here is the scoop. I have also posted this in the files section of this group under "Mods"
.....
.....
Audio Improvement in Kenwood Hybrids-corrected

The transmit audio quality of the TS 520, 820, 530, and 830 can be improved. This will make the audio less muffled, more open sounding. It will improve articulation and presence.

With the exception of the TS-520, these rigs have a .015 microfarad capacitor (sometimes labeled 153) from the collector of the mike pre amp transistor to ground. This can be changed to a .001 microfarad capacitor (102). Here is where it can be found.

TS-820
This capacitor is labeled C-100. It is located on the IF board on the lower left half between T-15 and Q-20.

TS-530

This capacitor is labeled C-53. It is located on the IF board. Near the center of this board there is a 7 pin connector labeled 12. Next to it is Q11, R66, C 53 and C 54. C-53, is next to the round capacitor C-54.

TS 830

This capacitor is labeled C-106. It is located on the IF board.
On the IF board there is a connector labeled 7. It is along side of CF 3. In that area you will find Q 19. C-106 is between Q 19 and the connector.

TS 520

The TS 520 has instead a .01 microfarad capacitor (103). It is labeled C-16
It is between Q3 and Q6 on the Generator board on the lower right side.
This can be changed to a .001 microfarad capacitor (102).

Vy 73, Walt N9WB

9344. Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 15:01:53 UTC
From: David S Lund
Topic: 9340 Message: 9344

> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.
>
> Vy 73, Walt N9WB
>

> [Non-text portions of this message have been removed]
>

Walt,

Thanks for the help - I'll get these resistors replaced.

David KB5DRJ

9345. Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 17:15:07 UTC
From: max_ve3tmt
Topic: 9343 Message: 9345

Thanks for the excellent notes Walt. I just finished swapping up C106 in my 830, and will run some tests to see if there is any change. I did want to point one thing out...

When unplugging al the harnesses from the IF board I mark the connector number on the back of the plug, that way there is no mistake when you put it back together. I have found however, some of the board side connectors came right out off the board while attempting to unplug the harness. As if the solder dried up and a hole straight through. I took this opportunity to go around the board and reseat all the connectors.

I purchased the program Hamalyzer last nght after using it for the ten day period. I have yet to hear from it's creator yet with my registration key so until then I am unable to run some tests.

Max VE3TMT

9346. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 18:33:40 UTC
From: Rick May
Topic: 9343 Message: 9346

Thanks for the great info Walt.. I looked back in my notes and I had replaced C106 with a .0022uF cap a while back and guys I talked to all the time noted a tremendous improvement in the transmit audio quality. Not sure if dropping a .001 in there would have much further effect.
Max, when I bought the HamAlyzer program he took a few days to get back to me also. Nice program though...

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: Thanks for the excellent notes Walt. I just finished swapping up C106
in my 830, and will run some tests to see if there is any change. I
did want to point one thing out...

When unplugging al the harnesses from the IF board I mark the
connector number on the back of the plug, that way there is no mistake
when you put it back together. I have found however, some of the board
side connectors came right out off the board while attempting to
unplug the harness. As if the solder dried up and a hole straight
through. I took this opportunity to go around the board and reseat all
the connectors.

I purchased the program Hamalyzer last nght after using it for the ten
day period. I have yet to hear from it's creator yet with my
registration key so until then I am unable to run some tests.

Max VE3TMT

73' Rick KC0HH
Lamar, Colorado

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9347. Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 19:03:34 UTC
From: max_ve3tmt
Topic: 9343 Message: 9347

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
Max, when I bought the HamAlyzer program he took a few days to get
back to me also. Nice program though...

73' Rick KC0HH

Thanks Rick, I'll give it some more time. I used the trial version
many times and really liked it so I finally decided to buy it! Judging
by what I am hearing in the 830's monitor I realy can't detect any
difference after the capacitor swap. I'll update when I find out for sure.

Max

9348. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 19:53:48 UTC
From: Bill Scurlock
Topic: 9343 Message: 9348

Rick and Max.

I changed out C106 in my 830 yesterday, and I used a 0.003 mfd to replace the 0.015 mfd. I used my audio oscillator to check power output before and after the changeout. At 2600 and 2700 Hz, the RF power output increased about 20-25 percent, and I can hear some improvement using my headphones (assuming my memory is any good!). I think an audio analyzer program will be a good tool to evaluate changes. I've had several QSO's today and everyone says the audio sounds clear and crisp.

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 09, 2006 2:03 PM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
Max, when I bought the HamAlyzer program he took a few days to get
back to me also. Nice program though...

73' Rick KC0HH

Thanks Rick, I'll give it some more time. I used the trial version
many times and really liked it so I finally decided to buy it! Judging
by what I am hearing in the 830's monitor I realy can't detect any
difference after the capacitor swap. I'll update when I find out for sure.

Max

[Non-text portions of this message have been removed]

9349. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 21:20:01 UTC
From: n9wb
Topic: 9343 Message: 9349

Ruben ran into the same problem with his TS-830. This should go on our frequent problems list. I will make one tomorrow morning.
Vy 73, Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 09, 2006 12:15 PM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Thanks for the excellent notes Walt. I just finished swapping up C106 in my 830, and will run some tests to see if there is any change. I did want to point one thing out...

When unplugging al the harnesses from the IF board I mark the connector number on the back of the plug, that way there is no mistake when you put it back together. I have found however, some of the board side connectors came right out off the board while attempting to unplug the harness. As if the solder dried up and a hole straight through. I took this opportunity to go around the board and reseat all the connectors.

I purchased the program Hamalyzer last nght after using it for the ten day period. I have yet to hear from it's creator yet with my registration key so until then I am unable to run some tests.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9350. Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 20:43:49 UTC
From: max_ve3tmt
Topic: 9343 Message: 9350

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:

I've had several QSO's today and everyone says the audio sounds clear
and crisp.

Bill,

What are you using for a mic?

Max

9351. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 22:14:31 UTC
From: Rick May
Topic: 9343 Message: 9351

Hi Max,

It is like trying to check your own bad breath..Hi Hi.. You can't perform audio checks on yourself using just your ears... . I have listened to myself on the monitor using two different mics and can't tell any difference, but doing the same checks on the air have people reporting quite a bit of difference. I was comparing a MC-50 and Shure 444D. I kept the Shure by the way.
Get on the air with someone you talk to all the time and do your audio checks.

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote:

Thanks Rick, I'll give it some more time. I used the trial version
many times and really liked it so I finally decided to buy it! Judging
by what I am hearing in the 830's monitor I realy can't detect any
difference after the capacitor swap. I'll update when I find out for sure.

Max

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9352. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 22:26:20 UTC
From: Rick May
Topic: 9343 Message: 9352

Hi Bill,

Very good on the capacitor swap. It is amazing sometimes how making one little change can make such a difference. I think the results with the audio roll off capacitor change will depend on how deep or high pitched one's voice is. Someone with a lot of low frequency in their voice can sound muddy on the 830S as the stock TX audio rolls off most of their highs. I don't have a real deep voice but doing the cap mod make a big improvement in my TX audio.

Bill Scurlock <k5gcw@...> wrote: Rick and Max.

I changed out C106 in my 830 yesterday, and I used a 0.003 mfd to replace the 0.015 mfd. I used my audio oscillator to check power output before and after the changeout. At 2600 and 2700 Hz, the RF power output increased about 20-25 percent, and I can hear some improvement using my headphones (assuming my memory is any good!). I think an audio analyzer program will be a good tool to evaluate changes. I've had several QSO's today and everyone says the audio sounds clear and crisp.

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 09, 2006 2:03 PM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
Max, when I bought the HamAlyzer program he took a few days to get
back to me also. Nice program though...

73' Rick KC0HH

Thanks Rick, I'll give it some more time. I used the trial version
many times and really liked it so I finally decided to buy it! Judging
by what I am hearing in the 830's monitor I realy can't detect any
difference after the capacitor swap. I'll update when I find out for sure.

Max

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9353. Re: [TS-520_820_530_830] KA2HHB TS830S Findings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 23:01:02 UTC
From: John Harp
Topic: 9327 Message: 9353

Sorry about that Reuben, I went back and read it again and found what was meant. I take it you had to replace the plate caps, is it working better now?

Ruben Echevarria <ka2hhb_2000@...> wrote: Hi John and thanks...but yes I am aware of the difference between the B's and the W's.
Rught now I'm just trying to keep the sledge hammer at a distance.....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 8, 2006 11:26:47 AM
Subject: Re: [TS-520_820_530_830] KA2HHB TS830S Findings

Hi Reuben,

I'm not sure if you are aware of this or not.So I'll say it in case you don't. 6146W tubes are a high dissipation tube. They produce less out put than a 6146B tube. I run 6146B tube is the original tube sold with an 830 radio when new. It generally works best with these radios since they were made around them.

Now a 6146W tube can be substituted in many times and are more readily available probably and the 6146B. The power output is less but is good for driving a linear. I use B's and drive a linear but I so often times right now especially, run barefoot.

That was just in case you didn't know.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:

Hello Walt, here are my findings.

Freq. IP HV
1.900.0 210 700
3.900.0 200 700
7400.0 210 700
10.125 220 700
14.275 200 700
18.130 210 700
21.350 230 700
24.960 230 700
28.500 220 700
29.000 200 700
Peaked ALC 29.500 270ma HV700

Meter in ALC position

Removed rearmost plate cap ---current was Â½ scale (replaced cap)
Removed front plate cap ------- current was Â½ scale (replaced cap)
Idle current when both caps replaced returned to full scale.
------------ --------- --------- --------- --------- --------- -
By the way I replaced the W tubes with Bâs which produced more power.
------------ --------- --------- --------- --------- --------- -

Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net
http://www.moparts. org/moparts/ picture/members/ 6/Ruben.html

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9354. Re: [TS-520_820_530_830] Pass the salt!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 23:16:24 UTC
From: John Harp
Topic: 9339 Message: 9354

Glad to see it was that simple for you. Sometimes it's better to be a simple thing overlooked.

joe sloss <k7mks@...> wrote: Problem solved. There was a connector loose on the PLL board. All works well and as it should.

Pass the salt - I have the crow!

Joe k7mks

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9355. Re: [TS-520_820_530_830] Sick 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 23:13:30 UTC
From: John Harp
Topic: 9337 Message: 9355

Joe, this may sound dumb, but just in case what's you SG Switch set at in the back. I hope you just bumped it doing something else.

joe sloss <k7mks@...> wrote: When I applied power to my 830 the digital display illuminated briefly and then faded out. No "white" noise in earphones when AFG is full CW. S meter swings correctly with movement of RFG. No ALC reading in transmit. No transmit. No audio from crystal calibrator. I do have -6 VDC at Counter Unit Connector 2 Pin 12 and +12DVC at same connector Pin 1.

I suspect power supply problems somewhere but my Service Manual is hiding somewhere in the shack; I would appreciate comments until the manual shows up.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9356. Re: [TS-520_820_530_830] Sick 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-09 23:37:11 UTC
From: Ruben Echevarria
Topic: 9337 Message: 9356

Check the bandswitch Joe..I get that at times with my #1 TS830S and I jiggle the bandswitch and it comes right back. I have to pickup some DE-Oxit and clean it properly. TV tuner spray works but it leaves an oily residue that I don't care for.
Also the connector on the right front of the IF board check that as well, I lost receive and tx was low, was checking the connectors one by one until I came across the right front connector, I pressed on it with a plastic handle and it came to life. Had to remove the board and resolder the pins checked the rest while I had the board out. The radio seems to be ok now. Working and loading as well as my other #2 TS830S.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 9, 2006 7:13:30 PM
Subject: Re: [TS-520_820_530_830] Sick 830

Joe, this may sound dumb, but just in case what's you SG Switch set at in the back. I hope you just bumped it doing something else.

joe sloss <k7mks@comcast. net> wrote: When I applied power to my 830 the digital display illuminated briefly and then faded out. No "white" noise in earphones when AFG is full CW. S meter swings correctly with movement of RFG. No ALC reading in transmit. No transmit. No audio from crystal calibrator. I do have -6 VDC at Counter Unit Connector 2 Pin 12 and +12DVC at same connector Pin 1.

I suspect power supply problems somewhere but my Service Manual is hiding somewhere in the shack; I would appreciate comments until the manual shows up.

Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9357. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 01:27:19 UTC
From: Bill Scurlock
Topic: 9343 Message: 9357

Hi Max.

Today I was using a Shure 55SW because I thought it had the flattest response and I wanted to know what the radio's audio bandpass was doing. I also use the MC-50 and Shure 444 on my Kenwood radios. The MC-50 is probably similar to the 55SW, but the 444 has more "punch" around 2000 cycles - similar to the D-104. Most people I ask say they prefer the 444 audio when I switch between the mics on Kenwood radios. On my KWS-1, I have switched between the 444 and the D-104 when talking to my brother (who knows my voice) and he cannot tell the difference on that transmitter.

Another result today was that one of the really strong stations I talked to preferred that I use the compression because he said it added low frequency response and made the overall audio sound more "brilliant". He was using the Icom 756ProIII with a wide audio setting. Normally I do not use compression, and I always thought it added to the high frequency content - not the low end. The amount of compression I used was very low - it did not even move the compression metering - just added to the average plate current a little bit.

Sorry about the long answer to your short question Max.

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 09, 2006 3:43 PM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:

I've had several QSO's today and everyone says the audio sounds clear
and crisp.

Bill,

What are you using for a mic?

Max

[Non-text portions of this message have been removed]

9358. Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 10:00:40 UTC
From: n9wb
Topic: 9334 Message: 9358

Dave:

Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:44 PM
Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If I turn the mic gain down (no ALC reading, about 5-10W SSB peak output on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9359. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 12:42:38 UTC
From: daveb0910
Topic: 9334 Message: 9359

Hello Walt
I tried removing the external speaker (I have an SP-230 with internal DSP unit fitted) but this had no effect. However, thinking along similar lines to your suggestion, I tried removing the external VFO 230 connection, and this did seem to make a difference. With VFO cable removed the audio sounded much better and with no distortion. Also the flashing display I had before on max power transmit disappeared. So, the external VFO may well be part or all of the problem.

Do you have any suggestions why this is happening and how I can cure the problem? Could it be simply a bad connection or perhaps a problem with internal shielding? Does this explain why it happens only on 21MHz and above?

This is big progress on a problem I've been trying to solve for about 9 months. Many thanks for setting me off in the right direction.

73
Dave, G3ZQH

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Dave:
>
> Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: daveb0910
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 08, 2006 2:44 PM
> Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
>
> Hello
>
> I hope someone can give advice on a long-standing problem with my TS-
> 830.

>
> The problem is audio distortion only on 21, 24 and 28MHz. It
sounds
> like RF feedback, but also occurs when I connect a dummy load so
I
> guess isn't due to RF feedback from the antenna. The other
symptom I
> have is low SSB power output on 24/28 MHz but I can still get 80-
100W
> on CW on these bands. I seem to have to turn the mic gain up much
> higher on 24/28 and have difficulty in getting any ALC response.
If
> I turn the mic gain down (no ALC reading, about 5-10W SSB peak
output
> on my power meter) the audio distortion disappears and all seems
> well. So it seems to be related to either to power output or to
the
> level of audio drive.
>
> I have tried tweaking the RF coils on 21-28MHz, but no
improvement
> was seen. Also, because I originally suspected that the problem
was
> caused RF feedback from my antenna, I have tried all the
grounding,
> ferrite filters on connecting cables etc, but this made no
difference
> either. Over the last year I have also changed the 12BY6A driver
> tube.
>
> I'm using an unmodified MC-50 mic (also have another MC-50 with a
> Heil HC-5 element, but this gives the same problem).
>
> I've reached as far as I can go and would welcome any help or
> suggestions about what is causing this problem.
>
> 73, Dave
> G3ZQH, Nottingham, England
>
>
>
>
>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date:
9/8/06
>
>
> [Non-text portions of this message have been removed]
>

9360. Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 14:46:49 UTC
From: Jeff May
Topic: 9334 Message: 9360

Hello..I have all the Kenwood hybrid models which I really enjoy. I have followed advice from this group and done well with applying fixes when neceesary to my rigs. I just encountered a problem with my TS 820S that I need help with. When I turn the AF gain up to get to a comfortable volume the AF output seems to go into oscillation...gives a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 5:00 AM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Dave:

Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:44 PM
Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If I turn the mic gain down (no ALC reading, about 5-10W SSB peak output on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver

tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a
Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or
suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9361. Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 15:06:56 UTC
From: max_ve3tmt
Topic: 9343 Message: 9361

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hi Max.
>
> Today I was using a Shure 55SW because I thought it had the flattest
response and I wanted to know what the radio's audio bandpass was
doing. I also use the MC-50 and Shure 444 on my Kenwood radios.

Currently Bill I am using a Behringer XM8500 into a W2IHY 8 band EQ.
Sounds nice but I don't get the same drive as I do with th MC-50. But
the MC-50 sounds flatter. I haven't hooked the MC-50 through the EQ
which I may do at some point just to hear what it sounds like.

Max

9362. Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 15:59:54 UTC
From: digs4ruff
Topic: 9239 Message: 9362

Gordon
Finally got a few minutes this morning to follow up on your advice. Opened the control unit and cleaned the connectors inside it. Worked like a charm. I have been down in the dumps this week with this problem with the 820s and yesterday my Clear Channel AR-3500 10/11/12M rig went south as well. I figured out how to do a CPU reset on it and it is happy again. (Anyone have an old PA for this rig?) The 820s is happy again. Barry is happy again. Thanks ever so much.

By the way while I was inside the radio I took note that it has an Inrad 94 21Khz filter. Is this a good choice? I have a very deep voice (40 yrs of cigarettes and single malt scotch) and am using an Electrovoice 638 mic.
best regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> This started with a rolling digital display. Opened all connectors
> and used de oxit. Replaced connectors (in wrong places) and display
> now stable but no ALC or Bias. WIth Gordon's help got the connectors
> back on the correct pins and back to original problem. Next weekend
> will remove control unit for a better look.
> regards
> Barry
>

9363. Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 16:12:09 UTC
From: dennis hatch
Topic: 9334 Message: 9363

You most likely have an open bypass capacitor on the audio amplifier B+ line, which causes positive feed back into the audio amp resulting in the oscillation. Check the electrolytic bypass cap on the audio amp B+......
WA0WAB.

Jeff May <W0XV@...> wrote:
Hello..I have all the Kenwood hybrid models which I really enjoy. I have followed advice from this group and done well with applying fixes when neceesary to my rigs. I just encountered a problem with my TS 820S that I need help with. When I turn the AF gain up to get to a comfortable volume the AF output seems to go into oscillation...gives a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 5:00 AM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Dave:

Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:44 PM
Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If I turn the mic gain down (no ALC reading, about 5-10W SSB peak output on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9364. Re: Corrected Audio Improvement in Kenwood 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 16:25:45 UTC
From: digs4ruff
Topic: 9343 Message: 9364

Walt
Just before I do this I would like to confirm that C100 is the green cap labelled .001 to the lower right of T15. There is a small electrolytic between T15 & the green cap. The reason I ask is on my IF board (the board with the filter) T15 is located in the lower right quadrant, not lower left. This is facing the component side with the filter in the upper right quadrant.
I have a number of small brown ceramic? disks labelled B102. Is this the correct replacement?
--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
>
> The transmit audio quality of the TS 520, 820, 530, and 830 can be improved.
> This will make the audio less muffled, more open sounding. It will improve
> articulation and presence.
>
> With the exception of the TS-520, these rigs have a .015 microfarad
> capacitor (sometimes labeled 153) from the collector of the mike pre amp
> transistor to ground. This can be changed to a .001 microfarad capacitor
> (102). Here is where it can be found.
>
> TS-820
> This capacitor is labeled C-100. It is located on the IF board on the lower
> left half between T-15 and Q-20.
>
> Vy 73, Walt N9WB
>

9365. Re: Corrected Audio Improvement in Kenwood 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 16:31:37 UTC
From: digs4ruff
Topic: 9343 Message: 9365

Walt
So wrapped up in making progress I forgot my manners and do
apologize. I am not demanding an answer, only asking advice.
thanks very much
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
>
> Walt
> Just before I do this I would like to confirm that C100 is the
green
> cap labelled .001 to the lower right of T15. There is a small
> electrolytic between T15 & the green cap. The reason I ask is on
my
> IF board (the board with the filter) T15 is located in the lower
> right quadrant, not lower left. This is facing the component side
> with the filter in the upper right quadrant.
> I have a number of small brown ceramic? disks labelled B102. Is
this
> the correct replacement?
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> >
> > The transmit audio quality of the TS 520, 820, 530, and 830 can
be
> improved.
> > This will make the audio less muffled, more open sounding. It
will
> improve
> > articulation and presence.
> >
> > With the exception of the TS-520, these rigs have a .015
microfarad
> > capacitor (sometimes labeled 153) from the collector of the mike
> pre amp
> > transistor to ground. This can be changed to a .001 microfarad
> capacitor
> > (102). Here is where it can be found.
> >
> > TS-820
> > This capacitor is labeled C-100. It is located on the IF board
on

> the lower
> > left half between T-15 and Q-20.
> >
> > Vy 73, Walt N9WB
> >
>

9366. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 16:42:34 UTC
From: Gordon
Topic: 9334 Message: 9366

Dave,
Are you using an ORIGINAL VFO cable ? The reason I ask is, the
original cable has 1 wire inside it that is shielded.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
<heather.dave@...> wrote:
>
> Hello Walt
> I tried removing the external speaker (I have an SP-230 with internal
> DSP unit fitted) but this had no effect. However, thinking along
> similar lines to your suggestion, I tried removing the external VFO
> 230 connection, and this did seem to make a difference. With VFO
> cable removed the audio sounded much better and with no distortion.
> Also the flashing display I had before on max power transmit
> disappeared. So, the external VFO may well be part or all of the
> problem.
>
> Do you have any suggestions why this is happening and how I can cure
> the problem? Could it be simply a bad connection or perhaps a
> problem with internal shielding? Does this explain why it happens
> only on 21MHz and above?
>
> This is big progress on a problem I've been trying to solve for about
> 9 months. Many thanks for setting me off in the right direction.
>
> 73
> Dave, G3ZQH
>
>
>

9367. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 16:44:07 UTC
From: Gordon
Topic: 9334 Message: 9367

I had this problem on an 830 that had a really dirty spot on the AF control pot.
Try some De-Oxit in the pot and work it back and forth. Then fire the rig back up and see how she works.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Jeff May" <W0XV@...> wrote:
>
> Hello..I have all the Kenwood hybrid models which I really enjoy. I have followed advice from this group and done well with applying fixes when neceesary to my rigs. I just encountered a problem with my TS 820S that I need help with. When I turn the AF gain up to get to a comfortable volume the AF output seems to go into oscillation...gives a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, September 10, 2006 5:00 AM
> Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
>
> Dave:
>
> Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: daveb0910
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 08, 2006 2:44 PM
> Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
> Hello
>
> I hope someone can give advice on a long-standing problem with my TS-
> 830.
>
> The problem is audio distortion only on 21, 24 and 28MHz. It sounds
> like RF feedback, but also occurs when I connect a dummy load so I

> guess isn't due to RF feedback from the antenna. The other symptom I
> have is low SSB power output on 24/28 MHz but I can still get 80-100W
> on CW on these bands. I seem to have to turn the mic gain up much
> higher on 24/28 and have difficulty in getting any ALC response. If
> I turn the mic gain down (no ALC reading, about 5-10W SSB peak output
> on my power meter) the audio distortion disappears and all seems
> well. So it seems to be related to either to power output or to the
> level of audio drive.
>
> I have tried tweaking the RF coils on 21-28MHz, but no improvement
> was seen. Also, because I originally suspected that the problem was
> caused RF feedback from my antenna, I have tried all the grounding,
> ferrite filters on connecting cables etc, but this made no difference
> either. Over the last year I have also changed the 12BY6A driver
> tube.
>
> I'm using an unmodified MC-50 mic (also have another MC-50 with a
> Heil HC-5 element, but this gives the same problem).
>
> I've reached as far as I can go and would welcome any help or
> suggestions about what is causing this problem.
>
> 73, Dave
> G3ZQH, Nottingham, England
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9368. Re: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 17:34:05 UTC
From: Jeff May
Topic: 9334 Message: 9368

Tried the De-oxit..no cigar..hoped that it would be that easy but no effect...this is a very clean rig and all controls seem free of bad spots...Dennis suggested a bad bypass cap...can you identify a part # Dennis? 73...Jeff...W0XV
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 11:44 AM
Subject: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

I had this problem on an 830 that had a really dirty spot on the AF control pot.
Try some De-Oxit in the pot and work it back and forth. Then fire the rig back up and see how she works.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Jeff May" <W0XV@...> wrote:
>
> Hello..I have all the Kenwood hybrid models which I really enjoy. I have followed advice from this group and done well with applying fixes when neceesary to my rigs. I just encountered a problem with my TS 820S that I need help with. When I turn the AF gain up to get to a comfortable volume the AF output seems to go into oscillation...gives a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, September 10, 2006 5:00 AM
> Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
>
> Dave:
>
> Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: daveb0910
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 08, 2006 2:44 PM

> Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
> Hello
>
> I hope someone can give advice on a long-standing problem with my TS-
> 830.
>
> The problem is audio distortion only on 21, 24 and 28MHz. It sounds
> like RF feedback, but also occurs when I connect a dummy load so I
> guess isn't due to RF feedback from the antenna. The other symptom I
> have is low SSB power output on 24/28 MHz but I can still get 80-100W
> on CW on these bands. I seem to have to turn the mic gain up much
> higher on 24/28 and have difficulty in getting any ALC response. If
> I turn the mic gain down (no ALC reading, about 5-10W SSB peak output
> on my power meter) the audio distortion disappears and all seems
> well. So it seems to be related to either to power output or to the
> level of audio drive.
>
> I have tried tweaking the RF coils on 21-28MHz, but no improvement
> was seen. Also, because I originally suspected that the problem was
> caused RF feedback from my antenna, I have tried all the grounding,
> ferrite filters on connecting cables etc, but this made no difference
> either. Over the last year I have also changed the 12BY6A driver
> tube.
>
> I'm using an unmodified MC-50 mic (also have another MC-50 with a
> Heil HC-5 element, but this gives the same problem).
>
> I've reached as far as I can go and would welcome any help or
> suggestions about what is causing this problem.
>
> 73, Dave
> G3ZQH, Nottingham, England
>
> --
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9369. New member question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 18:19:44 UTC
From: Jeff Brown
Topic: 9369 Message: 9369

How come everytime I try to access the files, messages, etc. I get a yellow screen with a blank white square in the middle? The window never finishes loading. My email says I was accepted for membership. Thanks.

Jeff

[Non-text portions of this message have been removed]

9370. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 18:25:57 UTC
From: Bill Scurlock
Topic: 9343 Message: 9370

Max,

I am not familiar with any of the Behringer or W2IHY audio treatment equipment. But some people who use that kind of equipment have told me that you can take a $3 Radio Shack mic element, run it thru audio equalizer type equipment, and it will sound as good as a $500 plus mic. I heard one station demonstrate that by switching his mics, and I could not tell the difference on my stock transceiver - a wide bandpass modified radio might have - I don't know.

I hope nobody starts a "thread" on this comment because there are other reflectors for that purpose. I'm just trying to respond to your message and let you know that you have reached the limit of my knowledge of SSB audio when you insert anything between the mic and the radio! Hi-Hi!

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 10:06 AM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hi Max.
>
> Today I was using a Shure 55SW because I thought it had the flattest
response and I wanted to know what the radio's audio bandpass was
doing. I also use the MC-50 and Shure 444 on my Kenwood radios.

Currently Bill I am using a Behringer XM8500 into a W2IHY 8 band EQ.
Sounds nice but I don't get the same drive as I do with th MC-50. But
the MC-50 sounds flatter. I haven't hooked the MC-50 through the EQ
which I may do at some point just to hear what it sounds like.

Max

[Non-text portions of this message have been removed]

9371. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 18:37:20 UTC
From: Dave and Loraine
Topic: 9343 Message: 9371

Hi Max,
My MC-50 used to sound muddy but I used the loo roll mod from Walt and now it sounds great.
(although it doesn't stop me talking cr** ;-)
73 Dave F4EYK

9372. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 18:38:02 UTC
From: daveb0910
Topic: 9334 Message: 9372

Gordon
The cable I have came with the VFO when I bought it used- it
has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
original. I will check inside for shielded wire. Do you know if the
original cables or equivalent are available?
Thanks
Dave

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Dave,
> Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> original cable has 1 wire inside it that is shielded.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> <heather.dave@> wrote:
> >
> > Hello Walt
> > I tried removing the external speaker (I have an SP-230 with
internal
> > DSP unit fitted) but this had no effect. However, thinking along
> > similar lines to your suggestion, I tried removing the external
VFO
> > 230 connection, and this did seem to make a difference. With VFO
> > cable removed the audio sounded much better and with no
distortion.
> > Also the flashing display I had before on max power transmit
> > disappeared. So, the external VFO may well be part or all of the
> > problem.
> >
> > Do you have any suggestions why this is happening and how I can
cure
> > the problem? Could it be simply a bad connection or perhaps a
> > problem with internal shielding? Does this explain why it
happens
> > only on 21MHz and above?
> >
> > This is big progress on a problem I've been trying to solve for
about
> > 9 months. Many thanks for setting me off in the right direction.
> >
> > 73
> > Dave, G3ZQH

> >
> >
> >
>

9373. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 19:29:41 UTC
From: Gordon
Topic: 9334 Message: 9373

Dave, Pin 1 of the cable is Shielded by pin 7 , according to the VFO
Schematic.
My VFO original Cable is Gray in Color and about 2 feet long.
I don't think the original cable is available any longer.
My cable has NO writing on it but does have a trademark or something
that is a circle with three ellipticals inside of it on each connector.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
<heather.dave@...> wrote:
>
> Gordon
> The cable I have came with the VFO when I bought it used- it
> has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
> original. I will check inside for shielded wire. Do you know if the
> original cables or equivalent are available?
> Thanks
> Dave
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Dave,
> > Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> > original cable has 1 wire inside it that is shielded.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> > <heather.dave@> wrote:
> > >
> > > Hello Walt
> > > I tried removing the external speaker (I have an SP-230 with
> internal
> > > DSP unit fitted) but this had no effect. However, thinking along
> > > similar lines to your suggestion, I tried removing the external
> VFO
> > > 230 connection, and this did seem to make a difference. With VFO
> > > cable removed the audio sounded much better and with no
> distortion.
> > > Also the flashing display I had before on max power transmit
> > > disappeared. So, the external VFO may well be part or all of the
> > > problem.
> > >
> > > Do you have any suggestions why this is happening and how I can
> cure

> > > the problem? Could it be simply a bad connection or perhaps a
> > > problem with internal shielding? Does this explain why it
> happens
> > > only on 21MHz and above?
> > >
> > > This is big progress on a problem I've been trying to solve for
> about
> > > 9 months. Many thanks for setting me off in the right direction.
> > >
> > > 73
> > > Dave, G3ZQH
> > >
> > >
> > >
> >
>

9374. Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 20:03:31 UTC
From: max_ve3tmt
Topic: 9343 Message: 9374

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:

> I hope nobody starts a "thread" on this comment because there are
other reflectors for that purpose. I'm just trying to respond to your
message and let you know that you have reached the limit of my
knowledge of SSB audio when you insert anything between the mic and
the radio!

I agree Bill, and I am at the limit of my experimentation with the
audio and the 830. It sounds fine to me. I worked a station on PSK
this morning on 20m and got an IMD report of -28 which is pretty
clean, so obviously the 830's audio is up to par.

Max VE3TMT

9375. 6 meter transceiver on E-bay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 19:33:10 UTC
From: Allen Cope
Topic: 9188 Message: 9375

There is a TS-520 and 6 meter transceiver on E-bay expiring today.
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=110029610201

I understand that many have issues with E-bay, just thought I would let everyone know about it.

Allen

KE5JBA

[Non-text portions of this message have been removed]

9376. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 20:26:20 UTC
From: daveb0910
Topic: 9334 Message: 9376

Gordon,
Thanks for info- my cable fits your decription, so maybe it is
original after all. There's also a good description of the remote
VFO cable wiring on this group's web page (thanks Bill, K5GCW).

I opened the connector on the cable ends and immediately saw an open
circuit on pin 7- the shield-on one side. Problem solved?-
unfotunately not quite that easy because even after re-soldering, the
distortion and feedback problem was still there.

However, I think I'm close to solving the problem now, so will do a
careful check of all the cable connections.

I'll let you know of any further progress.
73, Dave

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Dave, Pin 1 of the cable is Shielded by pin 7 , according to the
VFO
> Schematic.
> My VFO original Cable is Gray in Color and about 2 feet long.
> I don't think the original cable is available any longer.
> My cable has NO writing on it but does have a trademark or something
> that is a circle with three ellipticals inside of it on each
connector.
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> <heather.dave@> wrote:
> >
> > Gordon
> > The cable I have came with the VFO when I bought it used- it
> > has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
> > original. I will check inside for shielded wire. Do you know if
the
> > original cables or equivalent are available?
> > Thanks
> > Dave
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > >
> > > Dave,
> > > Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> > > original cable has 1 wire inside it that is shielded.

> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> > > <heather.dave@> wrote:
> > > >
> > > > Hello Walt
> > > > I tried removing the external speaker (I have an SP-230 with
> > internal
> > > > DSP unit fitted) but this had no effect. However, thinking
along
> > > > similar lines to your suggestion, I tried removing the
external
> > VFO
> > > > 230 connection, and this did seem to make a difference. With
VFO
> > > > cable removed the audio sounded much better and with no
> > distortion.
> > > > Also the flashing display I had before on max power transmit
> > > > disappeared. So, the external VFO may well be part or all of
the
> > > > problem.
> > > >
> > > > Do you have any suggestions why this is happening and how I
can
> > cure
> > > > the problem? Could it be simply a bad connection or perhaps
a
> > > > problem with internal shielding? Does this explain why it
> > happens
> > > > only on 21MHz and above?
> > > >
> > > > This is big progress on a problem I've been trying to solve
for
> > about
> > > > 9 months. Many thanks for setting me off in the right
direction.
> > > >
> > > > 73
> > > > Dave, G3ZQH
> > > >
> > > >
> > > >
> > >
> > >
>

9377. Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-10 21:57:31 UTC
From: n9wb
Topic: 9334 Message: 9377

First thing to check is the 9v regulator on the AF/AVR board. VR 4 the 9v control pot often becomes intermittent. Also check for bad connections on this board.
Vy 73, Walt N9WB

----- Original Message -----
From: Jeff May
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 9:46 AM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello..I have all the Kenwood hybrid models which I really enjoy. I have followed advice from this group and done well with applying fixes when neceesary to my rigs. I just encountered a problem with my TS 820S that I need help with. When I turn the AF gain up to get to a comfortable volume the AF output seems to go into oscillation...gives a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 5:00 AM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Dave:

Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:44 PM
Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If

I turn the mic gain down (no ALC reading, about 5-10W SSB peak output on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9378. Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 00:08:26 UTC
From: John Harp
Topic: 9334 Message: 9378

IS the ground in good shape? One time not to long ago I had the same problem removed my Amp cable then my remote vfo cable then my speaker cable. It settled down when I cleaned and tightened my ground a little better. I even found the nut loose on the back where it attaches to the 830.

After that I went on a clean up of the 830 to alleviate the last of the whine in the feedback. I popped all my connectors one at a time sprayed and moved them on and off to clean the contacts. I also cleaned all the swiches and the wafer band switch I could get at. I loosened out all grounding screws cleaned and run in and out.make sure they are good and snug, but not so tight they strip. make sure of your mike ground too.

It was explained to me that sometimes when these radios set for a couple of years in an area where the humidity may be higher or conaminents are in the air they settle in the places and cause problems.

This is what I was told to do and it worked for me. lectra clean by CRC is what I used since it doesn't leave a residue. But watch it around plastics like your relay cover or paint on the case.

n9wb <n9wb@...> wrote:
Dave:

Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:44 PM
Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If I turn the mic gain down (no ALC reading, about 5-10W SSB peak output

on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9379. Re: [TS-520_820_530_830] New member question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 00:32:36 UTC
From: John Harp
Topic: 9369 Message: 9379

Hi Jeff and welcome to the group. I ran into this not to long ago when I was talking with Reuben about his pictures and Iwas trying to look at the archives. I found the problem disappeared when I turned off my Norton Internet Security. I saw the effect for but a brief moment and turned the NIS back on. Mine showed up right after the Windows defender appeared on the tool bar. It might be the same problem for you. Try it and see what it does.

Jeff Brown <KC9ANB@...> wrote: How come everytime I try to access the files, messages, etc. I get a yellow screen with a blank white square in the middle? The window never finishes loading. My email says I was accepted for membership. Thanks.

Jeff

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9380. Re: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 00:39:59 UTC
From: John Harp
Topic: 9334 Message: 9380

Watch for them on E-Bay. They appear often enough. Set your account up to monitor for that and report back to you when it finds it. I've been doing that for a KB-1 knob.

Gordon <n6wk@...> wrote: Dave, Pin 1 of the cable is Shielded by pin 7 , according to the VFO
Schematic.
My VFO original Cable is Gray in Color and about 2 feet long.
I don't think the original cable is available any longer.
My cable has NO writing on it but does have a trademark or something
that is a circle with three ellipticals inside of it on each connector.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
<heather.dave@...> wrote:
>
> Gordon
> The cable I have came with the VFO when I bought it used- it
> has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
> original. I will check inside for shielded wire. Do you know if the
> original cables or equivalent are available?
> Thanks
> Dave
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Dave,
> > Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> > original cable has 1 wire inside it that is shielded.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> > <heather.dave@> wrote:
> > >
> > > Hello Walt
> > > I tried removing the external speaker (I have an SP-230 with
> internal
> > > DSP unit fitted) but this had no effect. However, thinking along
> > > similar lines to your suggestion, I tried removing the external
> VFO
> > > 230 connection, and this did seem to make a difference. With VFO
> > > cable removed the audio sounded much better and with no
> distortion.
> > > Also the flashing display I had before on max power transmit
> > > disappeared. So, the external VFO may well be part or all of the

> > > problem.
> > >
> > > Do you have any suggestions why this is happening and how I can
> cure
> > > the problem? Could it be simply a bad connection or perhaps a
> > > problem with internal shielding? Does this explain why it
> happens
> > > only on 21MHz and above?
> > >
> > > This is big progress on a problem I've been trying to solve for
> about
> > > 9 months. Many thanks for setting me off in the right direction.
> > >
> > > 73
> > > Dave, G3ZQH
> > >
> > >
> > >
> >
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9381. Re: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 00:43:16 UTC
From: John Harp
Topic: 9334 Message: 9381

clean the connector and make sure of it's ground.

daveb0910 <heather.dave@...> wrote: Gordon,
Thanks for info- my cable fits your decription, so maybe it is
original after all. There's also a good description of the remote
VFO cable wiring on this group's web page (thanks Bill, K5GCW).

I opened the connector on the cable ends and immediately saw an open
circuit on pin 7- the shield-on one side. Problem solved?-
unfotunately not quite that easy because even after re-soldering, the
distortion and feedback problem was still there.

However, I think I'm close to solving the problem now, so will do a
careful check of all the cable connections.

I'll let you know of any further progress.
73, Dave

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Dave, Pin 1 of the cable is Shielded by pin 7 , according to the
VFO
> Schematic.
> My VFO original Cable is Gray in Color and about 2 feet long.
> I don't think the original cable is available any longer.
> My cable has NO writing on it but does have a trademark or something
> that is a circle with three ellipticals inside of it on each
connector.
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> <heather.dave@> wrote:
> >
> > Gordon
> > The cable I have came with the VFO when I bought it used- it
> > has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
> > original. I will check inside for shielded wire. Do you know if
the
> > original cables or equivalent are available?
> > Thanks
> > Dave
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > >
> > > Dave,

> > > Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> > > original cable has 1 wire inside it that is shielded.
> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> > > <heather.dave@> wrote:
> > > >
> > > > Hello Walt
> > > > I tried removing the external speaker (I have an SP-230 with
> > internal
> > > > DSP unit fitted) but this had no effect. However, thinking
along
> > > > similar lines to your suggestion, I tried removing the
external
> > VFO
> > > > 230 connection, and this did seem to make a difference. With
VFO
> > > > cable removed the audio sounded much better and with no
> > distortion.
> > > > Also the flashing display I had before on max power transmit
> > > > disappeared. So, the external VFO may well be part or all of
the
> > > > problem.
> > > >
> > > > Do you have any suggestions why this is happening and how I
can
> > cure
> > > > the problem? Could it be simply a bad connection or perhaps
a
> > > > problem with internal shielding? Does this explain why it
> > happens
> > > > only on 21MHz and above?
> > > >
> > > > This is big progress on a problem I've been trying to solve
for
> > about
> > > > 9 months. Many thanks for setting me off in the right
direction.
> > > >
> > > > 73
> > > > Dave, G3ZQH
> > > >
> > > >
> > > >
> > >
> > >
>

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9382. Re: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 08:54:05 UTC
From: n9wb
Topic: 9239 Message: 9382

Barry:
On the filter, it is a matter of opinion. In my personal opinion the 2.4 kHz filter will sound much better than the INRAD 2.4 but the INRAD 2.8 will be even better. However if you work a lot of contests under very crowded band conditions. The INRAD 2.4 will be more selective but to me sounds like I have cotton in my ears.

Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 10:59 AM
Subject: [TS-520_820_530_830] Re: TS-820S no transmit on 10m

Gordon
Finally got a few minutes this morning to follow up on your advice. Opened the control unit and cleaned the connectors inside it. Worked like a charm. I have been down in the dumps this week with this problem with the 820s and yesterday my Clear Channel AR-3500 10/11/12M rig went south as well. I figured out how to do a CPU reset on it and it is happy again. (Anyone have an old PA for this rig?) The 820s is happy again. Barry is happy again. Thanks ever so much.

By the way while I was inside the radio I took note that it has an Inrad 94 21Khz filter. Is this a good choice? I have a very deep voice (40 yrs of cigarettes and single malt scotch) and am using an Electrovoice 638 mic.
best regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> This started with a rolling digital display. Opened all connectors
> and used de oxit. Replaced connectors (in wrong places) and display
> now stable but no ALC or Bias. WIth Gordon's help got the connectors
> back on the correct pins and back to original problem. Next weekend
> will remove control unit for a better look.
> regards
> Barry
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9383. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 09:11:54 UTC
From: n9wb
Topic: 9343 Message: 9383

I understand, no problem.
Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 11:31 AM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood 820s

Walt
So wrapped up in making progress I forgot my manners and do
apologize. I am not demanding an answer, only asking advice.
thanks very much
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
>
> Walt
> Just before I do this I would like to confirm that C100 is the
green
> cap labelled .001 to the lower right of T15. There is a small
> electrolytic between T15 & the green cap. The reason I ask is on
my
> IF board (the board with the filter) T15 is located in the lower
> right quadrant, not lower left. This is facing the component side
> with the filter in the upper right quadrant.
> I have a number of small brown ceramic? disks labelled B102. Is
this
> the correct replacement?
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> >
> > The transmit audio quality of the TS 520, 820, 530, and 830 can
be
> improved.
> > This will make the audio less muffled, more open sounding. It
will
> improve
> > articulation and presence.
> >
> > With the exception of the TS-520, these rigs have a .015

microfarad
> > capacitor (sometimes labeled 153) from the collector of the mike
> pre amp
> > transistor to ground. This can be changed to a .001 microfarad
> capacitor
> > (102). Here is where it can be found.
> >
> > TS-820
> > This capacitor is labeled C-100. It is located on the IF board
on
> the lower
> > left half between T-15 and Q-20.
> >
> > Vy 73, Walt N9WB
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9384. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 09:11:01 UTC
From: n9wb
Topic: 9343 Message: 9384

Perhaps you are looking at the wrong board.

The IF board is the big board that is mounted vertically instead of flat on the left side with the rig facing you. Looking at it from the component side, the filters will be in the upper right. C-100 is a .015 or (105) and is located on the lower left quadrant T-15 is the only can located in the lower left quadrant. Near the lower left corner of T-15 is a round 4.7 uf capacitor that is C-101. Below it is C-100 the capacitor that you are looking for.

For reference, just below that is a 100K resistor (Brown Black Yellow) and to the left of this resistor is Q 20.

Again, the capacitor is a .015 and is to be replaced with a .001. It is just below the round C-101 The new capacitor with a value of .001 will probably be physically much smaller than the original .015.

Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 11:25 AM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood 820s

Walt
Just before I do this I would like to confirm that C100 is the green
cap labelled .001 to the lower right of T15. There is a small
electrolytic between T15 & the green cap. The reason I ask is on my
IF board (the board with the filter) T15 is located in the lower
right quadrant, not lower left. This is facing the component side
with the filter in the upper right quadrant.
I have a number of small brown ceramic? disks labelled B102. Is this
the correct replacement?
--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
>
> The transmit audio quality of the TS 520, 820, 530, and 830 can be
improved.
> This will make the audio less muffled, more open sounding. It will
improve
> articulation and presence.
>
> With the exception of the TS-520, these rigs have a .015 microfarad
> capacitor (sometimes labeled 153) from the collector of the mike
pre amp
> transistor to ground. This can be changed to a .001 microfarad

capacitor
> (102). Here is where it can be found.
>
> TS-820
> This capacitor is labeled C-100. It is located on the IF board on
the lower
> left half between T-15 and Q-20.
>
> Vy 73, Walt N9WB
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9385. Re: [TS-520_820_530_830] New member question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 09:15:30 UTC
From: n9wb
Topic: 9369 Message: 9385

You are a member or I would not be seeing this post.

Vy 73, Walt N9WB
----- Original Message -----
From: Jeff Brown
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 1:19 PM
Subject: [TS-520_820_530_830] New member question

How come everytime I try to access the files, messages, etc. I get a yellow screen with a blank white square in the middle? The window never finishes loading. My email says I was accepted for membership. Thanks.

Jeff

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9386. Re: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 09:28:22 UTC
From: n9wb
Topic: 9334 Message: 9386

Gordon and Others:

This is a good point. I have noted some people are making their own cables and may not be using a wire with one shielded lead. If the correct wire is hard to find the thing to do is to use a piece of coax, RG 58 with a stranded center or miniature coax such as UG-174. Connect the shield to pin one and the center to pin 2 at each end. Then use a 6 wire unshielded cable for pins 3 through 9. It would be a pretty good idea to have both wires close to the same length.

I have noted that some cell phone antennas have miniature coax. This may be a source for miniature coax. You may have to be creative and run a small wire out from pins 1 and 2 in the plug and then attach to the shield and in the case of RG 58, the center.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 1:38 PM
Subject: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Gordon
The cable I have came with the VFO when I bought it used- it
has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
original. I will check inside for shielded wire. Do you know if the
original cables or equivalent are available?
Thanks
Dave

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Dave,
> Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> original cable has 1 wire inside it that is shielded.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "daveb0910"
> <heather.dave@> wrote:
> >
> > Hello Walt
> > I tried removing the external speaker (I have an SP-230 with
internal
> > DSP unit fitted) but this had no effect. However, thinking along

> > similar lines to your suggestion, I tried removing the external
VFO
> > 230 connection, and this did seem to make a difference. With VFO
> > cable removed the audio sounded much better and with no
distortion.
> > Also the flashing display I had before on max power transmit
> > disappeared. So, the external VFO may well be part or all of the
> > problem.
> >
> > Do you have any suggestions why this is happening and how I can
cure
> > the problem? Could it be simply a bad connection or perhaps a
> > problem with internal shielding? Does this explain why it
happens
> > only on 21MHz and above?
> >
> > This is big progress on a problem I've been trying to solve for
about
> > 9 months. Many thanks for setting me off in the right direction.
> >
> > 73
> > Dave, G3ZQH
> >

9388. Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 09:44:46 UTC
From: Jeff May
Topic: 9334 Message: 9388

Thanks Walt...well I simply pulled the 3 connectors and sprayed with de-oxit and that solved the problem! This rig is so clean inside and out and does not show moisture contamination, and the contact pins looked clean...but...spraying solved the problem...thanks to you and others who responded! 73....Jeff....W0XV
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 4:57 PM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

First thing to check is the 9v regulator on the AF/AVR board. VR 4 the 9v control pot often becomes intermittent. Also check for bad connections on this board.
Vy 73, Walt N9WB

----- Original Message -----
From: Jeff May
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 9:46 AM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello..I have all the Kenwood hybrid models which I really enjoy. I have followed advice from this group and done well with applying fixes when neceesary to my rigs. I just encountered a problem with my TS 820S that I need help with. When I turn the AF gain up to get to a comfortable volume the AF output seems to go into oscillation...gives a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 5:00 AM
Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Dave:

Once we ran into a situation where this did this only if the external speaker was plugged in. Try transmitting without anything plugged into the ext. speaker or phone patch in or out. As I remember, this was with a 830. If removing the ext. speaker solves the problem, get back with us and we can come up with a fix so you can use your external speaker.

Vy 73, Walt N9WB

----- Original Message -----
From: daveb0910
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 08, 2006 2:44 PM
Subject: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz

Hello

I hope someone can give advice on a long-standing problem with my TS-830.

The problem is audio distortion only on 21, 24 and 28MHz. It sounds like RF feedback, but also occurs when I connect a dummy load so I guess isn't due to RF feedback from the antenna. The other symptom I have is low SSB power output on 24/28 MHz but I can still get 80-100W on CW on these bands. I seem to have to turn the mic gain up much higher on 24/28 and have difficulty in getting any ALC response. If I turn the mic gain down (no ALC reading, about 5-10W SSB peak output on my power meter) the audio distortion disappears and all seems well. So it seems to be related to either to power output or to the level of audio drive.

I have tried tweaking the RF coils on 21-28MHz, but no improvement was seen. Also, because I originally suspected that the problem was caused RF feedback from my antenna, I have tried all the grounding, ferrite filters on connecting cables etc, but this made no difference either. Over the last year I have also changed the 12BY6A driver tube.

I'm using an unmodified MC-50 mic (also have another MC-50 with a Heil HC-5 element, but this gives the same problem).

I've reached as far as I can go and would welcome any help or suggestions about what is causing this problem.

73, Dave
G3ZQH, Nottingham, England

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9389. Installing two SSB filters??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 11:02:13 UTC
From: max_ve3tmt
Topic: 9389 Message: 9389

Just sitting here having my morning tea, wondering what would be needed to allow use of a wide and narrow two SSB filter in the 830. I currently have the 3.0 filter in but still have the 2.4 and thought maybe some kind of relay switching could alternate between the two.

Any ideas?

Max VE3TMT

9390. VFO 820 cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 12:08:36 UTC
From: n9wb
Topic: 9390 Message: 9390

VFO 820 cable.
Actually I was wrong in my last post.

Pin 1 is the shielded wire center.
Pin 2 is the shield surrounding the wire to pin 1 .
Pin 3 is the ground for the relay.
Pin 4 is 12.6 VAC to run the pilot light.
Pin 5 energizes the relay when the EXT. VFO is in operation.
Pin 6 is the DC power source for the VFO.
Pin 7 is not used.
Pin 8 RIT out.
Pin 9 RIT DC source.

With the exception of pins 1 and 2, non-shielded wires can be used.
On pin 1 the center conductor of a shielded wire must be used.
On pin 2, the shield surrounding the wire to pin 1 is connected.

Both ends wire identically.
Pin 1 center of shielded wire to pin 1.
Pin 2 shield to pin 2.
Pin 3 to pin 3
Pin 4 to pin 4
Pin 5 to pin 5
Pin 6 to pin 6
Pin 8 to pin 8
Pin 9 to pin 9.

Pin 7 is not used and may or may not have a connection to pin 7 of the other end.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9391. VFO 820 and VFOs 230 and 240 cables.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 13:10:04 UTC
From: n9wb
Topic: 9391 Message: 9391

Ladies and Gentlemen:

Do not feel bad if I have managed to confuse you. I have managed to confuse myself.
Gordon's post was correct regarding the cable for a VFOs 230 and 240.
The VFO 820 and the VFO's 230 and 240 use different cable wiring and different ends. They both require a shielded cable for the RF output of the VFO.

I have placed the correct information for the cable for the VFO 820 in the files section of this group.
Bill K5GCW has placed the correct information for the cable for the VFOs 230 and 240 In the files section of this group.

Here is a summary of details of these two cables:

VFO 820 cable.

Pin 1 is the shielded wire center.
Pin 2 is the shield surrounding the wire to pin 1 .
Pin 3 is the ground for the relay.
Pin 4 is 12.6 VAC to run the pilot light.
Pin 5 energizes the relay when the EXT. VFO is in operation.
Pin 6 is the DC power source for the VFO.
Pin 7 is not used.
Pin 8 RIT out.
Pin 9 RIT DC source.

With the exception of pins 1 and 2, non-shielded wires can be used.
On pin 1 the center conductor of a shielded wire must be used.
On pin 2, the shield surrounding the wire to pin 1 is connected.

Both ends wire identically.
Pin 1 center of shielded wire to pin 1.
Pin 2 shield to pin 2.
Pin 3 to pin 3
Pin 4 to pin 4
Pin 5 to pin 5
Pin 6 to pin 6
Pin 8 to pin 8
Pin 9 to pin 9.

Pin 7 is not used and may or may not have a connection to pin 7 of the other end.

Vy 73, Walt N9WB

.....

VFOs 230, 240

*** Bill K5GCW is the author ***

I researched the schematics for the TS-830S, TS-530S, VFO-230, and VFO-240 regarding the cable for a remote VFO. I believe you are correct in that the pins appear to be wired direct pin-to-pin on each end of the cable. Here is what I found for the 8 pin remote VFO sockets on the radios and on the VFO's.

Pin 1 - the "hot" Remote VFO signal going to the PLL Unit connector 6 pin 1 (TS-530S). Note that the radio internal VFO signal goes to connector 5 pin 2 (PLL Unit).

Pin 2 - Identified as "RL" going to the AF Unit connector 6 pin 6 (TS-530S). Also identified as "RL" in the VFO-240 and VFO-230.

Pin 3 - Identified as "9" (volts?) going to the AF Unit connector 6 pin 7 (TS-530S). Also identified as "9" in the VFO-240 and VFO-230.

Pin 4 - Identified as "RLC" going to pin 1 of the VFO Assembly X60-1150-01 plug of the internal VFO (TS530S). There is no connection to pin 4 for VFO-240, but there is a connection in the VFO-230.

Pin 5 - Identified as "VFB" going to pin 3 of the VFO Assembly X60-1150-01 plug of the internal VFO (TS-530S). The connection to this pin 5 for the VFO-240 is identified as "MCO". In VFO-230, this signal is identified as "VFB".

Pin 6 - Identified as "0.5" going to the Counter Unit X54-1540-00 connector 1 pin 2. There is no connection to pin 6 for VFO-240, but there is a connection in VFO-230 identified as "5.00".

Pin 7 - This is a ground connection used to shield the "hot" VFO signal lead.

Pin 8 - Identified as "12" in the TS-530 and goes to several places including the Counter Unit connector 1 pin 3, and the RF Unit connector 6 pin 2. In VFO-240 this signal is identified as "14" and provides power to PL1 and PL2. There is no connection to this pin in VFO-230.

I used the interconnection/schematic diagram for the TS-530S for the above references because Kenwood drew it line-for-line , whereas the TS-830 diagram draws one line for multiple conductors where you have to follow all the "breakouts" to figure out where the conductors are going which is a little more time consuming.

It appears that you can use a 6 conductor cable if you only plan to use the VFO-240, or a 7 conductor cable if you only plan to use the VFO-230. But if you plan to use the same cable for either VFO, then you will need to use 8 conductors. The VFO-240 is made to use with either the TS-530S or TS-830S.

This was an interesting exercise. Maybe it helped you a little.

.....
.....

Bill and Gordon, Thank You

9392. Re: [TS-520_820_530_830] Installing two SSB filters??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 13:15:02 UTC
From: n9wb
Topic: 9389 Message: 9392

Max:

It doesn't require a relay. It uses the CW filter slot and a change in the switching to do this. I have not done it however. I do not think you would see any advantage from changing from the 3 to the 2.4, however, particularly if the 3.0 filter is an INRAD.

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 11, 2006 6:02 AM
Subject: [TS-520_820_530_830] Installing two SSB filters??

Just sitting here having my morning tea, wondering what would be needed to allow use of a wide and narrow two SSB filter in the 830. I currently have the 3.0 filter in but still have the 2.4 and thought maybe some kind of relay switching could alternate between the two.

Any ideas?

Max VE3TMT

9393. Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 13:48:36 UTC
From: n9wb
Topic: 9343 Message: 9393

Bill:
It would be nice if this were true, but it is not. You cannot equalize a $3.00 mike to sound like a $3,000 one.
I really would not get an audio thread going on this group. That is why Bill K0ZL started the KenwoodMics group. If you would like to join and place this post there, we can continue an interesting thread on microphones and equalization.

Vy 73, Walt N9WB

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 1:25 PM
Subject: Re: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

Max,

I am not familiar with any of the Behringer or W2IHY audio treatment equipment. But some people who use that kind of equipment have told me that you can take a $3 Radio Shack mic element, run it thru audio equalizer type equipment, and it will sound as good as a $500 plus mic. I heard one station demonstrate that by switching his mics, and I could not tell the difference on my stock transceiver - a wide bandpass modified radio might have - I don't know.

I hope nobody starts a "thread" on this comment because there are other reflectors for that purpose. I'm just trying to respond to your message and let you know that you have reached the limit of my knowledge of SSB audio when you insert anything between the mic and the radio! Hi-Hi!

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, September 10, 2006 10:06 AM
Subject: [TS-520_820_530_830] Re: Corrected Audio Improvement in Kenwood Hybrids

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hi Max.
>
> Today I was using a Shure 55SW because I thought it had the flattest
response and I wanted to know what the radio's audio bandpass was
doing. I also use the MC-50 and Shure 444 on my Kenwood radios.

Currently Bill I am using a Behringer XM8500 into a W2IHY 8 band EQ.
Sounds nice but I don't get the same drive as I do with th MC-50. But
the MC-50 sounds flatter. I haven't hooked the MC-50 through the EQ
which I may do at some point just to hear what it sounds like.

Max

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.2/442 - Release Date: 9/8/06

[Non-text portions of this message have been removed]

9394. Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 12:29:53 UTC
From: Darwin, Keith
Topic: 9394 Message: 9394

Hey all,

I did some SSB with the newly acquired 830s this weekend. It seems to work well enough but I was no able to get any comments from anyone other than "59 1282 QSL?" :-)

My 830s has a SN in the 4 million range and has both 500 Hz CW filters installed. Overall it is fairly clean. I opened it up and used DeOxit to clean many of the pots and most of the switches along with the bandswitch. I also reseated the board attachment screws. The few issues I had seen with it went away.

I did some comparison listening with my Drake 2B. I hooked both rigs up to the same antenna, tuned the same signal and listened to them through the same set of headphones. My el-cheapo behringer mixer served as the means to get the headphone output from both rigs into my one pair of headphones.

The 830s sounded every bit as good as the 2B and the 830s had a much better AGC action. When I switched the 2B to 3.6 KHz, of course, it made the 830s sound muffled and limited (frequency wise). That got me thinking about wide SSB filter for the 830s.

What's involved with changing to 2.8 KHz or 3.0 KHz SSB filters in the 830s? Is it just unsolder the existing filter and solder in a new one? How many filters are involved? I assume 2. If one changes to wider filters I assume the VBT continues to do it's job allowing one to reduce the bandwidth for contest weekends and QRM elimination? What is the source of the wider filters, INRAD?

- Keith KD1E -

[Non-text portions of this message have been removed]

9395. Re: [TS-520_820_530_830] Installing two SSB filters??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 14:27:46 UTC
From: Rick May
Topic: 9389 Message: 9395

Hi Max,

I would just keep the 3 khz. filter in there and play with the VBT if you want to tighten the passband. Walt, the filter is the YK-88S2 Kenwood filter.

73' Rick KC0HH

n9wb <n9wb@...> wrote: Max:

It doesn't require a relay. It uses the CW filter slot and a change in the switching to do this. I have not done it however. I do not think you would see any advantage from changing from the 3 to the 2.4, however, particularly if the 3.0 filter is an INRAD.

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 11, 2006 6:02 AM
Subject: [TS-520_820_530_830] Installing two SSB filters??

Just sitting here having my morning tea, wondering what would be needed to allow use of a wide and narrow two SSB filter in the 830. I currently have the 3.0 filter in but still have the 2.4 and thought maybe some kind of relay switching could alternate between the two.

Any ideas?

Max VE3TMT

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9396. Re: [TS-520_820_530_830] Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 14:43:41 UTC
From: Rick May
Topic: 9394 Message: 9396

Hi Keith,

Kenwood makes a 3.0 khz filter that is the stock 8.83 filter in the 870S...It is the YK-88S2.. The YK-88S1 is 2.7khz which is what you probably have in your 830S now. Going to a 2.8khz. is not going to give you much change.

The Kenwood YK filters are 6 pole monolithic filters. The Inrad filters are 8 pole discrete crystal filters as are the older YG Kenwood filters which are in the 820(S) The Kenwood YK filters are an exact drop in replacement for your stock filter. The Inrads are much larger and must be wired in with RG-174 type coax.

You can also replace the little Murata ceramic 455khz filter with an Inrad filter but they are also much larger and must be wired in. As an experiment, I used two 2.4khz. Kenwood filters in one of my 830S' and wired them in. A YG-88S
and a YG-455S..It has better selectivity than my Icom 765.

73' Rick KC0HH
Lamar, Colorado

"Darwin, Keith" <keith.darwin@...> wrote: Hey all,

Snip
What's involved with changing to 2.8 KHz or 3.0 KHz SSB filters in the
830s? Is it just unsolder the existing filter and solder in a new one?
How many filters are involved? I assume 2. If one changes to wider
filters I assume the VBT continues to do it's job allowing one to reduce
the bandwidth for contest weekends and QRM elimination? What is the
source of the wider filters, INRAD?

- Keith KD1E -

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9397. Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 14:55:15 UTC
From: max_ve3tmt
Topic: 9394 Message: 9397

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

> What's involved with changing to 2.8 KHz or 3.0 KHz SSB filters in the
> 830s? Is it just unsolder the existing filter and solder in a new one?
> How many filters are involved? I assume 2. If one changes to wider
> filters I assume the VBT continues to do it's job allowing one to reduce
> the bandwidth for contest weekends and QRM elimination? What is the
> source of the wider filters, INRAD?

Keith,

All you have to do is unsolder the original filter and solder the new
one in. There was one on eBay not too long ago.

Apparantly the 830's had two different filters in the 455 IF depending
on the serial number. One was 2.9 Khz wide and the newest was 3.2 Khz.
Check your filter, if it ends in 5 it is the narrower unit. The wider
filter ends in 12. Doing a sweep on my 830, it has a response of
roughly 110 hz to just over 3K. Still waiting for my serial number
from Hamalyzer to do a proper sweep. I was told by Tyler KA0KA, that
you could just jumper across the 455 filter, but I think it will
affect the speech processing. I am leaving it the way it is.

Max

9398. Re: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 15:05:53 UTC
From: Rick May
Topic: 9394 Message: 9398

Hi Max,

It is the other way around. The CFJ455K12 is the newer 2.9 khz filter starting somewhere around 3 million serial number on the 830S. Kenwood still used this filter in the 870S...I have never seen Murata publish the -6dB passband specs of the older K5 but it is > 3khz. according to people that have swept them on a Spectrum Analyzer.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

> What's involved with changing to 2.8 KHz or 3.0 KHz SSB filters in the
> 830s? Is it just unsolder the existing filter and solder in a new one?
> How many filters are involved? I assume 2. If one changes to wider
> filters I assume the VBT continues to do it's job allowing one to reduce
> the bandwidth for contest weekends and QRM elimination? What is the
> source of the wider filters, INRAD?

Keith,

All you have to do is unsolder the original filter and solder the new one in. There was one on eBay not too long ago.

Apparantly the 830's had two different filters in the 455 IF depending on the serial number. One was 2.9 Khz wide and the newest was 3.2 Khz. Check your filter, if it ends in 5 it is the narrower unit. The wider filter ends in 12. Doing a sweep on my 830, it has a response of roughly 110 hz to just over 3K. Still waiting for my serial number from Hamalyzer to do a proper sweep. I was told by Tyler KA0KA, that you could just jumper across the 455 filter, but I think it will affect the speech processing. I am leaving it the way it is.

Max

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9399. Re: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 15:12:03 UTC
From: Rick May
Topic: 9394 Message: 9399

Your VBT and notch filter also use the 455 filter. For lack of a better term you would castrate your 830S....

Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote:

SNIP

I was told by Tyler KA0KA, that
you could just jumper across the 455 filter, but I think it will
affect the speech processing. I am leaving it the way it is.

Max

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9400. Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 15:31:44 UTC
From: max_ve3tmt
Topic: 9394 Message: 9400

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Your VBT and notch filter also use the 455 filter. For lack of a
better term you would castrate your 830S....
>
> Rick KC0HH

Can't get any plainer than that Rick! So if my 455 filter is the one
ending in 5, I have the wider one??

Max VE3TMT

9401. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 17:28:31 UTC
From: Gordon
Topic: 9334 Message: 9401

Good Fix Jeff. Great Advice Walt.
Walt and I , along with many others, have found that bad/dirty
connections seem to be our worse enemy in these hybrids.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Jeff May" <W0XV@...> wrote:
>
>
> Thanks Walt...well I simply pulled the 3 connectors and sprayed with
de-oxit and that solved the problem! This rig is so clean inside and
out and does not show moisture contamination, and the contact pins
looked clean...but...spraying solved the problem...thanks to you and
others who responded! 73....Jeff....W0XV
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, September 10, 2006 4:57 PM
> Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
>
> First thing to check is the 9v regulator on the AF/AVR board. VR 4
the 9v control pot often becomes intermittent. Also check for bad
connections on this board.
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Jeff May
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, September 10, 2006 9:46 AM
> Subject: Re: [TS-520_820_530_830] TS-830 audio distortion 21-28MHz
>
> Hello..I have all the Kenwood hybrid models which I really enjoy.
I have followed advice from this group and done well with applying
fixes when neceesary to my rigs. I just encountered a problem with my
TS 820S that I need help with. When I turn the AF gain up to get to a
comfortable volume the AF output seems to go into oscillation...gives
a distorted whine like sound...any ideas? Thanks...Jeff...W0XV
> SNIP

9402. TS-820 Corrected Audio Improvement in Kenwood Hybrids

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 21:04:04 UTC
From: n9wb
Topic: 9402 Message: 9402

In the TS-820 C-100 is on the right side of the IF board. I did not have my 820 here and the image I was looking at was the foil side.
Barry was correct as to which side it was on. I will try to correct everything tomorrow morning when I get time.

I have corrected the instructions in the Files section of this site under mods, but do not have the photo posted yet.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9403. Paint color??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 20:43:00 UTC
From: max_ve3tmt
Topic: 9403 Message: 9403

Does anyone know what color the paint is on the front panel of the 830? I have some small spots on the edge I would like to touch up.

Max

9404. Re: [TS-520_820_530_830] Paint color??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 21:12:03 UTC
From: Bill Scurlock
Topic: 9403 Message: 9404

Max, go to K4EAA's website. He has some small containers of paint that he sells, and can probably answer your questions about colors.

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 11, 2006 3:43 PM
Subject: [TS-520_820_530_830] Paint color??

Does anyone know what color the paint is on the front panel of the
830? I have some small spots on the edge I would like to touch up.

Max

[Non-text portions of this message have been removed]

9405. Re: Paint color??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-11 21:12:49 UTC
From: Gordon
Topic: 9403 Message: 9405

Max,
I believe Ken, K4EAA has touch up paint that he sells on his web site
for a nominal fee.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> Does anyone know what color the paint is on the front panel of the
> 830? I have some small spots on the edge I would like to touch up.
>
> Max
>

9406. Re: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 01:06:50 UTC
From: Rick May
Topic: 9394 Message: 9406

Hi Max,

Yes, the one ending in 5 is the wider (older) one. I am not sure when Kenwood switched from the YK-88S (2.4khz.) to the YK-88S1 (2.7khz) as the standard SSB filter in the 830S but it must have been around the time they upgraded from the CFJ455K5 to the CFJ455K12 which I understand is ~3 million.

I have been looking for years for a touch-up paint for the front of the Kenwoods. I will try Ken's web site. Thanks

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote:
Can't get any plainer than that Rick! So if my 455 filter is the one
ending in 5, I have the wider one??

Max VE3TMT

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9407. Re: Paint color??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 11:06:04 UTC
From: K4MT
Topic: 9403 Message: 9407

--- In TS-520_820_530_830@yahoogroups.com,
"max_ve3tmt" <max_ve3tmt@...> wrote:
>

Max:

I just finished a restore on a 520S. I repainted the covers
and did some work on the plastic front edges.

I went to an Automotive paint supply store and brought the
rig and they computer matched the paint. They simply put
their scenner on the paint and they had a formula to mix it.

The paint color was so good that when I painted the cases
they perfectly matched my VFO-520S which still had factory
paint.

These guys are great!

> Does anyone know what color the paint is on the front
panel of the
> 830? I have some small spots on the edge I would like to
touch up.
>
> Max
>

9408. RE: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 12:06:52 UTC
From: Darwin, Keith
Topic: 9394 Message: 9408

My 830s is SN 4 million. It has an SSB filter that ends in 05. The CFJ455 filter? Gee, I didn't check that to see what it's ending is. Apparently the change over happened after 4 million.

- Keith KD1E -

-----Original Message-----
I am not sure when Kenwood switched from the YK-88S (2.4khz.) to the YK-88S1 (2.7khz) as the standard SSB filter in the 830S but it must have been around the time they upgraded from the CFJ455K5 to the CFJ455K12 which I understand is ~3 million.

9409. New member with 520SE questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 12:23:47 UTC
From: Phil
Topic: 9409 Message: 9409

Hello folks - new member here with a Kenwood TS-520SE which works great.

I would love to modify my rig for better audio. What filter does the TS-520SE use? Any possibility of being able to install a "wider" filter?

It sounds surprisingly good for 400 to 2600 Hz -6db. But, I'd like to do better! In a perfect world, I'd like to be running 100 to 3400 -6db.

Phil VY2PR
PEI Canada

PS - I also have a Drake TR-4 which I am restoring. Unfortunately, the Yahoo group for the Drake is completely overrun by spam.

9410. 830s does have muffled TX audio!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 12:19:40 UTC
From: Darwin, Keith
Topic: 9410 Message: 9410

Hey folks

I had some fun with the 830s last night. I configured my shack for recording. Fed the 830s into a dummy load and hooked my Drake 2B to the vertical antenna. I then transmitted on the 830s and received on the 2B so I could hear what the 830s really sounded like. I routed the headphone output of the 2B plus the mic feeding the 830s into a mixer and then to my PC where I recorded the session. What I heard was interesting.

The audio of the 830s does seem to be lacking in highs and I know it isn't the mic (the recording clearly shows that). Looks like I'll be doing that cap swap that has been discussed here over the last couple of days.

I tried to post the recording to my home page but the FTP server was down. Ain't Adelphia grand? Once I get the file up there I'll post the link so you can hear what I heard.

BTW, if you're interested, I already have a couple of files up there for listening fun. R4A on SSB and on CW.

http://users.adelphia.net/~keithdarwin/R4A_CW.mp3
http://users.adelphia.net/~keithdarwin/R4A_SSB.mp3

Hmm, these links are the right ones but don't seem to be working right now. Maybe soon?

- Keith KD1E -

[Non-text portions of this message have been removed]

9411. What to look for in a TS-830???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 16:11:10 UTC
From: k8tdj
Topic: 9411 Message: 9411

Hi Bill and others, Sold my 850 after working %BDXCC with it and wires.Read the archives and have already learned a lot, but they"re mostly written by owners already--what do I look for when shopping for my first TS-830S? What makes a particular unit a "good deal?"Tnx and 73, Jim K8TDJ (BTW, I'm into low band DX and cw mostly)

9412. TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 16:56:31 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9412

HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG MADE A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE CATHODE RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE COPIES.YES ON SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE RESISTORS AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO WERE THEY CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW ALL THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE AND JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU ADJUST PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN THE RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND SWITCH TO MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH SPINDLES LINING UP PERFECTLY.
ANY IDEAS
73 KEN
G3SDW
TORQUAY SOUTH DEVON
UK....

9413. Re: [TS-520_820_530_830] What to look for in a TS-830???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 17:05:03 UTC
From: Bill Scurlock
Topic: 9411 Message: 9413

Hi Jim.

Without getting in too much detail as a starting point, the first thing you need to consider is do you want to buy one that has been cleaned up, checked out, aligned and ready to go; or, buy one off eBay (or other site) where you will probably have to do some repairs yourself. A "good deal" is different in each case. The low end of buying a questionable 830 in good cosmetic condition is probably around $250-$300. Buying a fixed up (and maybe guarranteed) 830 can range from $400 to $600 depending on how you buy it. It also depends on your level of interest in working on equipment, and the test gear you have. Over time, some maintenance will be required with this older equipment.

From your comments, you probably want an optional CW filter. Chasing DX may mean that you also want a remote VFO for split operation.

I just started playing with these Kenwood hybrids about a year ago, had never owned one before, and now have the TS-820S, TS-530S, and two TS-830S transceivers. It has been a fun learning experience for me. Hopefully it will be for you also. There are many others on this reflector with lots of experience that I'm sure can give you more specific guidance

Good Luck and Good Hunting.

73, Bill, K5GCW
----- Original Message -----
From: k8tdj
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 12, 2006 11:11 AM
Subject: [TS-520_820_530_830] What to look for in a TS-830???

Hi Bill and others, Sold my 850 after working %BDXCC with it and
wires.Read the archives and have already learned a lot, but they"re
mostly written by owners already--what do I look for when shopping for
my first TS-830S? What makes a particular unit a "good deal?"Tnx and
73, Jim K8TDJ (BTW, I'm into low band DX and cw mostly)

[Non-text portions of this message have been removed]

9414. RE: [TS-520_820_530_830] What to look for in a TS-830???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 16:33:58 UTC
From: Darwin, Keith
Topic: 9411 Message: 9414

The one I sold was the one to get (I shoulda kept it).

Gold label only tells you it is not an early production unit. Most of them it seems were produced with the gold lettered name under the VFO. Serial Number is a better indication of age. 2 million is fairly old, 3 & 4 million are more recent and a bit more rare.

The one I had was 7 million & mint. Oh well.

Band switches can develop problems with the linkage which I hear is tough to fix. Better to get one that doesn't have the issues.

The optional CW filters are a minor pain to install. You have to pull many cables and pull a board to solder the filters in. Finding a rig with no filters and then adding them after can be expensive and it may take a while (quite a while) to locate both filters if you want both. It's easier to find a rig with both filters already installed.

The heavy-weight knob is similar. They're hard to find but you can find rigs with them on.

I'm curious why you sold the 850 after working 5BDXCC? Bored with the rig, just wanting a new toy? From what I've heard the 850 is just as good or better than the 830 so I suspect you're not talking about doing an upgrade.

If there is one thing that disappoints me with the 830s (and the reason I sold my other *mint* one) it's the non-QSK operation. I'm 95% CW and find the clackity racket from the relays really detracts from my fun. I find myself timing my CW with the relays and generally being distracted by the noise. The other issue is the CW offset being a bit wide. I prefer a tone of 600 Hz and the 830s is something greater than that (700? 850?).

- Keith KD1E -

-----Original Message-----

Sold my 850 after working %BDXCC with it and wires.Read the archives and have already learned a lot, but they"re mostly written by owners already--what do I look for when shopping for my first TS-830S? What makes a particular unit a "good deal?"Tnx and 73, Jim K8TDJ (BTW, I'm into low band DX and cw mostly)

9415. Re: [TS-520_820_530_830] What to look for in a TS-830???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 17:24:21 UTC
From: David Rust
Topic: 9411 Message: 9415

Bill, K5GCW
Bill, its been my experience if you get one that is not working, be as certain as you can that the owner, or someone else, hasn't tried to do any repairs. If they will be honest with you, is the problem. If it just "quit working" as they say, and hasn't been touched, its usually a lot easier than try to figure out what someone tried to fix. Oftentimes that "quit working" problem is as simple as that vfo jumper, or loose boards, etc.

An old, cold trail is hard to follow, especially when the first guy didn't know where he was headed.
Dave w0dlr

[Non-text portions of this message have been removed]

9416. RE: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 17:25:33 UTC
From: Rick May
Topic: 9394 Message: 9416

Hi Keith,

Your SSB filter ends in 05 ? Are you reading the Kenwood part number off of it? Like L71-0208-05 ? It should also say SSB Filter YK-88S(1) ...That is the 8.83mhz I.F. filter. The 05 and 12 we are talking about is the little 455khz Murata ceramic filter just above the 8.83 mhz SSB filter. Your 1st I.F. filter is probably either the YK-88S (2.4khz) or YK-88S1 (2.7khz) and the 2nd IF is the ceramic. The CFJ455K12 is a slightly narrower filter at 2.9khz. but it has a MUCH better passband and ultimate rejection than the older CFJ455K5. We are talking in the area of -60dB ultimate rejection here for the newer Murata, A good 8 pole crystal filter will have over -90dB ultimate rejection, but in 455khz these filters are expensive. Most of the selectivity comes from the 1st I.F. filter but I have noticed an incredible improvement swapping out the ceramic one with an 8 pole crystal filter.

73' Rick KC0HH
Lamar, Colorado

"Darwin, Keith" <keith.darwin@...> wrote: My 830s is SN 4 million. It has an SSB filter that ends in 05. The
CFJ455 filter? Gee, I didn't check that to see what it's ending is.
Apparently the change over happened after 4 million.

- Keith KD1E -

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9417. RE: [TS-520_820_530_830] What to look for in a TS-830???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 17:54:34 UTC
From: Rick May
Topic: 9411 Message: 9417

Hey Keith and All,

If you want an interesting read go to Rob Sherwood's receiver testing site. He is a broadcast engineer in Denver and runs his own receiver tests in lieu of ARRL's testing in QST. You will notice the 830S (with YK-88 CW filter) has better dynamic range at 2khz spacing for CW than the likes of the Icom 7800, Pro III and Pro II ...They are sorted 'Best to Worst' in narrow spaced dynamic range.

http://www.sherweng.com/table.html

73' Rick KC0HH

"Darwin, Keith" <keith.darwin@...> wrote: -Snip-
If there is one thing that disappoints me with the 830s (and the reason I sold my other *mint* one) it's the non-QSK operation. I'm 95% CW and find the clackity racket from the relays really detracts from my fun. I find myself timing my CW with the relays and generally being distracted by the noise. The other issue is the CW offset being a bit wide. I prefer a tone of 600 Hz and the 830s is something greater than that (700? 850?).

- Keith KD1E -

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9418. 520SE Crystals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 17:53:42 UTC
From: baumbrent
Topic: 9418 Message: 9418

I need to order the 10 meter band crystals for my 520SE but I'm at the office and can't see the rig (obviously). Do the crystals have a wire lead or a plug in lead?
Thanks,
Brent K7MEI

9419. RE: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 17:47:27 UTC
From: Darwin, Keith
Topic: 9394 Message: 9419

Oh, well I guess I didn't really check the numbers correctly.

I checked the rig yesterday and recall seeing the Kenwood 8.83 MHz filter (green top, YK-88) labeled with "S" and yes, it's part number ends is -05. The smaller 455 KHz filter I didn't pay much attention to although I do recall seeing some small numbers on there ... I think I saw both 5 and 12 but obviously need to have another look.

OK, so are there performance differences between the 88S and 88S1? Was the wider S1 an option or just a later production item?

When I listen to my TX audio (via a complex recording setup) I find it is lacking in crispness. I'm assuming the cap change in the mic preamp will fix that and the difference between 2.4 KHz and 2.7 KHz won't be enough of a change to warrant the swap, especially in a 2nd / backup rig that won't spend a lot of time on SSB to begin with.

- Keith KD1E -

-----Original Message-----
Your SSB filter ends in 05 ? Are you reading the Kenwood part number off of it? Like L71-0208-05 ? It should also say SSB Filter YK-88S(1) ...That is the 8.83mhz I.F. filter. The 05 and 12 we are talking about is the little 455khz Murata ceramic filter just above the 8.83 mhz SSB filter. Your 1st I.F. filter is probably either the YK-88S (2.4khz) or YK-88S1 (2.7khz) and the 2nd IF is the ceramic. The CFJ455K12 is a slightly narrower filter at 2.9khz. but it has a MUCH better passband and ultimate rejection than the older CFJ455K5. We are talking in the area of -60dB ultimate rejection here for the newer Murata, A good 8 pole crystal filter will have over -90dB ultimate rejection, but in 455khz these filters are expensive. Most of the selectivity comes from the 1st I.F. filter but I have noticed an incredible improvement swapping out the ceramic one with an 8 pole crystal filter.

9420. RE: [TS-520_820_530_830] What to look for in a TS-830???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 18:40:50 UTC
From: Darwin, Keith
Topic: 9411 Message: 9420

Yep, I've seen that table. What a great piece of work. Just below the 830s, 1 dB worse than the 830s is my main rig, the Elecraft K2.

I'm anxious to listen to this 830s with twin CW filters during a CW contest weekend. When there are wall to wall signals and FT 1000s splattering all over the band THAT will be the time to see what she can do.

- Keith -

-----Original Message-----

Hey Keith and All,

If you want an interesting read go to Rob Sherwood's receiver testing site. He is a broadcast engineer in Denver and runs his own receiver tests in lieu of ARRL's testing in QST. You will notice the 830S (with YK-88 CW filter) has better dynamic range at 2khz spacing for CW than the likes of the Icom 7800, Pro III and Pro II ...They are sorted 'Best to Worst' in narrow spaced dynamic range.

http://www.sherweng.com/table.html

73' Rick KC0HH

9421. Re: [TS-520_820_530_830] TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 23:10:00 UTC
From: n9wb
Topic: 9412 Message: 9421

Do you get the 60 ma idle current ? Walt N9WB
----- Original Message -----
From: KEN (G3SDW)
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 12, 2006 11:56 AM
Subject: [TS-520_820_530_830] TS530SP WITH NO DIP

HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG MADE
A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE
CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE CATHODE
RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO
REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE COPIES.YES ON
SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE RESISTORS
AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO WERE THEY
CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW ALL
THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE AND
JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU ADJUST
PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN THE
RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND SWITCH TO
MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH SPINDLES
LINING UP PERFECTLY.
ANY IDEAS
73 KEN
G3SDW
TORQUAY SOUTH DEVON
UK....

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date: 9/11/06

[Non-text portions of this message have been removed]

9422. RE: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 22:19:28 UTC
From: Walter Milton
Topic: 9334 Message: 9422

Dave,

My VFO cable has the following markings: On each connector there is a
circle with three small ovals inside, on the cable is HIRAKAWA 1989, there
is some kind of trade mark in front of HIRAKAWA. I hope this helps.

Walt, KA2NJF (The Other Walt)
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Sunday, September 10, 2006 3:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz

Dave, Pin 1 of the cable is Shielded by pin 7 , according to the VFO
Schematic.
My VFO original Cable is Gray in Color and about 2 feet long.
I don't think the original cable is available any longer.
My cable has NO writing on it but does have a trademark or something
that is a circle with three ellipticals inside of it on each connector.
Gordon

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "daveb0910"
<heather.dave@...> wrote:
>
> Gordon
> The cable I have came with the VFO when I bought it used- it
> has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
> original. I will check inside for shielded wire. Do you know if the
> original cables or equivalent are available?
> Thanks
> Dave
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Dave,
> > Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> > original cable has 1 wire inside it that is shielded.
> >

> > Gordon
> >
> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "daveb0910"
> > <heather.dave@> wrote:
> > >
> > > Hello Walt
> > > I tried removing the external speaker (I have an SP-230 with
> internal
> > > DSP unit fitted) but this had no effect. However, thinking along
> > > similar lines to your suggestion, I tried removing the external
> VFO
> > > 230 connection, and this did seem to make a difference. With VFO
> > > cable removed the audio sounded much better and with no
> distortion.
> > > Also the flashing display I had before on max power transmit
> > > disappeared. So, the external VFO may well be part or all of the
> > > problem.
> > >
> > > Do you have any suggestions why this is happening and how I can
> cure
> > > the problem? Could it be simply a bad connection or perhaps a
> > > problem with internal shielding? Does this explain why it
> happens
> > > only on 21MHz and above?
> > >
> > > This is big progress on a problem I've been trying to solve for
> about
> > > 9 months. Many thanks for setting me off in the right direction.
> > >
> > > 73
> > > Dave, G3ZQH
> > >
> > >
> > >
> > >
> >
>

[Non-text portions of this message have been removed]

9423. 60 Hz Hum on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 23:06:45 UTC
From: max_ve3tmt
Topic: 9423 Message: 9423

Sorry, it is in the photos section under miscellaneous, VE3TMT

Max

9424. 60 Hz Hum on 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 23:03:09 UTC
From: max_ve3tmt
Topic: 9423 Message: 9424

I uploaded a spectrum plot I did on my 830 into the files section. As you can see, there is a definite spike at exactly 60 hz. I can also hear it in the speaker. Any suggestions on the fix?

Max VE3TMT

9425. Re: [TS-520_820_530_830] Re: Wide SSB filter for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-12 23:51:11 UTC
From: Rick May
Topic: 9394 Message: 9425

Hi Keith,

The S1 is a later production date and replaced the original S.
The capacitor swap will do more for your TX audio than swapping to the slightly wider filter.

73' Rick KC0HH

"Darwin, Keith" <keith.darwin@...> wrote: Oh, well I guess I didn't really check the numbers correctly.

I checked the rig yesterday and recall seeing the Kenwood 8.83 MHz filter (green top, YK-88) labeled with "S" and yes, it's part number ends is -05. The smaller 455 KHz filter I didn't pay much attention to although I do recall seeing some small numbers on there ... I think I saw both 5 and 12 but obviously need to have another look.

OK, so are there performance differences between the 88S and 88S1? Was the wider S1 an option or just a later production item?

When I listen to my TX audio (via a complex recording setup) I find it is lacking in crispness. I'm assuming the cap change in the mic preamp will fix that and the difference between 2.4 KHz and 2.7 KHz won't be enough of a change to warrant the swap, especially in a 2nd / backup rig that won't spend a lot of time on SSB to begin with.

- Keith KD1E -

-----Original Message-----
Your SSB filter ends in 05 ? Are you reading the Kenwood part number off of it? Like L71-0208-05 ? It should also say SSB Filter YK-88S(1) ...That is the 8.83mhz I.F. filter. The 05 and 12 we are talking about is the little 455khz Murata ceramic filter just above the 8.83 mhz SSB filter. Your 1st I.F. filter is probably either the YK-88S (2.4khz) or YK-88S1 (2.7khz) and the 2nd IF is the ceramic. The CFJ455K12 is a slightly narrower filter at 2.9khz. but it has a MUCH better passband and ultimate rejection than the older CFJ455K5. We are talking in the area of -60dB ultimate rejection here for the newer Murata, A good 8 pole crystal filter will have over -90dB ultimate rejection, but in 455khz these filters are expensive. Most of the selectivity comes from the 1st I.F. filter but I have noticed an incredible improvement swapping out the ceramic one with an 8 pole crystal filter.

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9426. TS-820S Cap Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 00:16:17 UTC
From: digs4ruff
Topic: 9426 Message: 9426

Walt
Thanks very much for your patience and assistance. With your help I was able to carry out the capacitor swap and everything is back together again. Had nice QSO with Ensenada, Mexico this afternoon so I know all is working.
best regards
Barry

9427. Sweep your audio range

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 02:44:22 UTC
From: max_ve3tmt
Topic: 9427 Message: 9427

Everyone,

Here is a link to a program called Test Tone Generator 4. You can set it up with a predefined audio sweep range and by observing the output on a audio analyzer you can see exactly the receive and transmit bandwidth of your rig. It is a free trial version. I posted the sweeps of my 830 in the photo section. As you can see I have that annoying 60 hz peak.

Max VE3TMT

Link is: http://www.tucows.com/start_dl/240287_116914_5905

9428. RE: [TS-520_820_530_830] New member with 520SE questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 02:46:03 UTC
From: Walter Milton
Topic: 9409 Message: 9428

Phil,

Try this Yahoo Group for the Drake radio DrakeRadio@yahoogroups.com. I have the Drake TR4CW/Rit.

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Phil
Sent: Tuesday, September 12, 2006 8:24 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] New member with 520SE questions

Hello folks - new member here with a Kenwood TS-520SE which works great.

I would love to modify my rig for better audio. What filter does the TS-520SE use? Any possibility of being able to install a "wider" filter?

It sounds surprisingly good for 400 to 2600 Hz -6db. But, I'd like to do better! In a perfect world, I'd like to be running 100 to 3400 -6db.

Phil VY2PR
PEI Canada

PS - I also have a Drake TR-4 which I am restoring. Unfortunately, the Yahoo group for the Drake is completely overrun by spam.

[Non-text portions of this message have been removed]

9429. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 09:29:01 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9429

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do you get the 60 ma idle current ? Walt N9WB
> ----- Original Message -----
> From: KEN (G3SDW)
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, September 12, 2006 11:56 AM
> Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> Yes Walt the bias is ok 60ma,this one is making me scratch my head
Ken
G3SDW....
>
> HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG
MADE
> A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE
> CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
CATHODE
> RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO
> REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
COPIES.YES ON
> SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
RESISTORS
> AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
WERE THEY
> CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW
ALL
> THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE
AND
> JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
ADJUST
> PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
THE
> RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
SWITCH TO
> MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
SPINDLES
> LINING UP PERFECTLY.
> ANY IDEAS
> 73 KEN
> G3SDW
> TORQUAY SOUTH DEVON
> UK....
>
>
>

>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date:
9/11/06
>
>
> [Non-text portions of this message have been removed]
>

9430. Re: [TS-520_820_530_830] 830s does have muffled TX audio!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 01:10:01 UTC
From: Peter A Markavage
Topic: 9410 Message: 9430

Did you take into consideration the audio design circuitry characteristics of the 2B receiver? Knowing how they pass the audio from the product detector through the audio chain would be helpful in determining if you're really hearing your actual audio or some massaged audio to conform to some Drake design criteria. Further, under real world conditions, your audio will never quite sound the same as it might on your local test bench setup given thousands of listeners(with their own "unique" ears), hundreds of different receivers, an almost infinite number of receiver setups (filters, DSP's, variable bandwidth, localized audio receiver tailoring, etc.), QRM, QRN, etc.

It's almost like that age old on-the-air question, "How does my audio sound?" I generally rather ask the question, "Can you hear me?" I generally can get an answer I can believe.
Pete, wa2cwa

On Tue, 12 Sep 2006 08:19:40 -0400 "Darwin, Keith"
<keith.darwin@...> writes:
> Hey folks
>
> I had some fun with the 830s last night. I configured my shack for
> recording. Fed the 830s into a dummy load and hooked my Drake 2B to
> the
> vertical antenna. I then transmitted on the 830s and received on
> the 2B
> so I could hear what the 830s really sounded like. I routed the
> headphone output of the 2B plus the mic feeding the 830s into a
> mixer
> and then to my PC where I recorded the session. What I heard was
> interesting.
>
> The audio of the 830s does seem to be lacking in highs and I know
> it
> isn't the mic (the recording clearly shows that). Looks like I'll
> be
> doing that cap swap that has been discussed here over the last
> couple of
> days.
>
> I tried to post the recording to my home page but the FTP server
> was
> down. Ain't Adelphia grand? Once I get the file up there I'll post
> the
> link so you can hear what I heard.
>

> BTW, if you're interested, I already have a couple of files up there
> for
> listening fun. R4A on SSB and on CW.
>
> http://users.adelphia.net/~keithdarwin/R4A_CW.mp3
> http://users.adelphia.net/~keithdarwin/R4A_SSB.mp3
>
> Hmm, these links are the right ones but don't seem to be working
> right
> now. Maybe soon?
>
> - Keith KD1E -

9431. Re: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 12:28:10 UTC
From: n9wb
Topic: 9412 Message: 9431

Ken:
My next question is, what is the plate voltage and current when peaked for the maximum whatever you get out ?
Check the RL-1 relay contacts.
With the power off, measure the ohms from the cathode connections to ground. The 4, 20 ohm cathode resistors that are in paralled should read 5 ohms. If they read a lower ohms such as a short, there is a shorted capacitor in the cathode circuit.
Does it have problems on all bands?

Is this being checked on a dummy load? Are you sure the coax jumpers are good? Is the receive OK ?

Vy 73, Walt N9WB

----- Original Message -----
From: KEN (G3SDW)
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 4:29 AM
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do you get the 60 ma idle current ? Walt N9WB
> ----- Original Message -----
> From: KEN (G3SDW)
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, September 12, 2006 11:56 AM
> Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> Yes Walt the bias is ok 60ma,this one is making me scratch my head
Ken
G3SDW....
>
> HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG
MADE
> A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE
> CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
CATHODE
> RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO
> REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
COPIES.YES ON
> SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
RESISTORS
> AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
WERE THEY
> CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW
ALL

> THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE
AND
> JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
ADJUST
> PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
THE
> RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
SWITCH TO
> MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
SPINDLES
> LINING UP PERFECTLY.
> ANY IDEAS
> 73 KEN
> G3SDW
> TORQUAY SOUTH DEVON
> UK....
>
>
>
>
>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date:
9/11/06
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date: 9/11/06

[Non-text portions of this message have been removed]

9432. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 11:58:37 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9432

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>Thanks for the reply Walt.Right1.The plate voltage is 800v on tx
2.Plate current is 250ma with just a squirt of rf output.3.Cathode
resistance is 4.99 ohms.4.Yes the problem applies to all
bands.5.Tested on dummy load and antenna.6.Checked coax fly leads
and replaced them.7.Relay contacts checked and cleaned.8.Yes rx ok
on all bands.
See what i mean a real stinker .
Thanks for all your help.
Ken
G3SDW....
> Ken:
> My next question is, what is the plate voltage and current when
peaked for the maximum whatever you get out ?
> Check the RL-1 relay contacts.
> With the power off, measure the ohms from the cathode connections
to ground. The 4, 20 ohm cathode resistors that are in paralled
should read 5 ohms. If they read a lower ohms such as a short, there
is a shorted capacitor in the cathode circuit.
> Does it have problems on all bands?
>
> Is this being checked on a dummy load? Are you sure the coax
jumpers are good? Is the receive OK ?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: KEN (G3SDW)
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, September 13, 2006 4:29 AM
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Do you get the 60 ma idle current ? Walt N9WB
> > ----- Original Message -----
> > From: KEN (G3SDW)
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, September 12, 2006 11:56 AM
> > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > Yes Walt the bias is ok 60ma,this one is making me scratch my
head
> Ken
> G3SDW....

> >
> > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
RIG
> MADE
> > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
THE
> > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> CATHODE
> > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
TO
> > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> COPIES.YES ON
> > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> RESISTORS
> > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> WERE THEY
> > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
USA.NOW
> ALL
> > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
TUNE
> AND
> > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> ADJUST
> > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
> THE
> > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> SWITCH TO
> > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
> SPINDLES
> > LINING UP PERFECTLY.
> > ANY IDEAS
> > 73 KEN
> > G3SDW
> > TORQUAY SOUTH DEVON
> > UK....
> >
> >
> >
> >
> >
> >
> > --
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
Date:

> 9/11/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date:
9/11/06
>
>
> [Non-text portions of this message have been removed]
>

9433. RE: [TS-520_820_530_830] 830s does have muffled TX audio!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 12:22:18 UTC
From: Darwin, Keith
Topic: 9410 Message: 9433

-----Original Message-----
From: Peter A Markavage

> Did you take into consideration the audio design circuitry
characteristics
> of the 2B receiver? Knowing how they pass the audio from the product
detector
> through the audio chain would be helpful in determining if you're
really hearing
> your actual audio or some massaged audio to conform to some Drake
design criteria.

I'm used to how the 2B sounds. My particular unit is a bit rich in the lows while still producing ample highs. I form that conclusion after listening to many SSB and AM signals with the receiver. When it is in 3.6 KHz bandwidth, it does a pretty good job of showing what is and isn't coming of the transmitter since the SSB TX signal is quite a bit narrower than 3.6 KHz.

> Further, under real world conditions, your audio will never quite
sound the same
> as it might on your local test bench setup given thousands of
listeners(with their
> own "unique" ears), hundreds of different receivers, an almost
infinite number of
> receiver setups (filters, DSP's, variable bandwidth, localized audio
receiver tailoring,
> etc.), QRM, QRN, etc.

Absolutely. Which is why I did several things during my testing to try to get results that are closer to real world.

1. Record the output of the 2B receiver so I can hear it when I'm not talking and so others can hear it.

2. Receive the signal off the air in the presence of QRM & QRN. The 2B had no way of knowing the 830s was only 2 feet away, it was still receiving the signal out of the ether and handling it as such.

Now, if adelphia could just get their stinking broken server back on line, I could post the recording and let you all hear it to see what you guys think.

- Keith KD1E -

<keith.darwin@...> writes:
> Hey folks

>
> I had some fun with the 830s last night. I configured my shack for
> recording. Fed the 830s into a dummy load and hooked my Drake 2B to
> the vertical antenna. I then transmitted on the 830s and received on
> the 2B so I could hear what the 830s really sounded like. I routed
> the headphone output of the 2B plus the mic feeding the 830s into a
> mixer and then to my PC where I recorded the session. What I heard
> was interesting.
>
> The audio of the 830s does seem to be lacking in highs and I know it
> isn't the mic (the recording clearly shows that). Looks like I'll be
> doing that cap swap that has been discussed here over the last couple
> of days.
>
> I tried to post the recording to my home page but the FTP server was
> down. Ain't Adelphia grand? Once I get the file up there I'll post
> the link so you can hear what I heard.
>
> BTW, if you're interested, I already have a couple of files up there
> for listening fun. R4A on SSB and on CW.
>
> http://users.adelphia.net/~keithdarwin/R4A_CW.mp3
> http://users.adelphia.net/~keithdarwin/R4A_SSB.mp3
>
> Hmm, these links are the right ones but don't seem to be working right

> now. Maybe soon?
>
> - Keith KD1E -

Yahoo! Groups Links

9434. Re: New member with 520SE questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 13:17:21 UTC
From: Phil
Topic: 9409 Message: 9434

Thanks Walt! I have joined the DrakeRadio group for my TR-4.

My TS-520SE is my main rig.

Phil VY2PR

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton"
<wmilton@...> wrote:
>
> Phil,
>
> Try this Yahoo Group for the Drake radio
DrakeRadio@yahoogroups.com I have
> the Drake TR4CW/Rit.
>
> Walt, KA2NJF
> Psalm 1
> A Child of the living God
> Walt
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Phil
> Sent: Tuesday, September 12, 2006 8:24 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] New member with 520SE questions
>
>
>
> Hello folks - new member here with a Kenwood TS-520SE which works
> great.
>
> I would love to modify my rig for better audio. What filter does
the
> TS-520SE use? Any possibility of being able to install a "wider"
> filter?
>
> It sounds surprisingly good for 400 to 2600 Hz -6db. But, I'd like
to
> do better! In a perfect world, I'd like to be running 100 to 3400 -
> 6db.
>
> Phil VY2PR
> PEI Canada

>
> PS - I also have a Drake TR-4 which I am restoring. Unfortunately,
> the Yahoo group for the Drake is completely overrun by spam.
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9435. RE: [TS-520_820_530_830] Drake List

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 12:11:39 UTC
From: Darwin, Keith
Topic: 9435 Message: 9435

Phil,

Also there is a Drake group at http://www.zerobeat.net/drakelist/ I did some restoration on an R4A (sold it) and currently have a rather nice 2B which I have used to monitor the TX signal from my 830s.

- Keith -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Walter Milton
Sent: Tuesday, September 12, 2006 10:46 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] New member with 520SE questions

Phil,

Try this Yahoo Group for the Drake radio DrakeRadio@yahoogroups.com. I have the Drake TR4CW/Rit.

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Phil
Sent: Tuesday, September 12, 2006 8:24 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] New member with 520SE questions

Hello folks - new member here with a Kenwood TS-520SE which works great.

I would love to modify my rig for better audio. What filter does the TS-520SE use? Any possibility of being able to install a "wider" filter?

It sounds surprisingly good for 400 to 2600 Hz -6db. But, I'd like to do better! In a perfect world, I'd like to be running 100 to 3400 - 6db.

Phil VY2PR
PEI Canada

PS - I also have a Drake TR-4 which I am restoring. Unfortunately, the Yahoo group for the Drake is completely overrun by spam.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

9436. S-meter lamp is intermittent.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 14:46:51 UTC
From: Darwin, Keith
Topic: 9436 Message: 9436

My 830s has one problem. The lamp for the S-meter is intermittent. The lamp has been replaced at least one time in the past by a prior owner.

What is the right lamp and where do you find them?

- Keith KD1E -

[Non-text portions of this message have been removed]

9437. Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 15:40:34 UTC
From: Bill Scurlock
Topic: 9436 Message: 9437

Keith, you can get them from Ken, K4EAA.

73, Bill, K5GCW
----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 9:46 AM
Subject: [TS-520_820_530_830] S-meter lamp is intermittent.

My 830s has one problem. The lamp for the S-meter is intermittent. The lamp has been replaced at least one time in the past by a prior owner.

What is the right lamp and where do you find them?

- Keith KD1E -

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9438. Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 16:18:23 UTC
From: Ruben Echevarria
Topic: 9436 Message: 9438

try www.k4eaa.com

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

----- Original Message ----
From: "Darwin, Keith" <keith.darwin@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 10:46:51 AM
Subject: [TS-520_820_530_830] S-meter lamp is intermittent.

My 830s has one problem. The lamp for the S-meter is intermittent. The lamp has been replaced at least one time in the past by a prior owner.

What is the right lamp and where do you find them?

- Keith KD1E -

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9439. Re: S-meter lamp is intermittent.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 16:37:44 UTC
From: max_ve3tmt
Topic: 9436 Message: 9439

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:
>
> My 830s has one problem. The lamp for the S-meter is intermittent. The
> lamp has been replaced at least one time in the past by a prior owner.
>
> What is the right lamp and where do you find them?
>
> - Keith KD1E -

Go with a bright white LED and voltage dropping resistor, It will
never burn out again.

Max VE3TMT

9440. RE: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 16:39:00 UTC
From: Richard Harris
Topic: 9412 Message: 9440

Ken,

Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A few shorted turns might cause your problem. According to the Service Manual, the inductance should be 470uH.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
Sent: 13 September 2006 10:29
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do you get the 60 ma idle current ? Walt N9WB
> ----- Original Message -----
> From: KEN (G3SDW)
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, September 12, 2006 11:56 AM
> Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> Yes Walt the bias is ok 60ma,this one is making me scratch my head
Ken
G3SDW....
>
> HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG
MADE
> A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE
> CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
CATHODE
> RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO
> REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
COPIES.YES ON
> SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
RESISTORS
> AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
WERE THEY
> CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW
ALL
> THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE
AND
> JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
ADJUST
> PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
THE

> RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
SWITCH TO
> MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
SPINDLES
> LINING UP PERFECTLY.
> ANY IDEAS
> 73 KEN
> G3SDW
> TORQUAY SOUTH DEVON
> UK....
>
>
>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date:
9/11/06
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9441. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 17:51:09 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9441

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Richard,
Thanks that is a good posibility i might have to unwind it and start
again because i do not think that i will find another one not unless
anybody knows any better.
Thanks for your concern and as somebody said to me just recently
quote "We are all in this together".
73
Ken
G3SDW....
>
> Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
few shorted turns might cause your problem. According to the
Service Manual, the inductance should be 470uH.
>
> Richard G3OTK
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 10:29
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Do you get the 60 ma idle current ? Walt N9WB
> > ----- Original Message -----
> > From: KEN (G3SDW)
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, September 12, 2006 11:56 AM
> > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > Yes Walt the bias is ok 60ma,this one is making me scratch my
head
> Ken
> G3SDW....
> >
> > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG
> MADE
> > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE
> > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> CATHODE

> > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO
> > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> COPIES.YES ON
> > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> RESISTORS
> > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> WERE THEY
> > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW
> ALL
> > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE
> AND
> > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> ADJUST
> > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
> THE
> > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> SWITCH TO
> > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
> SPINDLES
> > LINING UP PERFECTLY.
> > ANY IDEAS
> > 73 KEN
> > G3SDW
> > TORQUAY SOUTH DEVON
> > UK....
> >
> >
> >
> >
> >
> >
> > --
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date:
> 9/11/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

9442. RE: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 18:21:00 UTC
From: Richard Harris
Topic: 9412 Message: 9442

Ken,

There are parts from a TS-530 being sold on e-bay at the present time, although none include the RF choke. If the RF choke in your rig is faulty, then you might be able to get one from the person selling those bits.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
Sent: 13 September 2006 18:51
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Richard,
Thanks that is a good posibility i might have to unwind it and start
again because i do not think that i will find another one not unless
anybody knows any better.
Thanks for your concern and as somebody said to me just recently
quote "We are all in this together".
73
Ken
G3SDW....
>
> Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
few shorted turns might cause your problem. According to the
Service Manual, the inductance should be 470uH.
>
> Richard G3OTK
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 10:29
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Do you get the 60 ma idle current ? Walt N9WB
> > ----- Original Message -----

> > From: KEN (G3SDW)
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, September 12, 2006 11:56 AM
> > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > Yes Walt the bias is ok 60ma,this one is making me scratch my
head
> Ken
> G3SDW....
> >
> > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE RIG
> MADE
> > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN. THE
> > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> CATHODE
> > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED TO
> > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> COPIES.YES ON
> > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> RESISTORS
> > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> WERE THEY
> > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE USA.NOW
> ALL
> > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN TUNE
> AND
> > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> ADJUST
> > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
> THE
> > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> SWITCH TO
> > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
> SPINDLES
> > LINING UP PERFECTLY.
> > ANY IDEAS
> > 73 KEN
> > G3SDW
> > TORQUAY SOUTH DEVON
> > UK....
> >
> >
> >
> >
> >
> >
> > --
> -----------
> >
> >
> > No virus found in this incoming message.

> > Checked by AVG Free Edition.
> > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release Date:
> 9/11/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9443. Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 21:25:14 UTC
From: Art
Topic: 9436 Message: 9443

Keith, Bill is correct on this because I got my bulbs from Ken, K4EAA and they work great. Ken is also a super nice guy to do business with. His web site is very informative about the Kenwood hybrids.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 11:40 AM
Subject: Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Keith, you can get them from Ken, K4EAA.

73, Bill, K5GCW
----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 9:46 AM
Subject: [TS-520_820_530_830] S-meter lamp is intermittent.

My 830s has one problem. The lamp for the S-meter is intermittent. The lamp has been replaced at least one time in the past by a prior owner.

What is the right lamp and where do you find them?

- Keith KD1E -

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/447 - Release Date: 9/13/2006

[Non-text portions of this message have been removed]

9444. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 22:05:18 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9444

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Richard,
Have just sent a email to the guy on ebay just hope i get a reply.
I have just measured the dc resistance of the choke it is 2.7 ohms
what do you think.
73
Ken
G3SDW....
> Ken,
>
> There are parts from a TS-530 being sold on e-bay at the present
time, although none include the RF choke. If the RF choke in your
rig is faulty, then you might be able to get one from the person
selling those bits.
>
> Richard G3OTK
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 18:51
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Richard,
> Thanks that is a good posibility i might have to unwind it and
start
> again because i do not think that i will find another one not
unless
> anybody knows any better.
> Thanks for your concern and as somebody said to me just recently
> quote "We are all in this together".
> 73
> Ken
> G3SDW....
> >
> > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> few shorted turns might cause your problem. According to the
> Service Manual, the inductance should be 470uH.
> >

> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 10:29
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> > >
> > > Do you get the 60 ma idle current ? Walt N9WB
> > > ----- Original Message -----
> > > From: KEN (G3SDW)
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > Yes Walt the bias is ok 60ma,this one is making me scratch my
> head
> > Ken
> > G3SDW....
> > >
> > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
RIG
> > MADE
> > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
THE
> > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > CATHODE
> > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
TO
> > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > COPIES.YES ON
> > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > RESISTORS
> > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > WERE THEY
> > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
USA.NOW
> > ALL
> > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
TUNE
> > AND
> > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> > ADJUST
> > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
> > THE
> > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND

> > SWITCH TO
> > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
> > SPINDLES
> > > LINING UP PERFECTLY.
> > > ANY IDEAS
> > > 73 KEN
> > > G3SDW
> > > TORQUAY SOUTH DEVON
> > > UK....
> > >
> > >
> > >
> > >
> > >
> > >
> > > --
> > -----------
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
Date:
> > 9/11/06
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

9445. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 22:26:33 UTC
From: Gordon
Topic: 9412 Message: 9445

Ken, Perhaps this is what you are looking for ?
http://cgi.ebay.com/Kenwood-TS-520-Original-RF-Chasis-coils-and-capacitors_W0QQitemZ330026626379QQihZ014QQcategoryZ40067QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "KEN (G3SDW)" <g3sdw@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Richard,
> Have just sent a email to the guy on ebay just hope i get a reply.
> I have just measured the dc resistance of the choke it is 2.7 ohms
> what do you think.
> 73
> Ken
> G3SDW....
> > Ken,
> >
> > There are parts from a TS-530 being sold on e-bay at the present
> time, although none include the RF choke. If the RF choke in your
> rig is faulty, then you might be able to get one from the person
> selling those bits.
> >
> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 18:51
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Thanks that is a good posibility i might have to unwind it and
> start
> > again because i do not think that i will find another one not
> unless
> > anybody knows any better.
> > Thanks for your concern and as somebody said to me just recently

> > quote "We are all in this together".
> > 73
> > Ken
> > G3SDW....
> > >
> > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> > few shorted turns might cause your problem. According to the
> > Service Manual, the inductance should be 470uH.
> > >
> > > Richard G3OTK
> > >
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 10:29
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> > > >
> > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > ----- Original Message -----
> > > > From: KEN (G3SDW)
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > Yes Walt the bias is ok 60ma,this one is making me scratch my
> > head
> > > > Ken
> > > > G3SDW....
> > > >
> > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
> RIG
> > > > MADE
> > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
> THE
> > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > > CATHODE
> > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
> TO
> > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > COPIES.YES ON
> > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > RESISTORS
> > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > > WERE THEY
> > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> USA.NOW

> > > ALL
> > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> TUNE
> > > AND
> > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> > > ADJUST
> > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
> > > THE
> > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> > > SWITCH TO
> > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
> > > SPINDLES
> > > > LINING UP PERFECTLY.
> > > > ANY IDEAS
> > > > 73 KEN
> > > > G3SDW
> > > > TORQUAY SOUTH DEVON
> > > > UK....
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > ---
> > > ----------
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> Date:
> > > 9/11/06
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

9446. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-13 23:55:58 UTC
From: Clif
Topic: 9412 Message: 9446

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ken, Perhaps this is what you are looking for ?
>
http://cgi.ebay.com/Kenwood-TS-520-Original-RF-Chasis-coils-and-capacitors_W0QQitemZ330026626379QQihZ014QQcategoryZ40067QQssPageNameZWDVWQQrdZ1QQcmdZViewItem
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "KEN (G3SDW)" <g3sdw@>
> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Have just sent a email to the guy on ebay just hope i get a reply.
> > I have just measured the dc resistance of the choke it is 2.7 ohms
> > what do you think.
> > 73
> > Ken
> > G3SDW....
>

The 520 and 530 have a totally different plate choke. The PN you are looking for is L33-0635-05. The service manual is wrong for the PN of L2. Also it has been discontinued by Kenwood.

If there is continuity thru the cholk and it doesn't appear burnt then it's probably ok. Make sure you have HV to the plate of the tubes. Most likely L1 opened up again when the tubes arced.

Does the "No dip" occur on all bands? If so then the choke is fine. It sounds more like a bad switch section if it's only on 1 band

Clif

9447. 830s SSB Recordings

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 00:36:39 UTC
From: Darwin, Keith
Topic: 9447 Message: 9447

Well, Adelphia got their server up and running.

I've posted two recordings I made of my 830s. The first one is a recording of the stock rig on transmit. The 2nd recording was made after I changed C106 from .015 uF to .001 uF.

The recording chain was like this.

Sennheiser 835 mic fed into a Behringer 802 mixer. Aux1 output from the mixer feeds the mic jack on the 830s. Headphone output from the Drake 2B is hooked into a 2nd channel on the mixer. The 2B is panned hard L on the mixer and the mic is panned hard R. L & R output are then fed to the M-Audio Delta 44 card in my computer and the two channels are recorded in Cakewalk Home Studio.

No effects, EQ, level changes (other than the obvious fades) were applied to the 2B signal. Gosh, I don't think I even did anything to the mic signal that I recorded.

When I listen to the 2 recordings I can tell the audio is brighter after the modification, but not by as much as I'd have thought. Have a listen and let me know what you think

http://users.adelphia.net/~keithdarwin/TS830s_2B.mp3
http://users.adelphia.net/~keithdarwin/TS830s_2B_Mod.mp3

And the recordings of the R4A are available.

http://users.adelphia.net/~keithdarwin/R4A_SSB.mp3
http://users.adelphia.net/~keithdarwin/R4A_CW.mp3

73!

- Keith -

[Non-text portions of this message have been removed]

9448. RE: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 06:46:00 UTC
From: Richard Harris
Topic: 9412 Message: 9448

Ken,

Are you able to measure the inductance? My reason for suggesting the choke was because it may have been subject to high currents when your Chinese tubes flashed over. This could have caused it to heat up, damaging the insulation and shorting some turns together. 2.7 ohms sounds resonable, but by itself doesn't tell the whole story.

Can you confirm that you have 60mA anode current when switched to SSB, that you can get good ALC deflection (a measure of grid current of the PAs) and that the problem is on all bands..

Richard

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
Sent: 13 September 2006 23:05
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Richard,
Have just sent a email to the guy on ebay just hope i get a reply.
I have just measured the dc resistance of the choke it is 2.7 ohms
what do you think.
73
Ken
G3SDW....
> Ken,
>
> There are parts from a TS-530 being sold on e-bay at the present
time, although none include the RF choke. If the RF choke in your
rig is faulty, then you might be able to get one from the person
selling those bits.
>
> Richard G3OTK
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 18:51
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>

>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Richard,
> Thanks that is a good posibility i might have to unwind it and
start
> again because i do not think that i will find another one not
unless
> anybody knows any better.
> Thanks for your concern and as somebody said to me just recently
> quote "We are all in this together".
> 73
> Ken
> G3SDW....
> >
> > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> few shorted turns might cause your problem. According to the
> Service Manual, the inductance should be 470uH.
> >
> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 10:29
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> > >
> > > Do you get the 60 ma idle current ? Walt N9WB
> > > ----- Original Message -----
> > > From: KEN (G3SDW)
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > Yes Walt the bias is ok 60ma,this one is making me scratch my
> head
> > Ken
> > G3SDW....
> > >
> > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
RIG
> > MADE
> > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
THE
> > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > CATHODE

> > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
TO
> > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > COPIES.YES ON
> > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > RESISTORS
> > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > WERE THEY
> > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
USA.NOW
> > ALL
> > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
TUNE
> > AND
> > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> > ADJUST
> > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF IN
> > THE
> > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> > SWITCH TO
> > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH BOTH
> > SPINDLES
> > > LINING UP PERFECTLY.
> > > ANY IDEAS
> > > 73 KEN
> > > G3SDW
> > > TORQUAY SOUTH DEVON
> > > UK....
> > >
> > >
> > >
> > >
> > >
> > >
> > > --
> > -----------
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG Free Edition.
> > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
Date:
> > 9/11/06
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >

> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9449. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 08:16:46 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9449

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Hi richard, no i have not any test gear to check the inductance any
more and yes i have grid bias 60ma also all ok on all bands and good
alc peak.I think i am going to unwind the old one and rewind it with
new wire i think i have some, that i think will be the best way
forward.I have been in touch with the guy on ebay he said he has not
got any as they are the first things to go which makes me feel that
we are on the right track,but he will be breaking another 530 next
week.
thanks again .
Ken
G3SDW....
> Ken,
>
> Are you able to measure the inductance? My reason for suggesting
the choke was because it may have been subject to high currents when
your Chinese tubes flashed over. This could have caused it to heat
up, damaging the insulation and shorting some turns together. 2.7
ohms sounds resonable, but by itself doesn't tell the whole story.
>
> Can you confirm that you have 60mA anode current when switched to
SSB, that you can get good ALC deflection (a measure of grid current
of the PAs) and that the problem is on all bands..
>
> Richard
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 23:05
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Richard,
> Have just sent a email to the guy on ebay just hope i get a reply.
> I have just measured the dc resistance of the choke it is 2.7 ohms
> what do you think.
> 73
> Ken
> G3SDW....

> > Ken,
> >
> > There are parts from a TS-530 being sold on e-bay at the present
> time, although none include the RF choke. If the RF choke in your
> rig is faulty, then you might be able to get one from the person
> selling those bits.
> >
> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 18:51
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Thanks that is a good posibility i might have to unwind it and
> start
> > again because i do not think that i will find another one not
> unless
> > anybody knows any better.
> > Thanks for your concern and as somebody said to me just recently
> > quote "We are all in this together".
> > 73
> > Ken
> > G3SDW....
> > >
> > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> > few shorted turns might cause your problem. According to the
> > Service Manual, the inductance should be 470uH.
> > >
> > > Richard G3OTK
> > >
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@...m]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 10:29
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@>
wrote:
> > > >

> > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > ----- Original Message -----
> > > > From: KEN (G3SDW)
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > Yes Walt the bias is ok 60ma,this one is making me scratch
my
> > head
> > > Ken
> > > G3SDW....
> > > >
> > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
> RIG
> > > MADE
> > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
> THE
> > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > > CATHODE
> > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
> TO
> > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > COPIES.YES ON
> > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > RESISTORS
> > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > > WERE THEY
> > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> USA.NOW
> > > ALL
> > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> TUNE
> > > AND
> > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> > > ADJUST
> > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF
IN
> > > THE
> > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> > > SWITCH TO
> > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH
BOTH
> > > SPINDLES
> > > > LINING UP PERFECTLY.
> > > > ANY IDEAS
> > > > 73 KEN
> > > > G3SDW
> > > > TORQUAY SOUTH DEVON
> > > > UK....
> > > >

> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --
> > > ------------
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> Date:
> > > 9/11/06
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

9450. RE: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 09:04:00 UTC
From: Richard Harris
Topic: 9412 Message: 9450

Ken,

Good luck with the rewind. Incidentally, if you have a 'scope or a general coverage receiver, then maybe a simple Colpits oscillator with known (fixed) capacitors would enable you to verify the inductance by measuring the frequency.

Let the group know how you get on - this all adds to the fund of knowledge.

Richard

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
Sent: 14 September 2006 09:17
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris <rjharris@...> wrote:
>Hi richard, no i have not any test gear to check the inductance any more and yes i have grid bias 60ma also all ok on all bands and good alc peak.I think i am going to unwind the old one and rewind it with new wire i think i have some, that i think will be the best way forward.I have been in touch with the guy on ebay he said he has not got any as they are the first things to go which makes me feel that we are on the right track,but he will be breaking another 530 next week.
thanks again .
Ken
G3SDW....
> Ken,
>
> Are you able to measure the inductance? My reason for suggesting the choke was because it may have been subject to high currents when your Chinese tubes flashed over. This could have caused it to heat up, damaging the insulation and shorting some turns together. 2.7 ohms sounds resonable, but by itself doesn't tell the whole story.
>
> Can you confirm that you have 60mA anode current when switched to SSB, that you can get good ALC deflection (a measure of grid current of the PAs) and that the problem is on all bands..
>
> Richard
>
>
> -----Original Message-----

> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 23:05
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Richard,
> Have just sent a email to the guy on ebay just hope i get a reply.
> I have just measured the dc resistance of the choke it is 2.7 ohms
> what do you think.
> 73
> Ken
> G3SDW....
> > Ken,
> >
> > There are parts from a TS-530 being sold on e-bay at the present
> time, although none include the RF choke. If the RF choke in your
> rig is faulty, then you might be able to get one from the person
> selling those bits.
> >
> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 18:51
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Thanks that is a good posibility i might have to unwind it and
> start
> > again because i do not think that i will find another one not
> unless
> > anybody knows any better.
> > Thanks for your concern and as somebody said to me just recently
> > quote "We are all in this together".
> > 73
> > Ken
> > G3SDW....
> > >
> > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> > few shorted turns might cause your problem. According to the

> > Service Manual, the inductance should be 470uH.
> > >
> > > Richard G3OTK
> > >
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 10:29
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@>
wrote:
> > > >
> > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > ----- Original Message -----
> > > > From: KEN (G3SDW)
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > Yes Walt the bias is ok 60ma,this one is making me scratch
my
> > head
> > > > Ken
> > > > G3SDW....
> > > >
> > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
> RIG
> > > MADE
> > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
> THE
> > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > > CATHODE
> > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
> TO
> > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > COPIES.YES ON
> > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > RESISTORS
> > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > > WERE THEY
> > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> USA.NOW
> > > ALL
> > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> TUNE
> > > AND
> > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU

> > > ADJUST
> > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF
IN
> > > THE
> > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> > > SWITCH TO
> > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH
BOTH
> > > SPINDLES
> > > > LINING UP PERFECTLY.
> > > > ANY IDEAS
> > > > 73 KEN
> > > > G3SDW
> > > > TORQUAY SOUTH DEVON
> > > > UK....
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --
> > > -----------
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> Date:
> > > 9/11/06
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9451. Re: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 11:34:47 UTC
From: n9wb
Topic: 9412 Message: 9451

Ken:
I see some possible confusion here. L2 is the large plate choke that is connected to the parasitic chokes for the finals. You should look at it and see if it looks damaged. L1 is the small choke on the opposite end of the plate choke. It is probably the one that blew when C-8 shorted. L1 is not all that critical. It's purpose is to aid in keeping RF out of the supply line causing parasitic problems. If L2, the plate choke were shorted internally but enough was left that it was not obviously fried, it would seem to me that your power would be higher on 10 meters and lower on 80. The only thing that this choke does is create a high impedance at RF frequencies and a low resistance at DC so the RF output of the tubes will go to the Pi network instead of being grounded by the B+ supply.

L2 the plate choke, is the one that is 450 uh.
L1 the smaller choke is 150 uh.

I am guessing that your screen voltage and your plate voltage are OK because you are getting 250 ma Ic.
C7 could be open or shorted. If it were open, it could cause these problems. It is .001 High voltage
If it were shorted, you would have B+ on the antenna output and have a fried L5.
L5 could be open or shorted. It is 470 uh.
C 12 could be open or shorted.
TC-1 the neutralization capacitor could be shorted.
The Fox Tango Yaesu group has a site called the Candy Store where they have some new capacitors for Yaesus. You might find a suitable .001 and 100 pf there.

To eliminate most of these possibilities, do the following:

In the final unit, with L5 in place:
With the rig disconnected and the high voltage discharged, measure the resistance between any place on the tank coil and ground. It should show a very low resistance, the resistance of L5.
If it shows a high resistance, L5 is open.

Now disconnect one end of L5:
Make the same resistance check. This time it should show an open circuit.
If it shows any resistance at all, Check both sides of TC-1 the neutralization capacitor to ground. It the resistance is the same on either side of TC-1 Check across TC-1 and tell us what you get.
Check the resistance across C-7 in the circuit.

Inspect L5 check the resistance across it and reconnect it if it looks good.

Now, please humor me.

With the rig connected to the dummy load in the manner that you have been seeing the very low output, remove the coax from the back of the rig and measure the DC resistance across this coax end. It should show 50 ohms or close to it. Now, reconnect this coax and remove

the end that plugs into the dummy load. Measure the resistance across this. It may read a short. If so you can skip the next step. If it does not, with a clip lead connect the center of the SO-239 inside the rig to the rig chassis and check again. Now you should show a short.

What you are checking is to see that the coax path to the dummy load is not open or shorted. Then with the nest check, you are checking to be sure that the coax is making a good connection to the SO-239.

Let us know what you find.

Vy 73, Walt N9WB

----- Original Message -----
From: KEN (G3SDW)
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 14, 2006 3:16 AM
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Hi richard, no i have not any test gear to check the inductance any
more and yes i have grid bias 60ma also all ok on all bands and good
alc peak.I think i am going to unwind the old one and rewind it with
new wire i think i have some, that i think will be the best way
forward.I have been in touch with the guy on ebay he said he has not
got any as they are the first things to go which makes me feel that
we are on the right track,but he will be breaking another 530 next
week.
thanks again .
Ken
G3SDW....
> Ken,
>
> Are you able to measure the inductance? My reason for suggesting
the choke was because it may have been subject to high currents when
your Chinese tubes flashed over. This could have caused it to heat
up, damaging the insulation and shorting some turns together. 2.7
ohms sounds resonable, but by itself doesn't tell the whole story.
>
> Can you confirm that you have 60mA anode current when switched to
SSB, that you can get good ALC deflection (a measure of grid current
of the PAs) and that the problem is on all bands..
>
> Richard
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 23:05
> To: TS-520_820_530_830@yahoogroups.com

> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Richard,
> Have just sent a email to the guy on ebay just hope i get a reply.
> I have just measured the dc resistance of the choke it is 2.7 ohms
> what do you think.
> 73
> Ken
> G3SDW....
> > Ken,
> >
> > There are parts from a TS-530 being sold on e-bay at the present
> time, although none include the RF choke. If the RF choke in your
> rig is faulty, then you might be able to get one from the person
> selling those bits.
> >
> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 18:51
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Thanks that is a good posibility i might have to unwind it and
> start
> > again because i do not think that i will find another one not
> unless
> > anybody knows any better.
> > Thanks for your concern and as somebody said to me just recently
> > quote "We are all in this together".
> > 73
> > Ken
> > G3SDW....
> > >
> > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> > few shorted turns might cause your problem. According to the
> > Service Manual, the inductance should be 470uH.
> > >
> > > Richard G3OTK
> > >

> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 10:29
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@>
wrote:
> > > >
> > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > ----- Original Message -----
> > > > From: KEN (G3SDW)
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > Yes Walt the bias is ok 60ma,this one is making me scratch
my
> > head
> > > > Ken
> > > > G3SDW....
> > > >
> > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
> RIG
> > > MADE
> > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
> THE
> > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > > CATHODE
> > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
> TO
> > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > COPIES.YES ON
> > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > RESISTORS
> > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > > WERE THEY
> > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> USA.NOW
> > > ALL
> > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> TUNE
> > > AND
> > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> > > ADJUST
> > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF
IN
> > > THE

> > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> > > SWITCH TO
> > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH
BOTH
> > > SPINDLES
> > > > LINING UP PERFECTLY.
> > > > ANY IDEAS
> > > > 73 KEN
> > > > G3SDW
> > > > TORQUAY SOUTH DEVON
> > > > UK....
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --
> > > -----------
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> Date:
> > > 9/11/06
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/446 - Release Date: 9/12/06

[Non-text portions of this message have been removed]

9452. Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 12:39:22 UTC
From: n9wb
Topic: 9436 Message: 9452

I go to Radio shack and get some 12v bulbs that look like grain of wheat bulbs. They are small and have bare solid wires out the bottom. I often stick a resistor like 100 ohms in series so they will last a while. But if you could fit LED's and a resistor in there, they would last longer.

Vy 73, Walt N9WB

----- Original Message -----
From: Art
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 4:25 PM
Subject: Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Keith, Bill is correct on this because I got my bulbs from Ken, K4EAA and they work great. Ken is also a super nice guy to do business with. His web site is very informative about the Kenwood hybrids.

73
Art
WB4MNK
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 11:40 AM
Subject: Re: [TS-520_820_530_830] S-meter lamp is intermittent.

Keith, you can get them from Ken, K4EAA.

73, Bill, K5GCW
----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 13, 2006 9:46 AM
Subject: [TS-520_820_530_830] S-meter lamp is intermittent.

My 830s has one problem. The lamp for the S-meter is intermittent. The
lamp has been replaced at least one time in the past by a prior owner.

What is the right lamp and where do you find them?

- Keith KD1E -

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/447 - Release Date: 9/13/2006

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/446 - Release Date: 9/12/06

[Non-text portions of this message have been removed]

9453. Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 11:54:46 UTC
From: KEN (G3SDW)
Topic: 9412 Message: 9453

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>Richard, just to let you know that i have rewound the choke and all
is well.Lets face it we all wound our coils and chokes in the old
days we had no choice so why not now .From start to finish with the
rig complete and back in position 1hour how bad is that.
Thanks to all who helped (we are all in this together)
Many best 73/88 to all in the group
Ken
G3SDW....
> Ken,
>
> Good luck with the rewind. Incidentally, if you have a 'scope or
a general coverage receiver, then maybe a simple Colpits oscillator
with known (fixed) capacitors would enable you to verify the
inductance by measuring the frequency.
>
> Let the group know how you get on - this all adds to the fund of
knowledge.
>
> Richard
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 14 September 2006 09:17
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Hi richard, no i have not any test gear to check the inductance
any
> more and yes i have grid bias 60ma also all ok on all bands and
good
> alc peak.I think i am going to unwind the old one and rewind it
with
> new wire i think i have some, that i think will be the best way
> forward.I have been in touch with the guy on ebay he said he has
not
> got any as they are the first things to go which makes me feel
that
> we are on the right track,but he will be breaking another 530 next

> week.
> thanks again .
> Ken
> G3SDW....
> > Ken,
> >
> > Are you able to measure the inductance? My reason for suggesting
> the choke was because it may have been subject to high currents
when
> your Chinese tubes flashed over. This could have caused it to heat
> up, damaging the insulation and shorting some turns together. 2.7
> ohms sounds resonable, but by itself doesn't tell the whole story.
> >
> > Can you confirm that you have 60mA anode current when switched
to
> SSB, that you can get good ALC deflection (a measure of grid
current
> of the PAs) and that the problem is on all bands..
> >
> > Richard
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 23:05
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Have just sent a email to the guy on ebay just hope i get a
reply.
> > I have just measured the dc resistance of the choke it is 2.7
ohms
> > what do you think.
> > 73
> > Ken
> > G3SDW....
> > > Ken,
> > >
> > > There are parts from a TS-530 being sold on e-bay at the
present
> > time, although none include the RF choke. If the RF choke in
your
> > rig is faulty, then you might be able to get one from the person
> > selling those bits.
> > >

> > > Richard G3OTK
> > >
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 18:51
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > > <rjharris@> wrote:
> > > >Richard,
> > > Thanks that is a good posibility i might have to unwind it and
> > start
> > > again because i do not think that i will find another one not
> > unless
> > > anybody knows any better.
> > > Thanks for your concern and as somebody said to me just
recently
> > > quote "We are all in this together".
> > > 73
> > > Ken
> > > G3SDW....
> > > >
> > > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes.
A
> > > few shorted turns might cause your problem. According to the
> > > Service Manual, the inductance should be 470uH.
> > > >
> > > > Richard G3OTK
> > > >
> > > >
> > > > -----Original Message-----
> > > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > > Sent: 13 September 2006 10:29
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@>
> wrote:
> > > > >
> > > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > > ----- Original Message -----
> > > > > From: KEN (G3SDW)
> > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > Sent: Tuesday, September 12, 2006 11:56 AM

> > > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > > Yes Walt the bias is ok 60ma,this one is making me scratch
> my
> > > head
> > > > Ken
> > > > G3SDW....
> > > > >
> > > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY
THE
> > RIG
> > > > MADE
> > > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD
BLOWN.
> > THE
> > > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED
THE
> > > > CATHODE
> > > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN
DECIDED
> > TO
> > > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > > COPIES.YES ON
> > > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > > RESISTORS
> > > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK
TO
> > > > WERE THEY
> > > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> > USA.NOW
> > > > ALL
> > > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> > TUNE
> > > > AND
> > > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN
YOU
> > > > ADJUST
> > > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF
> IN
> > > > THE
> > > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE
BAND
> > > > SWITCH TO
> > > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH
> BOTH
> > > > SPINDLES
> > > > > LINING UP PERFECTLY.
> > > > > ANY IDEAS
> > > > > 73 KEN
> > > > > G3SDW
> > > > > TORQUAY SOUTH DEVON

> > > > > UK....
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --
> > > > ------------
> > > > >
> > > > >
> > > > > No virus found in this incoming message.
> > > > > Checked by AVG Free Edition.
> > > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> > Date:
> > > > 9/11/06
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

9454. Re: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 12:08:38 UTC
From: dennis hatch
Topic: 9412 Message: 9454

More than likely, the shaft coupler on the band select switch inside the PA Cage is out of sync with the rest of the switches on the RF Board..... WA0WAB

n9wb <n9wb@...> wrote: Ken:
I see some possible confusion here. L2 is the large plate choke that is connected to the parasitic chokes for the finals. You should look at it and see if it looks damaged. L1 is the small choke on the opposite end of the plate choke. It is probably the one that blew when C-8 shorted. L1 is not all that critical. It's purpose is to aid in keeping RF out of the supply line causing parasitic problems. If L2, the plate choke were shorted internally but enough was left that it was not obviously fried, it would seem to me that your power would be higher on 10 meters and lower on 80. The only thing that this choke does is create a high impedance at RF frequencies and a low resistance at DC so the RF output of the tubes will go to the Pi network instead of being grounded by the B+ supply.

L2 the plate choke, is the one that is 450 uh.
L1 the smaller choke is 150 uh.

I am guessing that your screen voltage and your plate voltage are OK because you are getting 250 ma Ic.
C7 could be open or shorted. If it were open, it could cause these problems. It is .001 High voltage
If it were shorted, you would have B+ on the antenna output and have a fried L5.
L5 could be open or shorted. It is 470 uh.
C 12 could be open or shorted.
TC-1 the neutralization capacitor could be shorted.
The Fox Tango Yaesu group has a site called the Candy Store where they have some new capacitors for Yaesus. You might find a suitable .001 and 100 pf there.

To eliminate most of these possibilities, do the following:

In the final unit, with L5 in place:
With the rig disconnected and the high voltage discharged, measure the resistance between any place on the tank coil and ground. It should show a very low resistance, the resistance of L5.
If it shows a high resistance, L5 is open.

Now disconnect one end of L5:
Make the same resistance check. This time it should show an open circuit.
If it shows any resistance at all, Check both sides of TC-1 the neutralization capacitor to ground. It the resistance is the same on either side of TC-1 Check across TC-1 and tell us what you get.
Check the resistance across C-7 in the circuit.

Inspect L5 check the resistance across it and reconnect it if it looks good.

Now, please humor me.

With the rig connected to the dummy load in the manner that you have been seeing the very low output, remove the coax from the back of the rig and measure the DC resistance across this coax end. It should show 50 ohms or close to it. Now, reconnect this coax and remove the end that plugs into the dummy load. Measure the resistance across this. It may read a short. If so you can skip the next step. If it does not, with a clip lead connect the center of the SO-239 inside the rig to the rig chassis and check again. Now you should show a short.

What you are checking is to see that the coax path to the dummy load is not open or shorted. Then with the nest check, you are checking to be sure that the coax is making a good connection to the SO-239.

Let us know what you find.

Vy 73, Walt N9WB

----- Original Message -----
From: KEN (G3SDW)
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 14, 2006 3:16 AM
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
wrote:
>Hi richard, no i have not any test gear to check the inductance any
more and yes i have grid bias 60ma also all ok on all bands and good
alc peak.I think i am going to unwind the old one and rewind it with
new wire i think i have some, that i think will be the best way
forward.I have been in touch with the guy on ebay he said he has not
got any as they are the first things to go which makes me feel that
we are on the right track,but he will be breaking another 530 next
week.
thanks again .
Ken
G3SDW....
> Ken,
>
> Are you able to measure the inductance? My reason for suggesting
the choke was because it may have been subject to high currents when
your Chinese tubes flashed over. This could have caused it to heat
up, damaging the insulation and shorting some turns together. 2.7
ohms sounds resonable, but by itself doesn't tell the whole story.
>
> Can you confirm that you have 60mA anode current when switched to
SSB, that you can get good ALC deflection (a measure of grid current
of the PAs) and that the problem is on all bands..
>
> Richard
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-

520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 13 September 2006 23:05
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> wrote:
> >Richard,
> Have just sent a email to the guy on ebay just hope i get a reply.
> I have just measured the dc resistance of the choke it is 2.7 ohms
> what do you think.
> 73
> Ken
> G3SDW....
> > Ken,
> >
> > There are parts from a TS-530 being sold on e-bay at the present
> time, although none include the RF choke. If the RF choke in your
> rig is faulty, then you might be able to get one from the person
> selling those bits.
> >
> > Richard G3OTK
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 18:51
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > wrote:
> > >Richard,
> > Thanks that is a good posibility i might have to unwind it and
> start
> > again because i do not think that i will find another one not
> unless
> > anybody knows any better.
> > Thanks for your concern and as somebody said to me just recently
> > quote "We are all in this together".
> > 73
> > Ken
> > G3SDW....
> > >
> > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes. A
> > few shorted turns might cause your problem. According to the
> > Service Manual, the inductance should be 470uH.

> > >
> > > Richard G3OTK
> > >
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 10:29
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb"
wrote:
> > > >
> > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > ----- Original Message -----
> > > > From: KEN (G3SDW)
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > Yes Walt the bias is ok 60ma,this one is making me scratch
my
> > head
> > > Ken
> > > G3SDW....
> > > >
> > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY THE
> RIG
> > > MADE
> > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD BLOWN.
> THE
> > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED THE
> > > CATHODE
> > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN DECIDED
> TO
> > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > COPIES.YES ON
> > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > RESISTORS
> > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK TO
> > > WERE THEY
> > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> USA.NOW
> > > ALL
> > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> TUNE
> > > AND
> > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN YOU
> > > ADJUST

> > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF
IN
> > > THE
> > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE BAND
> > > SWITCH TO
> > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH
BOTH
> > > SPINDLES
> > > > LINING UP PERFECTLY.
> > > > ANY IDEAS
> > > > 73 KEN
> > > > G3SDW
> > > > TORQUAY SOUTH DEVON
> > > > UK....
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --
> > > ----------
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG Free Edition.
> > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> Date:
> > > 9/11/06
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]

>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/446 - Release Date: 9/12/06

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9455. RE: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 12:34:00 UTC
From: Richard Harris
Topic: 9412 Message: 9455

Ken,

Well done! Great news!.

I look forward to a QSO TS-530SP to TS-530SP sometime - I operate /P most weekends from near Honiton, so not far away.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
Sent: 14 September 2006 12:55
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris <rjharris@...> wrote:
>Richard, just to let you know that i have rewound the choke and all is well.Lets face it we all wound our coils and chokes in the old days we had no choice so why not now .From start to finish with the rig complete and back in position 1hour how bad is that.
Thanks to all who helped (we are all in this together)
Many best 73/88 to all in the group
Ken
G3SDW....
> Ken,
>
> Good luck with the rewind. Incidentally, if you have a 'scope or a general coverage receiver, then maybe a simple Colpits oscillator with known (fixed) capacitors would enable you to verify the inductance by measuring the frequency.
>
> Let the group know how you get on - this all adds to the fund of knowledge.
>
> Richard
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> Sent: 14 September 2006 09:17
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
>

>
> --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> <rjharris@> wrote:
> >Hi richard, no i have not any test gear to check the inductance
any
> more and yes i have grid bias 60ma also all ok on all bands and
good
> alc peak.I think i am going to unwind the old one and rewind it
with
> new wire i think i have some, that i think will be the best way
> forward.I have been in touch with the guy on ebay he said he has
not
> got any as they are the first things to go which makes me feel
that
> we are on the right track,but he will be breaking another 530 next
> week.
> thanks again .
> Ken
> G3SDW....
> > Ken,
> >
> > Are you able to measure the inductance? My reason for suggesting
> the choke was because it may have been subject to high currents
when
> your Chinese tubes flashed over. This could have caused it to heat
> up, damaging the insulation and shorting some turns together. 2.7
> ohms sounds resonable, but by itself doesn't tell the whole story.
> >
> > Can you confirm that you have 60mA anode current when switched
to
> SSB, that you can get good ALC deflection (a measure of grid
current
> of the PAs) and that the problem is on all bands..
> >
> > Richard
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > Sent: 13 September 2006 23:05
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > <rjharris@> wrote:
> > >Richard,
> > Have just sent a email to the guy on ebay just hope i get a
reply.

> > I have just measured the dc resistance of the choke it is 2.7
ohms
> > what do you think.
> > 73
> > Ken
> > G3SDW....
> > > Ken,
> > >
> > > There are parts from a TS-530 being sold on e-bay at the
present
> > time, although none include the RF choke. If the RF choke in
your
> > rig is faulty, then you might be able to get one from the person
> > selling those bits.
> > >
> > > Richard G3OTK
> > >
> > >
> > > -----Original Message-----
> > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > Sent: 13 September 2006 18:51
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
> > > <rjharris@> wrote:
> > > >Richard,
> > > Thanks that is a good posibility i might have to unwind it and
> > start
> > > again because i do not think that i will find another one not
> > unless
> > > anybody knows any better.
> > > Thanks for your concern and as somebody said to me just
recently
> > > quote "We are all in this together".
> > > 73
> > > Ken
> > > G3SDW....
> > > >
> > > > Maybe the PA RF Choke, L2, was damaged by the Chinese tubes.
A
> > > few shorted turns might cause your problem. According to the
> > > Service Manual, the inductance should be 470uH.
> > > >
> > > > Richard G3OTK
> > > >
> > > >
> > > > -----Original Message-----

> > > > From: TS-520_820_530_830@yahoogroups.com [mailto:TS-
> > > 520_820_530_830@yahoogroups.com]On Behalf Of KEN (G3SDW)
> > > > Sent: 13 September 2006 10:29
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Subject: [TS-520_820_530_830] Re: TS530SP WITH NO DIP
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@>
> wrote:
> > > > > >
> > > > > > Do you get the 60 ma idle current ? Walt N9WB
> > > > > > ----- Original Message -----
> > > > > > From: KEN (G3SDW)
> > > > > > To: TS-520_820_530_830@yahoogroups.com
> > > > > > Sent: Tuesday, September 12, 2006 11:56 AM
> > > > > > Subject: [TS-520_820_530_830] TS530SP WITH NO DIP
> > > > > > Yes Walt the bias is ok 60ma,this one is making me scratch
> my
> > > head
> > > > > Ken
> > > > > G3SDW....
> > > > > >
> > > > > > HI FOLKS, I AM IN TROUBLE WITH MY TS530SP. JUST RECENTLY
THE
> > RIG
> > > > > MADE
> > > > > > A LOUD BANG AND ON OPENING I FOUND THAT L1 AND C8 HAD
BLOWN.
> > THE
> > > > > > CAPACITOR WAS BURNT AND CRACKED.I FIRST OF ALL REPLACED
THE
> > > > CATHODE
> > > > > > RESISTORS AND THE SCREEN RESISTORS AS WELL.SO I THEN
DECIDED
> > TO
> > > > > > REPLACE ALL THE TUBES. LIKE A FOOL I BOUGHT SOME CHINESE
> > > > COPIES.YES ON
> > > > > > SWITCH ON THEY FLASHED OVER.I HAD TO REPLACE THE CATHODE
> > > > RESISTORS
> > > > > > AGAIN AS THEY HAD GONE O/C.SO THE CHINESE TUBES WENT BACK
TO
> > > > WERE THEY
> > > > > > CAME FROM AND I MANAGED TO GET SOME GE TYPES MADE IN THE
> > USA.NOW
> > > > ALL
> > > > > > THE DC CONDITIONS ARE OK BUT NO PLATE DIP,PLENTY OF ALC IN
> > TUNE
> > > > AND
> > > > > > JUST ABOUT 5WATTS ON THE RF METER WHICH DOES ALTER WHEN
YOU

> > > > ADJUST
> > > > > PLATE AND LOAD CONTROLS BUT THE PLATE DOES NOT PEAK THE RF
> IN
> > > > THE
> > > > > RIGHT POSITION AND HAS NO DIP AT ALL.I HAVE CHECKED THE
BAND
> > > > SWITCH TO
> > > > > MAKE SURE IT IS NOT OUT OF ALIGNMENT AND IT IS FINE WITH
> BOTH
> > > > SPINDLES
> > > > > LINING UP PERFECTLY.
> > > > > ANY IDEAS
> > > > > 73 KEN
> > > > > G3SDW
> > > > > TORQUAY SOUTH DEVON
> > > > > UK....
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --
> > > > ------------
> > > > >
> > > > >
> > > > > No virus found in this incoming message.
> > > > > Checked by AVG Free Edition.
> > > > > Version: 7.1.405 / Virus Database: 268.12.3/445 - Release
> > Date:
> > > > 9/11/06
> > > > >
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >

> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9456. 830s / CW / Tuning Q's

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 11:39:30 UTC
From: Darwin, Keith
Topic: 9456 Message: 9456

As I begin to use the 830s more, I find it is a wonderful rig for SSB. Good filtering (though not as steep as the skirts in my Omni V), nice notch, good speech processor and a great sounding receiver - yep, a real winner for SSB.

But for CW I find it is not so hot. I'll learn to live with the relay-based semi-break-in as I have no other choice. I'd like to have an offset of 600 Hz rather than 800 Hz (the manual says 800 Hz, I wonder what it really is). Is the RX-TX offset on CW easy to change?

Is the sidetone pitch easy to change? Is it set to 800 Hz to use as a tuning aid?

These questions all stem from the same basic complaint. It's much tougher to tune a CW transceiver to the right frequency than it is to tune an SSB transceiver. The best I've seen is my old TenTec Omni C. It had a momentary button called Zero Beat. Press the button and the RX offset is set to zero. At the same time the IF is shifted to to center around 0 Hz. Press the button, tune until the CW tone is zero, release the button and you're on freq.

I suppose the technique in the 830s is the same as my K2. Turn on the sidetone (assuming it is set to the same as the RX-TX offset) and spin the VFO until his pitch matches your sidetone.

I'd be happier about it if I liked the sound of the sidetone in the 830s but it sounds choppier than the TX signal does.

- Keith KD1E -

[Non-text portions of this message have been removed]

9457. Re: [TS-520_820_530_830] 830s / CW / Tuning Q's

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 13:39:54 UTC
From: Rick May
Topic: 9456 Message: 9457

Hi Keith,

The newer Kenwood YK-88C(N)-1 CW filters have a 800hz different center frequency than the older YK-88C(N) filters for the 830S. If you drop one of these in your 830S, the offset will be zerot and you can tune 600 hz off and use your IF shift to comensate for receive. You would have to remove the newer filters from the boards they are mounted on, but the pin configuration is the same as the older filters. I have not tried this but it should work unless there is a major flaw in my reasoning....Some of my other projects I have attempted contained this 'flaw' but I always learned something...

Rick KC0HH

"Darwin, Keith" <keith.darwin@goodrich.com> wrote: As I begin to use the 830s more, I find it is a wonderful rig for SSB.
Good filtering (though not as steep as the skirts in my Omni V), nice notch, good speech processor and a great sounding receiver - yep, a real winner for SSB.

But for CW I find it is not so hot. I'll learn to live with the relay-based semi-break-in as I have no other choice. I'd like to have an offset of 600 Hz rather than 800 Hz (the manual says 800 Hz, I wonder what it really is). Is the RX-TX offset on CW easy to change?

Is the sidetone pitch easy to change? Is it set to 800 Hz to use as a tuning aid?

These questions all stem from the same basic complaint. It's much tougher to tune a CW transceiver to the right frequency than it is to tune an SSB transceiver. The best I've seen is my old TenTec Omni C. It had a momentary button called Zero Beat. Press the button and the RX offset is set to zero. At the same time the IF is shifted to to center around 0 Hz. Press the button, tune until the CW tone is zero, release the button and you're on freq.

I suppose the technique in the 830s is the same as my K2. Turn on the sidetone (assuming it is set to the same as the RX-TX offset) and spin the VFO until his pitch matches your sidetone.

I'd be happier about it if I liked the sound of the sidetone in the 830s but it sounds choppier than the TX signal does.

- Keith KD1E -

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9458. Update KA2HHB TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 13:44:00 UTC
From: Ruben Echevarria
Topic: 9458 Message: 9458

Hello Walt, once again let me thank you for all the help that you have given me. The TS830S (Gold) is basically working a whole lot better then it was. It's receiving nicely now, meter is not pegging. But I'm still getting no ALC. I read the posting from VK5YKO and basically this is what is going on with my radio. I ordered C74 & L36 parts from East Coast and debating whether or not I should replace those 2 numbers. Is this a common problem?

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

[Non-text portions of this message have been removed]

9459. RE: [TS-520_820_530_830] 830s / CW / Tuning Q's

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 13:49:11 UTC
From: Darwin, Keith
Topic: 9456 Message: 9459

Does using a filter with a different offset actually change the offset between RX and TX? If I put in a filter with a 600 Hz center freq and then tune signal to that freq is my TX dead on that station or is there still an 800 Hz delta between TX and RX frequencies?

In my K2 and in my Omni V the TX-RX offset is a separate adjustment (to the BFO?) that is independent of the center freq of the crystal filters.

In this regard, I really liked my Century 22. Set RIT to 0, tune the signal for zero hertz to put your TX on freq, then turn the RIT to choose your listening tone and/or peak the signal in the narrow audio filter. Simple, straightforward, obvious.

- Keith KD1E -

-----Original Message-----

The newer Kenwood YK-88C(N)-1 CW filters have a 800hz different center frequency than the older YK-88C(N) filters for the 830S. If you drop one of these in your 830S, the offset will be zerot and you can tune 600 hz off and use your IF shift to comensate for receive. *snip*
Rick KC0HH

9460. Re: [TS-520_820_530_830] 830s / CW / Tuning Q's

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 13:56:36 UTC
From: Rick May
Topic: 9456 Message: 9460

Yikes, I shouldn't type messages without my glasses on ...The typos are painful to read later....

Rick KC0HH

"Darwin, Keith" <keith.darwin@...> wrote:
But for CW I find it is not so hot. I'll learn to live with the relay-based semi-break-in as I have no other choice. I'd like to have an offset of 600 Hz rather than 800 Hz (the manual says 800 Hz, I wonder what it really is). Is the RX-TX offset on CW easy to change?

Is the sidetone pitch easy to change? Is it set to 800 Hz to use as a tuning aid?

These questions all stem from the same basic complaint. It's much tougher to tune a CW transceiver to the right frequency than it is to tune an SSB transceiver. The best I've seen is my old TenTec Omni C. It had a momentary button called Zero Beat. Press the button and the RX offset is set to zero. At the same time the IF is shifted to to center around 0 Hz. Press the button, tune until the CW tone is zero, release the button and you're on freq.

I suppose the technique in the 830s is the same as my K2. Turn on the sidetone (assuming it is set to the same as the RX-TX offset) and spin the VFO until his pitch matches your sidetone.

I'd be happier about it if I liked the sound of the sidetone in the 830s but it sounds choppier than the TX signal does.

- Keith KD1E -

[Non-text portions of this message have been removed]

73' Rick KC0HH
Lamar, Colorado

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9461. RE: [TS-520_820_530_830] 830s / CW / Tuning Q's

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 15:17:02 UTC
From: Rick May
Topic: 9456 Message: 9461

Hi Keith

If I understand how the 830S works, the radio itself shifts 800 hz in freq when it transmits in CW modes while the newer Kenwoods transmit on whatever freq. your VFO is tuned to. If my line of reasoning is correct, you could use the newer filters to null out this shift, tune for zero beat and use your RIT for whatever tone you wish on the 830S.

73' Rick KC0HH

"Darwin, Keith" <keith.darwin@...> wrote: -Snip-
In this regard, I really liked my Century 22. Set RIT to 0, tune the
signal for zero hertz to put your TX on freq, then turn the RIT to
choose your listening tone and/or peak the signal in the narrow audio
filter. Simple, straightforward, obvious.

- Keith KD1E -

-----Original Message-----

The newer Kenwood YK-88C(N)-1 CW filters have a 800hz different center
frequency than the older YK-88C(N) filters for the 830S. If you drop
one of these in your 830S, the offset will be zerot and you can tune
600 hz off and use your IF shift to comensate for receive. *snip*
Rick KC0HH

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9462. From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 20:56:14 UTC
From: Jerry
Topic: 8136 Message: 9462

I have a question...I have a KENWOOD/TRIO SSB W DIGITAL readout...TS-820 S SSB transceiver..I hooked it up to a G5RV and a VERSA TUNER II by MFJ..

Forgive me here...new at this...do you need the REMOTE VFO-820 to operate or can I use the SSB radio by alone....it does calibrate great on WWV 15,000 Khz...well....for AM MODE Alone...no SSB...is the TUN position acceptable...

BTW...does anyone have a cable for the VFO-820....just incase..thank you..Jerry DE KE7GGV-73...

thank you again...

take care

9463. Re: [TS-520_820_530_830] From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 21:41:24 UTC
From: Dennis Windle
Topic: 8136 Message: 9463

Jerry;
You only need the VFO-820 if you want to operate in split frequency ie Xmit on one Freq & Rcv on another. The dummy plug is required if you don't have a VFO-820 to operate with the internal VFO only

D.Windle
----- Original Message -----
From: Jerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 14, 2006 4:56 PM
Subject: [TS-520_820_530_830] From KE7GGV

I have a question...I have a KENWOOD/TRIO SSB W DIGITAL readout...TS-820 S SSB transceiver..I hooked it up to a G5RV and a VERSA TUNER II by MFJ..

Forgive me here...new at this...do you need the REMOTE VFO-820 to operate or can I use the SSB radio by alone....it does calibrate great on WWV 15,000 Khz...well....for AM MODE Alone...no SSB...is the TUN position acceptable...

BTW...does anyone have a cable for the VFO-820....just incase..thank you..Jerry DE KE7GGV-73...

thank you again...

take care

[Non-text portions of this message have been removed]

9464. Re: From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 21:48:44 UTC
From: Ellen R
Topic: 8136 Message: 9464

Hi Jerry,

I don't quite understand your question, but I'll try to answer it with regards to what I think you mean. By the way, I have a TS-820, the first year edition of your radio. Here goes:

1. Do you need the remote VFO to use your 820S? - nope, the TS-820S has a built-in (internal) VFO. The VFO-820 is mainly for use if you want to work split (in other words transmit on one freq., and receive on another that's further away, than using your TS-820S alone, with it's RIT would allow [about +/-5 KHz away from your transmit frequency]). This is very common on 40m, where most non-US & Candian hams cannot operate above 7100 KHz, and as a result work Phone below 7100 KHz, US hams can't work Phone any lower than 7150 KHz (or 7225 KHz if you're a General). So they work split (transmit in the US Phone band, and listen below 7100 KHz). The VFO can be used to control either the transmit freq., or the receive freq. BUT, you CANNOT use it to work crossband (in other words transmit on 20m, and listen on 40m). Bweleive it or not, some people do prefer to use the external VFO, instead of the built-in one. When I was at the Univ. of WI in the 80s, and used to use W9YT (the Univ. of WI ham club station), we ahd a few mwmbers who preferred to use the club's TS-830S, with the external VFo, instead of the internal VFO, even when they were not working split.

2. Can you work AM with the TS-820S? - no you can't. There is a European-only version of the TS-820S called the TS-820M, that will work AM, but unless you're willing to make some major internal mods to your TS-820S (which I've been told, aren't worth doing), you're stuck with SSB & CW. You would have to unbalance the balanced modulator used to help generate SSB. There are other tings that would also need to be done. All the TUNE position is for, is tuning up. Basically it lowers plate current while you're peaking the grid/drive, to minimize stress to 6146B finals. The Tune postion is basically lower output CW.

73 & I hope this clarifies things for you,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jerry" <ke7ggv@...> wrote:
>
> I have a question...I have a KENWOOD/TRIO SSB W DIGITAL readout...TS-
> 820 S SSB transceiver..I hooked it up to a G5RV and a VERSA TUNER II by
> MFJ..

>
> Forgive me here...new at this...do you need the REMOTE VFO-820 to
> operate or can I use the SSB radio by alone....it does calibrate
great
> on WWV 15,000 Khz...well....for AM MODE Alone...no SSB...is the TUN
> position acceptable...
>
> BTW...does anyone have a cable for the VFO-820....just
incase..thank
> you..Jerry DE KE7GGV-73...
>
> thank you again...
>
> take care
>

9465. Re: [TS-520_820_530_830] Re: From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 00:07:13 UTC
From: John Harp
Topic: 8136 Message: 9465

Well put Ellen.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9466. Re: [TS-520_820_530_830] From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 00:14:47 UTC
From: John Harp
Topic: 8136 Message: 9466

Jerry I looked into tihs myself as you are now. I have the 830 S and remote digital VFO 230 with the 5 memories. I found it better to go get a boat anchor or FT-101 for the AM stuff. Suddenly the neighbors became very intimately known with me. Before it was just dits and dahs to them. Then the donald duck talk. Well needless to say I got rid of the AM Boatanchor When they recited my QSO word 4 word veratim.

So that's my experience I relate to you, of course remember an experience is something you get when you didn't get what you wanted. Emptor Caveat.

Jerry <ke7ggv@...> wrote:
I have a question...I have a KENWOOD/TRIO SSB W DIGITAL readout...TS-820 S SSB transceiver..I hooked it up to a G5RV and a VERSA TUNER II by MFJ..

Forgive me here...new at this...do you need the REMOTE VFO-820 to operate or can I use the SSB radio by alone....it does calibrate great on WWV 15,000 Khz...well....for AM MODE Alone...no SSB...is the TUN position acceptable...

BTW...does anyone have a cable for the VFO-820....just incase..thank you..Jerry DE KE7GGV-73...

thank you again...

take care

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9467. Thank you DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-14 23:38:01 UTC
From: Jerry
Topic: 9467 Message: 9467

Dear Group and Ellen...

Sorry to confuse...YES it is a BIG help...wow thank you...very much...I do appreciate it very much..73-THX-DE KE7GGV...take care all....

9468. For Sale - TS-830S with accessories

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 02:06:42 UTC
From: Ellen R
Topic: 9468 Message: 9468

The radio club in my hometown of Manitowoc, WI (MANCORAD ARC, callsign W9DK), is cleaning out some of their old gear. They allowed clubmembers (and me as a former officer and club member), to bid on the gear they were selling (some of you may recall me mentioning last month, that I won a Swan 270B in this bidding). BUT, some items remained unsold. I have received permission from both Bill, K0ZL, and MANCORAD, to offer one of them for sale to members of this group. Here is the item:

For Sale:

Kenwood TS-830S, with MC-50 mic, and YG-445CN CW filter. The asking price is $400-$450. The unit was tried out recently on the air, and is in good working order. The CW filter will neeed to be installed. Cosmetically, it is in good shape, except for a small dent in the upper right corner of the cabinet. The price does not include shipping (you'd have to pay for the shipping cost) If you're interested, a photo of the rig can be supplied by MANCORAD. Interested members should contact Fred, W6BSF, the MANCORAD club president. His e-mail is fredandpat@...

73,
Ellen

9469. Re: [TS-520_820_530_830] From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 10:06:23 UTC
From: n9wb
Topic: 8136 Message: 9469

You do not need the remote VFO but you do need the jumper plug to be installed in the VFO socket. If you have no jumper plug, you can connect pins 8 and 9 of the VFO socket with a piece of a standard size paper clip. If you have no CW filter, you can receive AM in TUN, but USB or LSB will be better.

If your rig is a standard TS-820s, it has no AM mode.

Vy 73, Walt N9WB

----- Original Message -----
From: Jerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 14, 2006 3:56 PM
Subject: [TS-520_820_530_830] From KE7GGV

I have a question...I have a KENWOOD/TRIO SSB W DIGITAL readout...TS-820 S SSB transceiver..I hooked it up to a G5RV and a VERSA TUNER II by MFJ..

Forgive me here...new at this...do you need the REMOTE VFO-820 to operate or can I use the SSB radio by alone....it does calibrate great on WWV 15,000 Khz...well....for AM MODE Alone...no SSB...is the TUN position acceptable...

BTW...does anyone have a cable for the VFO-820....just incase..thank you..Jerry DE KE7GGV-73...

thank you again...

take care

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.3/447 - Release Date: 9/13/06

[Non-text portions of this message have been removed]

9470. QST review on the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 11:13:33 UTC
From: max_ve3tmt
Topic: 9470 Message: 9470

By chance would any of the members have the May 1981 issue of QST that reviewed the TS830? Would it be possible to get a copy? I'm not a member of the ARRL so I can't get it there.

Any help appreciated.

Max VE3TMT

9471. Re: [TS-520_820_530_830] Update KA2HHB TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 12:21:02 UTC
From: n9wb
Topic: 9458 Message: 9471

Ruben:

First, we need to establish what is going on with the ALC. If there is actually no ALC, and the processor is off, the output will have no control while speaking. As you advance the mike gain the output will go higher and then flat top going into distortion much faster than it will on the working rig.

So what we need to decide
Is there really no ALC?
Is there ALC but it is not showing on the meter in the ALC position?
Is there ALC but the drive is so low that it will not read.
Does the ALC meter move at all with the mike gain fully up and speaking loudly into the mike?

I cannot locate the post from VK5YKO.

Vy 73, Walt N9WB

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Thursday, September 14, 2006 8:44 AM
Subject: [TS-520_820_530_830] Update KA2HHB TS830S

Hello Walt, once again let me thank you for all the help that you have given me.
The TS830S (Gold) is basically working a whole lot better then it was. It's receiving
nicely now, meter is not pegging. But I'm still getting no ALC. I read the posting from
VK5YKO and basically this is what is going on with my radio. I ordered C74 & L36
parts from East Coast and debating whether or not I should replace those 2 numbers.
Is this a common problem?

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
http://www.moparts.org/moparts/picture/members/6/Ruben.html

9472. Which mode do you use mostly?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 11:57:47 UTC
From: Darwin, Keith
Topic: 9472 Message: 9472

When using your Kenwood hybrid HF rig, which mode do you operate in mostly? CW or SSB?

I haven't had mine long enough to establish any pattern.

With my main rig (K2) I operate 100% CW which is pretty obvious once you realize my rig doesn't have the SSB option :-)

73!

- Keith -

[Non-text portions of this message have been removed]

9473. Re: Which mode do you use mostly?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 14:17:52 UTC
From: Ellen R
Topic: 9472 Message: 9473

Hi Keith,

I've used my TS-820 for both CW & SSB. I've been a ham for 28 years (and active [with the exception of 2001-2004] since 1982). The lack of break-in keying is no hassle for me; I never used it in the early days, and still don't use it, on even my FT-897D (I find break-in keying irritating and distracting, unless I'm contesting at 30WPM). The same holds true for the 800 Hz sidetone - no biggie for me. This was pretty much standard back in the old days. When I still had the RF-Feedback Master (The IC-703 Plus), and needed more power for SKCC QSOs, I used my TS-820.

But, I mainly use my TS-820 for SSB. It has good SSB audio. Also, while I like to do non-contest CW QSOs occasionally for a change of pace, I've once again decided that if I seriously want to shoot the breeze, I prefer to do it with phone, due to it's higher information exchange rate. Sure, the jerk operator percentage goes up with phone, but most operators are pretty courteous, as long as you're not on that zoo know as 75m (which has been that way for a lonfg time). Some of my most interesting QSOs have been on phone. I remember Christmas Eve 1996, having a ragchew on 160m LSB, with an oldtimer, who it turned it, used to fly B-29s in WW2. His stories were wery interesting to say the least. Getting to that level of chatting on CW, would have taken 2-3 times longer (or maybe 1.5 times longer if 35 WPM CW had been used, with lots of abbreviations).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith" <keith.darwin@...> wrote:
>
> When using your Kenwood hybrid HF rig, which mode do you operate in
> mostly? CW or SSB?
>
> I haven't had mine long enough to establish any pattern.
>
> With my main rig (K2) I operate 100% CW which is pretty obvious once you
> realize my rig doesn't have the SSB option :-)
>
> 73!
>
> - Keith -
>
>

> [Non-text portions of this message have been removed]
>

9474. Re: [TS-520_820_530_830] Update KA2HHB TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 15:10:00 UTC
From: Joan de vk5kyo
Topic: 9458 Message: 9474

Hi Walt and others.

This is with reference to any TS830 suffering low TX power, and a lack
of ALC particularly on the 18 MHz position.
Bands either side of 18 MHz, may also suffer a slight reduction in
maximum output power. The likely cause for this ailment is a shorted L36
and possible also a failed C74 (as was in my case).
My theory is that the L36 failure is likely due to a faulty drive tube,
drawing excessive plate current. Following the failure of L36, it is
possible that C74 fails due to exposed RF form the driver since the
choke is now shorted.

For anyone suspecting the failure of L36 in particular, just follow the
simple instruction below without pulling apart any boards.

With the radio off. measure Ohms from RF board connector 7, most rear
pin to the top of the 470KOhm 1/2 watt resistor lead. That will soon
tell you if it is OK.
Expect to get a reading of around 4 Ohms. Anything much less than that
is considered faulty. If L36 is faulty, then I would replace C74 also as
a precaution.

For those that like statistics, so far the faulty count for L36 stands
at 3.
By the way, it would be a good idea to tune all coils again as other
bands will have been loaded to some degree. (That is if someone has had
a go at peaking the coils with the faulty part in it)

And this is for Walt. You probably couldnt find the link because the
call sign wasnt quite right.
For those interested in the link, here it is
http://groups.yahoo.com/group/TS-520_820_530_830/files/REPAIRS%20AND%20ALIGNMENT/TS%20830%
20notes%20from%20VK5KYO

Best regards
Joan VK5KYO

n9wb wrote:

> Ruben:
>
> First, we need to establish what is going on with the ALC. If there is
> actually no ALC, and the processor is off, the output will have no control
> while speaking. As you advance the mike gain the output will go higher and
> then flat top going into distortion much faster than it will on the
> working
> rig.

>
> So what we need to decide
> Is there really no ALC?
> Is there ALC but it is not showing on the meter in the ALC position?
> Is there ALC but the drive is so low that it will not read.
> Does the ALC meter move at all with the mike gain fully up and speaking
> loudly into the mike?
>
> I cannot locate the post from VK5YKO.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Ruben Echevarria
> To: Yahoo Groups
> Sent: Thursday, September 14, 2006 8:44 AM
> Subject: [TS-520_820_530_830] Update KA2HHB TS830S
>
> Hello Walt, once again let me thank you for all the help that you have
> given
> me.
> The TS830S (Gold) is basically working a whole lot better then it was.
> It's
> receiving
> nicely now, meter is not pegging. But I'm still getting no ALC. I read the
> posting from
> VK5YKO and basically this is what is going on with my radio. I ordered
> C74 &
> L36
> parts from East Coast and debating whether or not I should replace those 2
> numbers.
> Is this a common problem?
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> exracer1@... <mailto:exracer1%40verizon.net>
> http://www.moparts.org/moparts/picture/members/6/Ruben.html
> <http://www.moparts.org/moparts/picture/members/6/Ruben.html>
>
>
>
>----------
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.405 / Virus Database: 268.12.4/448 - Release Date: 14/09/2006
>
>

[Non-text portions of this message have been removed]

9475. RE: [TS-520_820_530_830] Which mode do you use mostly?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-15 18:51:58 UTC
From: Sean.....He's the cat that won't cop out
Topic: 9472 Message: 9475

My rig is a 520s. I run 99% CW.

-Sean
N9FQ

>From: "Darwin, Keith" <keith.darwin@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] Which mode do you use mostly?
>Date: Fri, 15 Sep 2006 07:57:47 -0400
>
>When using your Kenwood hybrid HF rig, which mode do you operate in
>mostly? CW or SSB?
>
>I haven't had mine long enough to establish any pattern.
>
>With my main rig (K2) I operate 100% CW which is pretty obvious once you
>realize my rig doesn't have the SSB option :-)
>
>73!
>
>- Keith -
>
>
>[Non-text portions of this message have been removed]
>

9476. Re: [TS-520_820_530_830] QST review on the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 09:22:04 UTC
From: n9wb
Topic: 9470 Message: 9476

Max:
I am sorry but the ARRL does not put archives of most of their articles on line. They sell CD's of these and perhaps someone has one for that year. I personally think that they should put old articles on a server, at least for members or if not, for people who were members that year. I have been a life member since the mid 70's.

Which coil did you find was the culprit and rewound, the main plate choke or the smaller one under it ?

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 15, 2006 6:13 AM
Subject: [TS-520_820_530_830] QST review on the TS830

By chance would any of the members have the May 1981 issue of QST that reviewed the TS830? Would it be possible to get a copy? I'm not a member of the ARRL so I can't get it there.

Any help appreciated.

Max VE3TMT

9477. Re: QST review on the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 12:06:53 UTC
From: max_ve3tmt
Topic: 9470 Message: 9477

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> I am sorry but the ARRL does not put archives of most of their
articles on
> line.

I had many offers of help Walt and received the article. As for your
question below I think it is for someone other than myself.

Max

> Which coil did you find was the culprit and rewound, the main
plate choke or
> the smaller one under it ?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@...m
> Sent: Friday, September 15, 2006 6:13 AM
> Subject: [TS-520_820_530_830] QST review on the TS830
>
>
> By chance would any of the members have the May 1981 issue of QST
that
> reviewed the TS830? Would it be possible to get a copy? I'm not a
> member of the ARRL so I can't get it there.
>
> Any help appreciated.
>
> Max VE3TMT
>

9478. Re: my previous on Audio ...My Radio is The TS530S forgot to say!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 16:51:05 UTC
From: wayfound2000
Topic: 9478 Message: 9478

Its a TS-530S....
Pete G4HAK

9479. Thanks and also prob with Audio Distortion

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 16:48:22 UTC
From: wayfound2000
Topic: 9479 Message: 9479

Just to say thanks to all for help with advice on the Wide filtering and also I have had no probs with Slow power up since tightening up all the boards. Could Anyone help with the Speaker Audio as it seems a bit distorted on peaks of the voices on SSB LSB. I DO keep the RF gain back but it still sounds a bit "raspy" any ideas? Thanks to all again
Pete G4HAK

9480. Fw: TS-520S PO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 18:57:03 UTC
From: jsloss
Topic: 9480 Message: 9480

Just finished restoring a 520S - full alignment, tubes up to snuff etc. Power output may be too good to be true.

PO, in CW mode, as measured with a Bird 43 and 120VAC input under load (verified w/ DVM) runs 125 (give or take a couple) on all bands. Ip runs 250MA give or take 5.

This may be normal PO for good RCA 6146's but then again someone may have added a SG mod for more oooomph! How do you confirm if the mod has been installed as I wish to undue it. Thanks,

Joe k7mks

[Non-text portions of this message have been removed]

9481. C71 on RF Board TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 21:29:51 UTC
From: Ruben Echevarria
Topic: 9481 Message: 9481

Need value or part number on RF Board X44-1360-00
I show a C71 on board that fell apart when I touched it, but the service manual doesn't show it on the list for that board.
Schematic shows C71 as 047 capacitor but I'm not sure if it's correct?
This is for the TS830S.

TNX Ruben...KA2HHB

[Non-text portions of this message have been removed]

9482. Re: C71 on RF Board TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 22:11:44 UTC
From: Gordon
Topic: 9481 Message: 9482

Yes,
.047 here Ruben for C71.
I just swapped out my C106 Cap and I'm getting "Great Audio" reports
with my 830 . I installed a .0015 Mylar cap.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> Need value or part number on RF Board X44-1360-00
> I show a C71 on board that fell apart when I touched it, but the
service manual doesn't show it on the list for that board.
> Schematic shows C71 as 047 capacitor but I'm not sure if it's correct?
> This is for the TS830S.
>
>
> TNX Ruben...KA2HHB
>
> [Non-text portions of this message have been removed]
>

9483. Re: [TS-520_820_530_830] Re: QST review on the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 15:46:26 UTC
From: Peter A Markavage
Topic: 9470 Message: 9483

I'm not sure where you're looking Walt, but QST has all their product reviews on line from 1980 on. TS-830 review is there listed as May, 1981. All in PDF form. These are available on the "members only" pages.

But then you could also go to "technical information pages", http://www.arrl.org/tis/tismenu.html
and find many QST articles available for download and/or review. However, many of them also are "members only".
Here's an example of the section on AM operation:
http://www.arrl.org/tis/info/am.html

Lots of great stuff is available on the ARRL pages.

Pete, wa2cwa

On Sat, 16 Sep 2006 12:06:53 -0000 "max_ve3tmt" <max_ve3tmt@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
> >
> > Max:
> > I am sorry but the ARRL does not put archives of most of their
> articles on
> > line.
>
> I had many offers of help Walt and received the article. As for your
>
> question below I think it is for someone other than myself.
>
> Max
>
> > Which coil did you find was the culprit and rewound, the main
> plate choke or
> > the smaller one under it ?
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: max_ve3tmt
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, September 15, 2006 6:13 AM
> > Subject: [TS-520_820_530_830] QST review on the TS830
> >
> >
> > By chance would any of the members have the May 1981 issue of QST
>
> that

> > reviewed the TS830? Would it be possible to get a copy? I'm not a
> > member of the ARRL so I can't get it there.
> >
> > Any help appreciated.
> >
> > Max VE3TMT

9484. Re: [TS-520_820_530_830] Re: C71 on RF Board TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-16 22:24:47 UTC
From: Ruben Echevarria
Topic: 9481 Message: 9484

Thanks Gordon, I was doing the C74 & L36 replacement on my board and C71 fell apart.
Looks like I'm headed in the right direction. Ok on your swap that'll be next once I get this going.
Between you & Walt I've been able to do quite a bit. Feels good too. hi hi.
Only thing is the eyes are not what they used to be... But I think I can drive a Pro-Mod.

Thanks To The Whole Group ..... 73 Ruben

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 16, 2006 6:11:44 PM
Subject: [TS-520_820_530_830] Re: C71 on RF Board TS830S

Yes,
.047 here Ruben for C71.
I just swapped out my C106 Cap and I'm getting "Great Audio" reports
with my 830 . I installed a .0015 Mylar cap.

73,
Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Need value or part number on RF Board X44-1360-00
> I show a C71 on board that fell apart when I touched it, but the
service manual doesn't show it on the list for that board.
> Schematic shows C71 as 047 capacitor but I'm not sure if it's correct?
> This is for the TS830S.
>
>
> TNX Ruben...KA2HHB
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9485. Re: TS-830 audio distortion 21-28MHz

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 14:11:01 UTC
From: daveb0910
Topic: 9334 Message: 9485

Thanks to all those who have responded to my original request for help.

I have now had time to make some more investigations:

The VFO 230 cable was not the original (thanks to those who sent detailed descriptions) and did not seem to have the internal shielded cable for the hot VFO lead. So, I wired in an extra external screened cable just to carry the VFO signal. This had a positive effect, in that the SSB power output went up on 10 and 12m to the expected range and the mic gain was nearer the normal setting. Also, the worst of the effects (flashing display) disappeared.

I have noted some new intermittant ALC problems since I repaired the cable (I'd never had these problems before) with ALC not working and audio gain inactive- these I will investigate further but they may not be directly related to the VFO cable.

However, the real test is if the RF-type feedback in the audio has been cured. This is harder for me to check on my own, but it does seem improved if I monitor the audio. To be sure I will need to make a few QSOs on 10, 12, 15m. Of course, these bands are just about dead at the moment, so I may have to wait until 2007!.

Thanks again for this excellent group and for your help.

I'll report back again to say if the cure is complete.

Best wishes

Dave, G3ZQH

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton" <wmilton@...> wrote:
>
> Dave,
>
> My VFO cable has the following markings: On each connector there is a
> circle with three small ovals inside, on the cable is HIRAKAWA 1989, there
> is some kind of trade mark in front of HIRAKAWA. I hope this helps.
>
> Walt, KA2NJF (The Other Walt)
> Psalm 1
> A Child of the living God

> Walt
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
> Sent: Sunday, September 10, 2006 3:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS-830 audio distortion 21-28MHz
>
>
>
> Dave, Pin 1 of the cable is Shielded by pin 7 , according to the VFO
> Schematic.
> My VFO original Cable is Gray in Color and about 2 feet long.
> I don't think the original cable is available any longer.
> My cable has NO writing on it but does have a trademark or something
> that is a circle with three ellipticals inside of it on each
connector.
> Gordon
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, "daveb0910"
> <heather.dave@> wrote:
> >
> > Gordon
> > The cable I have came with the VFO when I bought it used- it
> > has "MADE LW GERMANY" on the plug. So, I guess maybe it is not
> > original. I will check inside for shielded wire. Do you know if
the
> > original cables or equivalent are available?
> > Thanks
> > Dave
> >
> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%
40yahoogroups.com>
> 830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Dave,
> > > Are you using an ORIGINAL VFO cable ? The reason I ask is, the
> > > original cable has 1 wire inside it that is shielded.
> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%
40yahoogroups.com>
> 830@yahoogroups.com, "daveb0910"
> > > <heather.dave@> wrote:
> > > >

> > > > Hello Walt
> > > > I tried removing the external speaker (I have an SP-230 with
> > internal
> > > > DSP unit fitted) but this had no effect. However, thinking
along
> > > > similar lines to your suggestion, I tried removing the
external
> > VFO
> > > > 230 connection, and this did seem to make a difference. With
VFO
> > > > cable removed the audio sounded much better and with no
> > distortion.
> > > > Also the flashing display I had before on max power transmit
> > > > disappeared. So, the external VFO may well be part or all of
the
> > > > problem.
> > > >
> > > > Do you have any suggestions why this is happening and how I
can
> > cure
> > > > the problem? Could it be simply a bad connection or perhaps a
> > > > problem with internal shielding? Does this explain why it
> > happens
> > > > only on 21MHz and above?
> > > >
> > > > This is big progress on a problem I've been trying to solve
for
> > about
> > > > 9 months. Many thanks for setting me off in the right
direction.
> > > >
> > > > 73
> > > > Dave, G3ZQH
> > > >
> > > >
> > > >
> > >
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9486. RE: [TS-520_820_530_830] TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 15:16:17 UTC
From: Ron Hauser
Topic: 7936 Message: 9486

Continuation of my slow troubleshooting, I got to spend some more time on the workbench this weekend.

Walt asked if I had a carrier that I could hear on a nearby receiver when in transmit: Yes. I took an SWL radio and listened, when transmitting in Tune position I can hear the carrier on 30m (also on 20m and 40m).

Clif suggested no load, so look further downstream, possibly bandswitch. I put my RF probe on the connection point where the drive signal wire goes into the final board. When switching to transmit in tune position:

20m peaks up to ~25v then settles down to ~3v
40m peaks up to ~25v then settles down to ~3v
30m rises smoothly to 5v with no peak.

What I want to do now is to see if the drive signal is actually getting to the tube, which I think would verify that the bandswitch is the problem. However, I am being very very cautious poking at the bottom of the finals because of the high voltage. After careful scrutiny of the board drawing and schematic I think I am expecting to see the drive signal on pin 5 of the final socket. Can anyone verify before I poke a probe into a high voltage circuit?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Saturday, August 26, 2006 9:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Greetings Kenwood Gurus. About two months ago I was working along with Joe Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO. Bill helped get me set up with a VTVM, I eventually got an RF probe made, and finally I have done some testing.

The problem:

I have a TS830S that I got from the previous owner about a year ago. There is no drive at all on 30m, no matter the position of the drive control knob (also no RF out). All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've

tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal.

Based on Joan's problem with a missing band, I tested C74 and L36 on the RF board. I believe that both these components are ok -- L36 showed right at the 4 ohms level Joan was looking for, and C74 is not shorted and doesn't look burned or anything.

I then took Joe's advice and attempted to measure the RF voltage on the grid of the driver tube. I believe this is a promising path, but I must first verify that I measured on the _correct_ pin. So. I have the radio sitting right side up on the bench with the covers off, the RF board is exposed and the driver tube is right there in the middle. I'm looking down at the tube/socket from above -- actually I am also looking at the board layout diagram in the service manual, which is the same orientation of course. I'm a little fuzzy on the "proper" numbering order of the pins. But anyway in this orientation the gap with no pins is at 9 oclock. There is a pin at 8 oclock, one at 7 oclock, one at five oclock. After staring at the diagrams and thinking about it for a while, I believe the pin at 7 oclock is the one that I want. So I put the rf probe on that pin and with the rig in tune, I switched to send and indeed I got RF.

Question #1. Am I on the right pin (or if not what am I measuring!?!)

Question #2. If I am on the right pin, I have an interesting result, because the RF voltage is not the same. At 14110 kHz I got 1.5 V. At 7110 kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Wednesday, June 07, 2006 11:05 PM
To: 'joe sloss'
Cc: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried

lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are having. I think I've deleted some of your earlier comments on what was wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?
>
> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.
>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]
>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power

>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one
>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a
>> copper trace and silver connector held together with a tin rivit. This
>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

Yahoo! Groups Links

Yahoo! Groups Links

9487. 12by7a (again)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 11:36:48 UTC
From: elamcreekranch
Topic: 9487 Message: 9487

My perfect solution to no drive response by replacing the 12by7a tube did not last long. After transmitting for perhaps an hour, the same problem returned. Problem being no response to peaking the drive--meter just fades off to nothing.

On the first failure, I presumed that since the 12by7a was perhaps 25 years old, it just failed from age, but now that the new one failed so soon, I am wondering if some component associated with this tube is the real root cause. Heater switch checks out okay, bias has been less than 60 ma, etc.

any and all ideas to check are appreciated!

rltusch kg5iq

9488. Repost VK5KYO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 17:22:13 UTC
From: Ruben Echevarria
Topic: 9488 Message: 9488

I am taking the liberty of posting this.
This is good information from VK5KYO.
N9WB
Hi everybody
For those interested in my original posting of the message, read below.
I am assuming that no other person has seen this problem before, except Bill-K5GCW who got in contact with me and explained he has the same problem with his 830, even after spending some considerable time cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your lucky, it may be the same problem.
A recent posting by another Bill-WB5DX, who cleaned the switches with de-oxid?? and has gone backwards in the process, may also be interested in reading this, because I think Bill may have disturbed the rivet connections of the wafers, or maybe some cleaning material is lodged in the switch as it is difficult to get in there, or he may have even bend some of the contacts. Its not hard to do.
Anyway
I did as what most of you would do and that is to remove the RF board, number each wafer, desolder each one and clean the switches and while it's out, you also solder each wafer contact to the track of the switch. This requires a lot of patience and a bit of skill to reassemble and realign all the switches before soldering them back on the board.
I found a number of contacts which were loose. The rivets were not doing their job anymore. The material must have shrunk a little. This is why you have to solder them, if you want the 830 to be reliable.
Now in Australia I heard of a saying, that whenever something gets serviced (be it electronics or otherwise), they say that "it has gone in for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I could relate to that. 2 of the switches had a liberal coating of a thick, greasy substance, and the RF board had a coating of what appears to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited measurements because the way it's mounted, and access to the track side of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced and with excitement put it together. I improved the output on 21 MHz considerably, but still not much happening on 18.
If you study the circuit, you will wonder how this capacitor could have

an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone nearly short. It measured 30uH with a large D factor. The original value is 470uH.
Needless to say, I was very excited to have found it long last. I put it all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a good outcome.
I have learned a lot from this repair. One of them is that the circuit from Kenwood has mistakes in it. One that led me on the wrong path for some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem from all the symptoms it gave and I would have never guessed the faulty components. When you check everything methodically and logically over and over and over again and it still dont work, you know your in a bit of trouble.
So in the end, finding the problem, was it a fluke, lucky maybe? I dont know. What I did learn, was to make no assumptions, lots of patience, be tenacious, dont doubt what you have learned in the past, how the circuit works and I can go on. I feel great about it and someone more experienced may have done it in a tenth of my time, but you can never put a price on what you learn. I am sure the owner of the rig will be very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you readers that may develop this fault later on in the rigs life, you will save some time repairing it and get it back on air asap.
73 from down under
Joan VK5KYO

Be advised I also had to replace C71 as it fell apart upon my touching it....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

9489. Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 17:53:41 UTC
From: Stephen Davis
Topic: 9489 Message: 9489

Hello All,

This is a little off topic but while I am waiting for approval to join the Antenna Group, I thought I would post here. After all, the antenna is attached to a Kenwood TS-820S!!

This past Friday I put an inverted vee antenna up about 25 feet. The center mast is a wooden 2X2 that attaches to the side of my patio. The ends come down and attach to my fence. On Sunday, my neighbor came over and complained that his satellite TV had stopped working and when he call Direct TV they told him my antenna was blocking the signals. I took a look at his TV and sure enough, he was not getting any signal. I then took down the antenna and he still was not getting a signal. He is going to call Direct TV and have them come out and check his system. In the meantime I will keep my antenna on the ground.

I don't think it was my antenna that caused the problem, but it was an odd coincidence. That got me to thinking and my question is "Would it be possible for the 100 watts from my Kenwood to somehow cause harm to his satellite TV system, like shutting it down or overloading the satellite dish components? The dipole wire comes within about 20 feet of his dish. I only run on forty and twenty meters. Any thoughts would be appreciated.

In any case, I am the loser here because regardless of the cause of my neighbor's satellite system trouble, as in his mind he will always blame my antenna. Of course Direct TV blaming me initially for the problem did not help!

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

9490. Re: [TS-520_820_530_830] Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 19:42:17 UTC
From: David Rust
Topic: 9489 Message: 9490

Steve, its hard to say what happened. 20 feet is pretty close. I have a Davis weather station on my tower and anytime I key up the TS530S, (or any other HF radio) the weather station goes bonkers. I saw this morning it said the heat index was 640 degrees. Has your neighbor tried a hard reset on his receiver. I have to do that occasionally for no apparent reason. My dish is probably within 10 feet of the inverted vee with no apparent problems. Good luck, don't let them tell you its your problem.
Drust 73 W0DLR

[Non-text portions of this message have been removed]

9491. Re: [TS-520_820_530_830] TS830S No Drive on 30m

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 18:16:04 UTC
From: Max Harelik
Topic: 7936 Message: 9491

"I am being very very cautious poking at the bottom of the finals because of the high voltage." <snip>

Wise man. I still have a scar on my arm where I took stored plate cap voltage on a TS-530S (luckily, between my finger tips and forearm), as I carelessly tried to reach around and adjust resting bias with the cage cover off. I knew better, but was in a hurry. It certainly got my attention. Burned a 1/8" hole through my shirt and about the same distance down into my arm. I was lucky to have the opportunity to re-learn this lesson without any more damage than that. Be careful. Take nothing for granted.

73,
Max, K5OVW

9492. Re: [TS-520_820_530_830] 12by7a (again)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 18:04:44 UTC
From: Max Harelik
Topic: 9487 Message: 9492

Since there's really no such thing as a "new" 12BY7 anymore, I'd suggest trying another tube first, before you start digging around in the radio's innards. Occam's razor generally applies; i.e., the simplest, most logical solution usually prevails. (I've got a TS-440 locked in diagnostic mode, but so, far, I haven't found a simple, logical solution for that problem. Not SMT inside, but close.) GL.

73,
Max, K5OVW

elamcreekranch wrote:

> My perfect solution to no drive response by replacing the 12by7a tube
> did not last long. After transmitting for perhaps an hour, the same
> problem returned. Problem being no response to peaking the drive--
> meter just fades off to nothing.
>
> On the first failure, I presumed that since the 12by7a was perhaps 25
> years old, it just failed from age, but now that the new one failed so
> soon, I am wondering if some component associated with this tube is the
> real root cause. Heater switch checks out okay, bias has been less
> than 60 ma, etc.
>
> any and all ideas to check are appreciated!
>
> rltusch kg5iq
>
>

[Non-text portions of this message have been removed]

9493. Re: [TS-520_820_530_830] Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 19:20:39 UTC
From: Max Harelik
Topic: 9489 Message: 9493

My 6BTV Newtronics Hustler is within 10' of my Dish Network dish. I monitor my transmitted signal with the TV on to make sure that I'm not causing any problems with neighbors' equipment. I run about 600w with my TS-530s driving an SB-200. I can see just a little bit of interfence on 80, and nothing on 40, 17, 30 & 10. 20 m blitzes the TV (even with just the 530), but nothing fails (don't know what the problem is yet w/20, so I limit my operation to off-times for the present.) I've got low pass filters between my Kenwood and the amp, and between my tuner and the antenna.

Your neighbor's equipment failure was probably just conicidence. After his dish service remedies his problem, you might coordinate a radio-transmission/TV-reception time with him to demonstrate (a) your concern & cooperation, and (b) that his problem was not caused by your equipment. Also, having done that, provide him with a high-pass filter (available at RS, etc.) to further buffer any remaining question. (He'd probably have more conficence in a manufactured filter, since he's already suspicious of "amateur" activity.)

I used this strategy successfuly some time ago while living in an apartment complex in Austin, TX. Kept a box of filters at the ready, and had posted a note on the complex bulletin board as to my normal operating hours, operating frequencies, and the availability of the filters. Never had a moment's problem after the initial set-up.

Good luck, Steve.

73,
Max, K5OVW

Stephen Davis wrote:

> Hello All,
>
> This is a little off topic but while I am waiting for approval to join
> the Antenna Group, I thought I would post here. After all, the antenna is
> attached to a Kenwood TS-820S!!
>
> This past Friday I put an inverted vee antenna up about 25 feet. The
> center mast is a wooden 2X2 that attaches to the side of my patio. The
> ends
> come down and attach to my fence. On Sunday, my neighbor came over and
> complained that his satellite TV had stopped working and when he call
> Direct
> TV they told him my antenna was blocking the signals. I took a look at his
> TV and sure enough, he was not getting any signal. I then took down the

> antenna and he still was not getting a signal. He is going to call
> Direct TV
> and have them come out and check his system. In the meantime I will
> keep my
> antenna on the ground.
>
> I don't think it was my antenna that caused the problem, but it was an
> odd coincidence. That got me to thinking and my question is "Would it be
> possible for the 100 watts from my Kenwood to somehow cause harm to his
> satellite TV system, like shutting it down or overloading the
> satellite dish
> components? The dipole wire comes within about 20 feet of his dish. I only
> run on forty and twenty meters. Any thoughts would be appreciated.
>
> In any case, I am the loser here because regardless of the cause of my
> neighbor's satellite system trouble, as in his mind he will always
> blame my
> antenna. Of course Direct TV blaming me initially for the problem did not
> help!
>
> Thanks
>
> Steve K7QHU
>

9494. Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 20:46:56 UTC
From: Gordon
Topic: 9489 Message: 9494

Steve,
I have DirecTV with two dishes and two Tivo units. My dishes are
within 20 feet of my Vertical and My Force 12 Antenna. I sometimes run
as much as 600 Watts output, and I have NO problems with my Directv
Signals or equipment. I agree with the fellow that suggested your
neighbor do a Hard reset on his Directv receiver box. Also, his LNB
could have gone bad on his dish and if so, he'll get NO signal.
The people you talk to on the phone at DirectV do Not really know
much about the Hardware they install in my experiences.
I hardly think it is due to your Antenna.
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis"
<sdavis@...> wrote:
>
> Hello All,
>
> This is a little off topic but while I am waiting for approval
to join
> the Antenna Group, I thought I would post here. After all, the
antenna is
> attached to a Kenwood TS-820S!!
>
> This past Friday I put an inverted vee antenna up about 25
feet. The
> center mast is a wooden 2X2 that attaches to the side of my patio.
The ends
> come down and attach to my fence. On Sunday, my neighbor came over and
> complained that his satellite TV had stopped working and when he
call Direct
> TV they told him my antenna was blocking the signals. I took a look
at his
> TV and sure enough, he was not getting any signal. I then took down the
> antenna and he still was not getting a signal. He is going to call
Direct TV
> and have them come out and check his system. In the meantime I will
keep my
> antenna on the ground.
>
> I don't think it was my antenna that caused the problem, but
it was an
> odd coincidence. That got me to thinking and my question is "Would
it be
> possible for the 100 watts from my Kenwood to somehow cause harm to his
> satellite TV system, like shutting it down or overloading the

satellite dish
> components? The dipole wire comes within about 20 feet of his dish.
I only
> run on forty and twenty meters. Any thoughts would be appreciated.
>
> In any case, I am the loser here because regardless of the
cause of my
> neighbor's satellite system trouble, as in his mind he will always
blame my
> antenna. Of course Direct TV blaming me initially for the problem
did not
> help!
>
> Thanks
>
> Steve K7QHU
>
>
>
> [Non-text portions of this message have been removed]
>

9495. Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 18:54:27 UTC
From: maddogm715
Topic: 9489 Message: 9495

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis"
<sdavis@...> wrote:
>
> Hello All,
>
> This is a little off topic but while I am waiting for
approval to join
> the Antenna Group, I thought I would post here. After all, the
antenna is
> attached to a Kenwood TS-820S!!
>
> This past Friday I put an inverted vee antenna up about 25
feet. The
> center mast is a wooden 2X2 that attaches to the side of my
patio. The ends
> come down and attach to my fence. On Sunday, my neighbor came
over and
> complained that his satellite TV had stopped working and when he
call Direct
> TV they told him my antenna was blocking the signals. I took a
look at his
> TV and sure enough, he was not getting any signal. I then took
down the
> antenna and he still was not getting a signal. He is going to call
Direct TV
> and have them come out and check his system. In the meantime I
will keep my
> antenna on the ground.
>
> I don't think it was my antenna that caused the problem, but
it was an
> odd coincidence. That got me to thinking and my question
is "Would it be
> possible for the 100 watts from my Kenwood to somehow cause harm
to his
> satellite TV system, like shutting it down or overloading the
satellite dish
> components? The dipole wire comes within about 20 feet of his
dish. I only
> run on forty and twenty meters. Any thoughts would be
appreciated.
>
> In any case, I am the loser here because regardless of the
cause of my
> neighbor's satellite system trouble, as in his mind he will always

blame my
> antenna. Of course Direct TV blaming me initially for the problem
did not
> help!
>
> Thanks
>
> Steve K7QHU
>
>
>
> [Non-text portions of this message have been removed]
>
I transmit with 100-600 watts on many hf frequencies within 20 ft of my Direct TV antenna with no ill effects. I use a trap vertical as well as a 350ft end fed long wire. Part of the long wire is directly over the dish. While it may be possible to cause damage to the Direct TV receiver, not very likley. Kinda sucks though. Like the time my gauges quit working on my Chevy truck. They said it was the low band radio. Good luck.

9496. Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 23:26:41 UTC
From: Gordon
Topic: 9489 Message: 9496

As a Master Auto Tech for 30 + years, The problem with your gauges was most likely the Ground. Chevy (actually any GM) trucks had a real problem with the instrument panel ground for years.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "maddogm715" <brown715@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@> wrote:
> >
> > Hello All,
> >
> > This is a little off topic but while I am waiting for approval to join
> > the Antenna Group, I thought I would post here. After all, the antenna is
> > attached to a Kenwood TS-820S!!
> >
> > This past Friday I put an inverted vee antenna up about 25 feet. The
> > center mast is a wooden 2X2 that attaches to the side of my patio. The ends
> > come down and attach to my fence. On Sunday, my neighbor came over and
> > complained that his satellite TV had stopped working and when he call Direct
> > TV they told him my antenna was blocking the signals. I took a look at his
> > TV and sure enough, he was not getting any signal. I then took down the
> > antenna and he still was not getting a signal. He is going to call Direct TV
> > and have them come out and check his system. In the meantime I will keep my
> > antenna on the ground.
> >
> > I don't think it was my antenna that caused the problem, but it was an
> > odd coincidence. That got me to thinking and my question is "Would it be
> > possible for the 100 watts from my Kenwood to somehow cause harm to his
> > satellite TV system, like shutting it down or overloading the

> satellite dish
> > components? The dipole wire comes within about 20 feet of his
> dish. I only
> > run on forty and twenty meters. Any thoughts would be
> appreciated.
> >
> > In any case, I am the loser here because regardless of the
> cause of my
> > neighbor's satellite system trouble, as in his mind he will always
> blame my
> > antenna. Of course Direct TV blaming me initially for the problem
> did not
> > help!
> >
> > Thanks
> >
> > Steve K7QHU
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> I transmit with 100-600 watts on many hf frequencies within 20 ft of
> my Direct TV antenna with no ill effects. I use a trap vertical as
> well as a 350ft end fed long wire. Part of the long wire is
> directly over the dish. While it may be possible to cause damage to
> the Direct TV receiver, not very likley. Kinda sucks though. Like
> the time my gauges quit working on my Chevy truck. They said it was
> the low band radio. Good luck.
>

9497. Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 01:35:22 UTC
From: max_ve3tmt
Topic: 9489 Message: 9497

Steve,

Your incident only show the arrogance that some people have when it comes to amateur radio operators. You could put up an antenna and not transmit on it at all and I bet you would still get blamed for something. As soon as the neighbors see the antenna and they have problems with their TV reception it's natural to blame the ham. First of all, a wire antenna cannot block a satellite signal, unles of course your antenna wire is 3 feet in diameter and it runs right through his dishs line of sight. If the satellite rep told me that, I'd tell him to go back to school and learn something.
As far as your neighbor is concerned, if your antenna isn't over his property line and he thinks your antenna is causing the problems, I'd let him move his dish. It appears that he is already blaming you so let him move his antenna. My R7 vertical is within 20 feet of my neighbors dish and he tells me he has no problems at all. Ham frequencies and satellite frequencies are so far apart in the spectrum, you shouldn't be causing any interference at all. Unless he bought his receiver at the dollar store!

Good luck,

Max VE3TMT

9498. Re: Repost VK5KYO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 02:37:36 UTC
From: Clif
Topic: 9488 Message: 9498

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> I am taking the liberty of posting this.
> This is good information from VK5KYO.
> N9WB
> Hi everybody
> For those interested in my original posting of the message, read below.
> I am assuming that no other person has seen this problem before, except
> Bill-K5GCW who got in contact with me and explained he has the same
> problem with his 830, even after spending some considerable time
> cleaning the wafer switches.
> Well if you read this Bill, I have found the problem(s). If your lucky,
> it may be the same problem.
> A recent posting by another Bill-WB5DX, who cleaned the switches with
> de-oxid?? and has gone backwards in the process, may also be interested
> in reading this, because I think Bill may have disturbed the rivet
> connections of the wafers, or maybe some cleaning material is lodged in
> the switch as it is difficult to get in there, or he may have even bend
> some of the contacts. Its not hard to do.
> Anyway
> I did as what most of you would do and that is to remove the RF board,
> number each wafer, desolder each one and clean the switches and while
> it's out, you also solder each wafer contact to the track of the switch.
> This requires a lot of patience and a bit of skill to reassemble and
> realign all the switches before soldering them back on the board.
> I found a number of contacts which were loose. The rivets were not doing
> their job anymore. The material must have shrunk a little. This is why
> you have to solder them, if you want the 830 to be reliable.
> Now in Australia I heard of a saying, that whenever something gets
> serviced (be it electronics or otherwise), they say that "it has gone in
> for a grease and oil change".
> It's a funny expression but when I pulled apart this wafer switch, I
> could relate to that. 2 of the switches had a liberal coating of a
> thick, greasy substance, and the RF board had a coating of what appears
> to be oil. It was a big cleaning job.
> But all the cleaning and soldering made absolutely no scrap of
> difference. Still very little output on 18MHz, and no ALC at all.
> I lost track of the number of times I pulled that RF board out.
> For those that havent worked on these, you can make only limited
> measurements because the way it's mounted, and access to the track side
> of the board while it is switched on is near impossible.
> I knew where the problem area was, except everything appears to be
> checking out. eg component values, connections, switches etc etc.
> Then I found a bypass capacitor C74 which measured 500 Ohms I replaced

> and with excitement put it together. I improved the output on 21 MHz
> considerably, but still not much happening on 18.
> If you study the circuit, you will wonder how this capacitor could have
> an affect on the output. (It all makes sense later on)
> Then tonight, I finally had a breakthrough. I have been so close for
> days but missed it.
> The neighbouring component to C74 is a RF choke L36. This choke has gone
> nearly short. It measured 30uH with a large D factor. The original value
> is 470uH.
> Needless to say, I was very excited to have found it long last. I put it
> all back together and aligned the RF board again and output on 18 MHz
> was finally achieved. Output on 21 MHz was also restored. All in all, a
> good outcome.
> I have learned a lot from this repair. One of them is that the circuit
> from Kenwood has mistakes in it. One that led me on the wrong path for
> some time until I checked the circuit board against circuit.
> You know, I could have sworn it was going to be a band switch problem
> from all the symptoms it gave and I would have never guessed the faulty
> components. When you check everything methodically and logically over
> and over and over again and it still dont work, you know your in a bit
> of trouble.
> So in the end, finding the problem, was it a fluke, lucky maybe? I dont
> know. What I did learn, was to make no assumptions, lots of patience, be
> tenacious, dont doubt what you have learned in the past, how the circuit
> works and I can go on. I feel great about it and someone more
> experienced may have done it in a tenth of my time, but you can never
> put a price on what you learn. I am sure the owner of the rig will be
> very happy too-No charge.
> I know the story is a bit long winded, but I hope that for some of you
> readers that may develop this fault later on in the rigs life, you will
> save some time repairing it and get it back on air asap.
> 73 from down under
> Joan VK5KYO
>
>
> Be advised I also had to replace C71 as it fell apart upon my
touching it....Ruben KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
>
> [Non-text portions of this message have been removed]
>

Reading this makes me wonder how many other hams have missed the "trap
door" under the AF unit that allows access to the bottom of the RF
unit. This is good on the 530/830 radios. Remove the AF unit screws
and tilt it over the middle of the radio. Remove the 4 screws and the
plate and there is the bottom of the RF unit, ready for measurement or

repair. The bandswitch can even be replaced without removing the RF unit.

Because of the documented problems with the rivets and traces when a cleaning doesn't help I replace the bandswitch.

On cleaning the bandswitch. DO NOT USE TUNER CLEANER. I turn the radio up on it's side with a rag under it. I then flood the bandswitch with brake cleaner (friendly auto parts store stuff) while turning the switch. Be careful not to get it on anything else, especially painted surfaces. I then blow dry it with air and very carefully apply De-Oxit to the wafers. This will cure 90% of the problems. Any others are usually loose rivets and I replaced the bandswitch.

Clif

9499. RE: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 06:43:31 UTC
From: Stephen Davis
Topic: 9489 Message: 9499

All,

Thanks for all the replies regarding the possibility of my antenna interfering with my neighbors Direct TV. This evening I went over to my neighbor and suggested he power down his cable box, unplug it, then plug it back in. He grumbled a little bit about waiting for the technician, but then said they wouldn't be out for a week, so decided to give it a try. Well, when the cable box was plugged back in and powered up, everything was fine and he was back in business. Did he thank me.... not really. He said in three years he had never had to reset the system and insisted that my antenna was the problem. Oh well... But on a positive note, I told him I was going to put the antenna back up at half the height and see if it caused any problems and then if it did not, I would continue to raise the height a little everyday until it was back to the maximum height. I assured him I would immediately take it back down if any problems occurred. He agreed that that was reasonable, so we shall see.

Thanks again to all that responded and thanks to the moderators for letting this slightly off topic thread exist. If no one objects I will post in a week or so just to let everyone know how this story ends.

73's

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of max_ve3tmt
Sent: Sunday, September 17, 2006 7:35 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Antenna Question

Steve,

Your incident only show the arrogance that some people have when it comes to amateur radio operators. You could put up an antenna and not transmit on it at all and I bet you would still get blamed for something. As soon as the neighbors see the antenna and they have problems with their TV reception it's natural to blame the ham. First of all, a wire antenna cannot block a satellite signal, unles of course your antenna wire is 3 feet in diameter and it runs right through his dishs line of sight. If the satellite rep told me that, I'd tell him to go back to school and learn something.
As far as your neighbor is concerned, if your antenna isn't over his property line and he thinks your antenna is causing the problems, I'd let him move his dish. It appears that he is already blaming you so

let him move his antenna. My R7 vertical is within 20 feet of my neighbors dish and he tells me he has no problems at all. Ham frequencies and satellite frequencies are so far apart in the spectrum, you shouldn't be causing any interference at all. Unless he bought his receiver at the dollar store!

Good luck,

Max VE3TMT

[Non-text portions of this message have been removed]

9500. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 08:29:23 UTC
From: n9wb
Topic: 9489 Message: 9500

This all sounds good but a word of caution:

It would have been best not to agree to not put the antenna back if it caused a problem. We are not responsible for problems that are not out fault. An example is harmonic or spurious radiation/Vs fundamental overload. If you interfere with an electronic device, we will use a television as an example, it can be caused by your rig improperly transmitting an emission on the television station's frequency. This would be your fault. However, if because of poor design, the television receiver is being affected by your legal signal on the frequencies you are licensed to operate on, it is not your responsibility.

If you verbally agree to remove your antenna if the problem re-occurs, this can be interpreted as a verbal contract or an admission of guilt and you can be held to it.

I once had a problem that a particular low angle DX antenna that disrupted a television belonging to a neighbor a couple of blocks from my station. The problem was not my fault. He was a sports fan. He was having a group over for the Superbowel. He wanted me to promise that I would not operate during the Superbowel. I avoided making that promise, and even transmitted a couple of times but only for a short tome during a commercial break. He watched his Superbowel and I avoided anything that could be considered an admission of guilt or a verbal contract not to operate. I finally moved that particular antenna, but did not admit that it had anything to do with his complaints.

As far as the satellite guy, years ago we had problems with TV repairmen and cable TV companies telling customers that problems they did not want to mess with were the fault of the nearest Amateur. A letter from an attorney often put a quick stop to this. If you do not have a friend who is an attorney, perhaps the ARRL can help.

It is OK to try to get along with your neighbors and cooperate, but don't make commitments. Just do it.

Vy 73, Walt N9WB

----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 18, 2006 1:43 AM
Subject: RE: [TS-520_820_530_830] Re: Antenna Question

All,

Thanks for all the replies regarding the possibility of my antenna interfering with my neighbors Direct TV. This evening I went over to my neighbor and suggested he power down his cable box, unplug it, then plug it back in. He grumbled a little bit about waiting for the technician, but then said they wouldn't be out for a week, so decided to give it a try. Well, when the cable box was plugged back in and powered up, everything was fine and he was back in business. Did he thank me.... not really. He

said in three years he had never had to reset the system and insisted that my antenna was the problem. Oh well... But on a positive note, I told him I was going to put the antenna back up at half the height and see if it caused any problems and then if it did not, I would continue to raise the height a little everyday until it was back to the maximum height. I assured him I would immediately take it back down if any problems occurred. He agreed that that was reasonable, so we shall see.

Thanks again to all that responded and thanks to the moderators for letting this slightly off topic thread exist. If no one objects I will post in a week or so just to let everyone know how this story ends.

73's

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of max_ve3tmt
Sent: Sunday, September 17, 2006 7:35 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Antenna Question

Steve,

Your incident only show the arrogance that some people have when it comes to amateur radio operators. You could put up an antenna and not transmit on it at all and I bet you would still get blamed for something. As soon as the neighbors see the antenna and they have problems with their TV reception it's natural to blame the ham. First of all, a wire antenna cannot block a satellite signal, unles of course your antenna wire is 3 feet in diameter and it runs right through his dishs line of sight. If the satellite rep told me that, I'd tell him to go back to school and learn something.
As far as your neighbor is concerned, if your antenna isn't over his property line and he thinks your antenna is causing the problems, I'd let him move his dish. It appears that he is already blaming you so let him move his antenna. My R7 vertical is within 20 feet of my neighbors dish and he tells me he has no problems at all. Ham frequencies and satellite frequencies are so far apart in the spectrum, you shouldn't be causing any interference at all. Unless he bought his receiver at the dollar store!

Good luck,

Max VE3TMT

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.4/449 - Release Date: 9/15/06

[Non-text portions of this message have been removed]

9501. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 08:50:05 UTC
From: n9wb
Topic: 9489 Message: 9501

I should add that the problem may be caused by your signal getting into the wiring from the house to the dish. It would crash the system and require a reboot. Again, this is not your fault, but would be a deficiency in the satellite system design. It could even be that it is not installed correctly or has improper shielding in some of the cables.
Perhaps adding distance from your antenna to the dish will help the problem but do not commit yourself.
The satellite dealer may rather blame you that resolve his system deficiency. Or he may be clueless as to what to do.

Vy 73, Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 18, 2006 3:29 AM
Subject: Re: [TS-520_820_530_830] Re: Antenna Question

This all sounds good but a word of caution:

It would have been best not to agree to not put the antenna back if it caused a problem. We are not responsible for problems that are not out fault. An example is harmonic or spurious radiation/Vs fundamental overload. If you interfere with an electronic device, we will use a television as an example, it can be caused by your rig improperly transmitting an emission on the television station's frequency. This would be your fault. However, if because of poor design, the television receiver is being affected by your legal signal on the frequencies you are licensed to operate on, it is not your responsibility.

If you verbally agree to remove your antenna if the problem re-occurs, this can be interpreted as a verbal contract or an admission of guilt and you can be held to it.

I once had a problem that a particular low angle DX antenna that disrupted a television belonging to a neighbor a couple of blocks from my station. The problem was not my fault. He was a sports fan. He was having a group over for the Superbowel. He wanted me to promise that I would not operate during the Superbowel. I avoided making that promise, and even transmitted a couple of times but only for a short tome during a commercial break. He watched his Superbowel and I avoided anything that could be considered an admission of guilt or a verbal contract not to operate. I finally moved that particular antenna, but did not admit that it had anything to do with his complaints.

As far as the satellite guy, years ago we had problems with TV repairmen and cable TV companies telling customers that problems they did not want to mess with were the fault of the nearest Amateur. A letter from an attorney often put a quick stop to this. If you do not have a friend who is an attorney, perhaps the ARRL can help.

It is OK to try to get along with your neighbors and cooperate, but don't make commitments. Just do it.

Vy 73, Walt N9WB

----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 18, 2006 1:43 AM
Subject: RE: [TS-520_820_530_830] Re: Antenna Question

All,

Thanks for all the replies regarding the possibility of my antenna interfering with my neighbors Direct TV. This evening I went over to my neighbor and suggested he power down his cable box, unplug it, then plug it back in. He grumbled a little bit about waiting for the technician, but then said they wouldn't be out for a week, so decided to give it a try. Well, when the cable box was plugged back in and powered up, everything was fine and he was back in business. Did he thank me.... not really. He said in three years he had never had to reset the system and insisted that my antenna was the problem. Oh well... But on a positive note, I told him I was going to put the antenna back up at half the height and see if it caused any problems and then if it did not, I would continue to raise the height a little everyday until it was back to the maximum height. I assured him I would immediately take it back down if any problems occurred. He agreed that that was reasonable, so we shall see.

Thanks again to all that responded and thanks to the moderators for letting this slightly off topic thread exist. If no one objects I will post in a week or so just to let everyone know how this story ends.

73's

Steve K7QHU

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of max_ve3tmt
Sent: Sunday, September 17, 2006 7:35 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Antenna Question

Steve,

Your incident only show the arrogance that some people have when it comes to amateur radio operators. You could put up an antenna and not transmit on it at all and I bet you would still get blamed for something. As soon as the neighbors see the antenna and they have problems with their TV reception it's natural to blame the ham. First of all, a wire antenna cannot block a satellite signal, unles of course your antenna wire is 3 feet in diameter and it runs right through his dishs line of sight. If the satellite rep told me that, I'd tell him to go back to school and learn something.
As far as your neighbor is concerned, if your antenna isn't over his property line and he thinks your antenna is causing the problems, I'd

let him move his dish. It appears that he is already blaming you so let him move his antenna. My R7 vertical is within 20 feet of my neighbors dish and he tells me he has no problems at all. Ham frequencies and satellite frequencies are so far apart in the spectrum, you shouldn't be causing any interference at all. Unless he bought his receiver at the dollar store!

Good luck,

Max VE3TMT

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.4/449 - Release Date: 9/15/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.4/449 - Release Date: 9/15/06

[Non-text portions of this message have been removed]

9502. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-17 22:15:29 UTC
From: David Rust
Topic: 9489 Message: 9502

The people you talk to on the phone at DirectV do Not really know
much about the Hardware they install in my experiences.

The ones I have talked to sounded to me like they were in Bangladesh! They are for the most part clueless about equipment issues.
73 Dave W0DLR

[Non-text portions of this message have been removed]

9503. Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 02:38:38 UTC
From: w5rkl
Topic: 9489 Message: 9503

One thing you didn't say about your neighbor saying your antenna is blocking his sat signal was whether it was physically within the "line of sight" of the satellite and his dish. I was assume it's no where near the "line of sight" of your neighbor's satellite and dish antenna.

First, a single 2x2 simply will not cause this problem. In order for a 2x2 to cause this problem it would have to be placed between the LMB and the dish itself. Now six 2x6's, mounted side by side and placed on the dish itself, would most likely cause lost of signal, but not a single 2x2.

Second, your inverted vee is not causing your neighbor's problem either. As ridiculous as it may sound, I once read a post some time ago that said a ham's neighbor believed the ham's antenna was robbing his satellite signal causing fuzzy/snowy pictures, even when the ham was not on the air.

Satellite signals are in the SHF range, far removed from normal everyday ham frequencies in the HF range.

A satellite system has basiclly 3 pieces of equipment, minus the coax; the dish, an LMB mounted on the dish arm pointing toward the dish not the satellite, and the satellite receiver. A satellite dish that has been properly aimed/pointed at the satellite, the received signal is reflected by the dish back towards the LMB. The LMB receives the satellite signal where it is converted to a much lower frequency within the LMB. The converted signal is then fed out of the LMB, through coax, to the satellite receiver.

There are a few things that will cause lose or a reducetion in signal strength of a satellite signal; bird nests on the LMB, snow, heavy rain (down pours), or a huge flock of birds. There is a line of sight setting, both vertically and horizontally, that is required for the dish to be set to in order to receive the satellite signal. Any movement outside of this line of sight will cause lost or reduce signal strength of satellite signal. Of course there is one more thing; the satellite television bill has not been paid causing satellite television service to be terminated.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...> wrote:
>

> Hello All,
>
> This is a little off topic but while I am waiting for approval
to join
> the Antenna Group, I thought I would post here. After all, the
antenna is
> attached to a Kenwood TS-820S!!
>
> This past Friday I put an inverted vee antenna up about 25
feet. The
> center mast is a wooden 2X2 that attaches to the side of my patio.
The ends
> come down and attach to my fence. On Sunday, my neighbor came over and
> complained that his satellite TV had stopped working and when he
call Direct
> TV they told him my antenna was blocking the signals. I took a look
at his
> TV and sure enough, he was not getting any signal. I then took down the
> antenna and he still was not getting a signal. He is going to call
Direct TV
> and have them come out and check his system. In the meantime I will
keep my
> antenna on the ground.
>
> I don't think it was my antenna that caused the problem, but
it was an
> odd coincidence. That got me to thinking and my question is "Would
it be
> possible for the 100 watts from my Kenwood to somehow cause harm to his
> satellite TV system, like shutting it down or overloading the
satellite dish
> components? The dipole wire comes within about 20 feet of his dish.
I only
> run on forty and twenty meters. Any thoughts would be appreciated.
>
> In any case, I am the loser here because regardless of the
cause of my
> neighbor's satellite system trouble, as in his mind he will always
blame my
> antenna. Of course Direct TV blaming me initially for the problem
did not
> help!
>
> Thanks
>
> Steve K7QHU
>
>
>
> [Non-text portions of this message have been removed]

>

9504. Neutralization - Dip vs peak power?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 12:31:32 UTC
From: Darwin, Keith
Topic: 9504 Message: 9504

I went through my 830s and did an alignment per the manual. All went smooth and easy except for the adjustment of the neutralization.

I tried to use an external receiver to neutralize the finals. The results were useless. I ended up adjusting the neutralization by making the grid current dip and peak output occur at the same point.

Later, after I found the RF probe for my DMM, I went back in and adjusted the neutralizing cap per the book. That was easy as pie, but now my rig's peak output and the dip on the plate current don't happen at the same time. If I dip the plate current to say 200 mA, the peak output may occur at maybe 280 or 300 mA.

I went back and adjusted the neutralizing cap to put it partway between the two settings.

What's the right thing to do?

Last night I worked a guy on 40 meter CW. Turns out he was running a TS-830s. We had a nice 830s 2-way.

- Keith KD1E -

[Non-text portions of this message have been removed]

9505. Re: [TS-520_820_530_830] Repost VK5KYO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 13:41:04 UTC
From: John Harp
Topic: 9488 Message: 9505

Thanks for making sure it's in the archive Reuben.

Ruben Echevarria <ka2hhb_2000@...> wrote: I am taking the liberty of posting this.
This is good information from VK5KYO.
N9WB
Hi everybody
For those interested in my original posting of the message, read below.
I am assuming that no other person has seen this problem before, except
Bill-K5GCW who got in contact with me and explained he has the same
problem with his 830, even after spending some considerable time
cleaning the wafer switches.
Well if you read this Bill, I have found the problem(s). If your lucky,
it may be the same problem.
A recent posting by another Bill-WB5DX, who cleaned the switches with
de-oxid?? and has gone backwards in the process, may also be interested
in reading this, because I think Bill may have disturbed the rivet
connections of the wafers, or maybe some cleaning material is lodged in
the switch as it is difficult to get in there, or he may have even bend
some of the contacts. Its not hard to do.
Anyway
I did as what most of you would do and that is to remove the RF board,
number each wafer, desolder each one and clean the switches and while
it's out, you also solder each wafer contact to the track of the switch.
This requires a lot of patience and a bit of skill to reassemble and
realign all the switches before soldering them back on the board.
I found a number of contacts which were loose. The rivets were not doing
their job anymore. The material must have shrunk a little. This is why
you have to solder them, if you want the 830 to be reliable.
Now in Australia I heard of a saying, that whenever something gets
serviced (be it electronics or otherwise), they say that "it has gone in
for a grease and oil change".
It's a funny expression but when I pulled apart this wafer switch, I
could relate to that. 2 of the switches had a liberal coating of a
thick, greasy substance, and the RF board had a coating of what appears
to be oil. It was a big cleaning job.
But all the cleaning and soldering made absolutely no scrap of
difference. Still very little output on 18MHz, and no ALC at all.
I lost track of the number of times I pulled that RF board out.
For those that havent worked on these, you can make only limited
measurements because the way it's mounted, and access to the track side
of the board while it is switched on is near impossible.
I knew where the problem area was, except everything appears to be
checking out. eg component values, connections, switches etc etc.
Then I found a bypass capacitor C74 which measured 500 Ohms I replaced
and with excitement put it together. I improved the output on 21 MHz

considerably, but still not much happening on 18.
If you study the circuit, you will wonder how this capacitor could have an affect on the output. (It all makes sense later on)
Then tonight, I finally had a breakthrough. I have been so close for days but missed it.
The neighbouring component to C74 is a RF choke L36. This choke has gone nearly short. It measured 30uH with a large D factor. The original value is 470uH.
Needless to say, I was very excited to have found it long last. I put it all back together and aligned the RF board again and output on 18 MHz was finally achieved. Output on 21 MHz was also restored. All in all, a good outcome.
I have learned a lot from this repair. One of them is that the circuit from Kenwood has mistakes in it. One that led me on the wrong path for some time until I checked the circuit board against circuit.
You know, I could have sworn it was going to be a band switch problem from all the symptoms it gave and I would have never guessed the faulty components. When you check everything methodically and logically over and over and over again and it still dont work, you know your in a bit of trouble.
So in the end, finding the problem, was it a fluke, lucky maybe? I dont know. What I did learn, was to make no assumptions, lots of patience, be tenacious, dont doubt what you have learned in the past, how the circuit works and I can go on. I feel great about it and someone more experienced may have done it in a tenth of my time, but you can never put a price on what you learn. I am sure the owner of the rig will be very happy too-No charge.
I know the story is a bit long winded, but I hope that for some of you readers that may develop this fault later on in the rigs life, you will save some time repairing it and get it back on air asap.
73 from down under
Joan VK5KYO

Be advised I also had to replace C71 as it fell apart upon my touching it....Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9506. Re: [TS-520_820_530_830] Re: QST review on the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 13:39:11 UTC
From: John Harp
Topic: 9470 Message: 9506

Besides the product review from the QST archives which was mentioned in another reply by the group. Some interesting specifications were referenced here on the group not to long ago about different radios. If that is of interest to you for comparison of different radios on topics like selectivity and the like. If that is what you're after look back in the archives. It may take some time but somone did bring those specs in with the reference to the source as a web adress.
Also, E-Ham has an opinions section which some owner operators have placed thier comments about the 830. You'd get to hear what others experienced with the rig.
Lastly, the TS-830 carries a compilation of not just the E-Ham reviews but also mods and other interesting materials pertaining to the TS-830. Look around Page 30.
Hope these things may be useful to what you're looking for.

max_ve3tmt <max_ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> I am sorry but the ARRL does not put archives of most of their
articles on
> line.

I had many offers of help Walt and received the article. As for your question below I think it is for someone other than myself.

Max

> Which coil did you find was the culprit and rewound, the main
plate choke or
> the smaller one under it ?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 15, 2006 6:13 AM
> Subject: [TS-520_820_530_830] QST review on the TS830
>
>
> By chance would any of the members have the May 1981 issue of QST
that
> reviewed the TS830? Would it be possible to get a copy? I'm not a
> member of the ARRL so I can't get it there.
>
> Any help appreciated.
>
> Max VE3TMT

>

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9507. Re: [TS-520_820_530_830] Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 14:16:21 UTC
From: John Harp
Topic: 9489 Message: 9507

Two things I'd like to recommend to you.

Fist, try running with a TVI filter. I use RF-Inqiury common mode and Harmonic Rejection types. this helps keep a clean signal.

Second, what was you're ground? Sometimes a ground can make or break an interference problem. Some people in apartments run a counterpoise wire around the floors for ground substitutes. Some have made the mistake of trying to use the using the AC line ground which can cause alot of headaches. Or worse yet, the same ground that the cable-TV is on.

Third, how close is the radio equipment running to the cable equipment. Maybe placement of the transmitter to a different spot is what you need.

Now I don't promise any or all of these ideas will necessarily solve the problem. But between my experiences in an apartment with my 830 and what others have Encountered, these ideas were some things to try that made some difference. After all 100 watts in a small area can be a challenge.

One person on the group that as I recall has a TS-820 in an apartment is Ellen R. You may try to ask her about this experience and any suggestions. The problem may not even be related to you. There's alot of factors that come in to play.

Stephen Davis <sdavis@...> wrote:
Hello All,

This is a little off topic but while I am waiting for approval to join
the Antenna Group, I thought I would post here. After all, the antenna is
attached to a Kenwood TS-820S!!

This past Friday I put an inverted vee antenna up about 25 feet. The
center mast is a wooden 2X2 that attaches to the side of my patio. The ends
come down and attach to my fence. On Sunday, my neighbor came over and
complained that his satellite TV had stopped working and when he call Direct
TV they told him my antenna was blocking the signals. I took a look at his
TV and sure enough, he was not getting any signal. I then took down the
antenna and he still was not getting a signal. He is going to call Direct TV
and have them come out and check his system. In the meantime I will keep my
antenna on the ground.

I don't think it was my antenna that caused the problem, but it was an
odd coincidence. That got me to thinking and my question is "Would it be
possible for the 100 watts from my Kenwood to somehow cause harm to his
satellite TV system, like shutting it down or overloading the satellite dish
components? The dipole wire comes within about 20 feet of his dish. I only
run on forty and twenty meters. Any thoughts would be appreciated.

In any case, I am the loser here because regardless of the cause of my neighbor's satellite system trouble, as in his mind he will always blame my antenna. Of course Direct TV blaming me initially for the problem did not help!

Thanks

Steve K7QHU

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9508. Re: [TS-520_820_530_830] Repost VK5KYO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 14:31:41 UTC
From: Ruben Echevarria
Topic: 9488 Message: 9508

Hello John, just wanted to let the group know that I was not the original poster
of this article. It was VK5KYO along with N9WB. Give credit where credit is due.
So I take no credit for the tech. I did notice recently that there were a few postings
that I felt were related to this problem so I took the liberty of reposting.
Only addition was the last few lines which were mine from my own experience. And
that was the replacement of C71 as well.

73 de Ruben KA2HHB .....NJ..USA

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

9509. Re: [TS-520_820_530_830] 12by7a (again)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 14:34:28 UTC
From: John Harp
Topic: 9487 Message: 9509

I realize you may have heard this before, but when I first heard it, it didn't sink in quitefar enough. So, I'll attempt to make it come thru a little clearer. Hopefully Your better about this than I was.

When you tune up, one of the steps is to set the ALC control. Now I was loading to long at first and second I'd let the needle wander up as I was adjusting the output. Soon I realized that it was harder to set the ALC and it's output was not as good. Before long the drive was gone and it was time to replace the tube again. Another $9 and open the cabinet again and wait for another tube to come in the mail. That got old.

Eventually, I learned to load right and keep the tune-up as short as possible and as inexpensive as I could. Oh, I'm alot better at it now. I archived my settings so I know where everthing is set before I apply the low-power.

I hope this helps you too.

Max Harelik <mharelik@...> wrote:
Since there's really no such thing as a "new" 12BY7 anymore, I'd suggest trying another tube first, before you start digging around in the radio's innards. Occam's razor generally applies; i.e., the simplest, most logical solution usually prevails. (I've got a TS-440 locked in diagnostic mode, but so, far, I haven't found a simple, logical solution for that problem. Not SMT inside, but close.) GL.

73,
Max, K5OVW

elamcreekranch wrote:

> My perfect solution to no drive response by replacing the 12by7a tube
> did not last long. After transmitting for perhaps an hour, the same
> problem returned. Problem being no response to peaking the drive--
> meter just fades off to nothing.
>
> On the first failure, I presumed that since the 12by7a was perhaps 25
> years old, it just failed from age, but now that the new one failed so
> soon, I am wondering if some component associated with this tube is the
> real root cause. Heater switch checks out okay, bias has been less
> than 60 ma, etc.
>
> any and all ideas to check are appreciated!
>
> rltusch kg5iq
>
>

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9510. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 16:27:36 UTC
From: Peter A Markavage
Topic: 9489 Message: 9510

Never, ever, admit your rig and/or the antenna might be at fault unless you know for certain. You've left the door open for him to point a finger at you every time he develops a TV issue regardless to what the issue is. Likewise, a telephone interference issue, the stove is now not working right, the clocks aren't keeping correct time anymore, etc., his finger will be pointing at you or your antenna.

Pete, wa2cwa

> ----- Original Message -----
> From: Stephen Davis
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, September 18, 2006 1:43 AM
> Subject: RE: [TS-520_820_530_830] Re: Antenna Question
>
>
> All,
>
> Thanks for all the replies regarding the possibility of my
> antenna
> interfering with my neighbors Direct TV. This evening I went over
> to my
> neighbor and suggested he power down his cable box, unplug it,
> then plug it
> back in. He grumbled a little bit about waiting for the
> technician, but
> then said they wouldn't be out for a week, so decided to give it a
> try.
> Well, when the cable box was plugged back in and powered up,
> everything was
> fine and he was back in business. Did he thank me.... not really.
> He
> said in three years he had never had to reset the system and
> insisted that
> my antenna was the problem. Oh well... But on a positive note, I
> told him
> I was going to put the antenna back up at half the height and see
> if it
> caused any problems and then if it did not, I would continue to
> raise the
> height a little everyday until it was back to the maximum height.
> I assured
> him I would immediately take it back down if any problems
> occurred. He
> agreed that that was reasonable, so we shall see.

>
> Thanks again to all that responded and thanks to the moderators
> for
> letting this slightly off topic thread exist. If no one objects I
> will post
> in a week or so just to let everyone know how this story ends.
>
> 73's
>
> Steve K7QHU

9511. Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 16:39:14 UTC
From: Ellen R
Topic: 9489 Message: 9511

This is one of the reasons why as an apartment dweller, I try to keep my antennas stealth or low observable. I've run into too may people, who in spite of what you tell them about the poor sheilding on their junky consumer electronics, or whom you point out that you they are using cable TV (that if it's shielded decently shouldn't pick you up), "just know that you're at fault", even if you're not operating at the time.

When I was at the Univ. of WI in the 80s, operating W9YT's TS-830s, we used to have issues with a physics lab, that was doing cryogenic superconducter experiments in the same building out club station was in. They "just knew" that were were causing the noise they saw in their data readouts. It turned out that there were several things that made this claim total nonsense:

1. At most of the times in question, our club station wasn't even on-the-air.
2. Examination of the cables they used from their instruments, showed that they weren't even cables, they were twisted pairs. Some of them were over 30 feet long. We tried explaining to them (some of our members were Electrical Engineering students), that this was part of the problem. But Noooooooo, being PHd students that hey just knew that a "twisted pair was supposed to be noise cancelling." We said that was only the case in theory (and espcially not for that long of a twisted pair length). We even showed tham that they were picking up broadcast stations over the twisted pairs. But you know, they were the PHds, we were just dumb undergrads. Even after the little show & tell, we would get phone calls from the cryo lab asking us if we were operating, whenever they were picking up noise in their instruments. The tone of their voices pretty much said that they thought we were at fault.

When it comes to electronics, and especially RF applications, the average person is totally clueless. But they "just know" it's your fault.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> Steve,
>
> Your incident only show the arrogance that some people have when it
> comes to amateur radio operators. You could put up an antenna and

not
> transmit on it at all and I bet you would still get blamed for
> something. As soon as the neighbors see the antenna and they have
> problems with their TV reception it's natural to blame the ham.
First
> of all, a wire antenna cannot block a satellite signal, unles of
> course your antenna wire is 3 feet in diameter and it runs right
> through his dishs line of sight. If the satellite rep told me that,
> I'd tell him to go back to school and learn something.
> As far as your neighbor is concerned, if your antenna isn't over his
> property line and he thinks your antenna is causing the problems,
I'd
> let him move his dish. It appears that he is already blaming you so
> let him move his antenna. My R7 vertical is within 20 feet of my
> neighbors dish and he tells me he has no problems at all. Ham
> frequencies and satellite frequencies are so far apart in the
> spectrum, you shouldn't be causing any interference at all. Unless
he
> bought his receiver at the dollar store!
>
> Good luck,
>
> Max VE3TMT
>

9512. Re: [TS-520_820_530_830] Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-18 17:13:39 UTC
From: Randy Morton
Topic: 9489 Message: 9512

You'll need to start keeping a station log with accurate times of your operation since you've admitted guilt by lowering the antenna. You should put it back to full height as soon as possible and leave it there. If your neighbor starts complaining about interference, ask for the time and date, then pull out your log while he's there and compare notes. If you are causing interference, a little time grounding his equipment will eliminate a lot of complaints. If you aren't interfering, it's vital to have a station log to prove it. We've been having strange electrical problems for the past couple of years. A couple of weeks ago the lights started dimming to about half brightness occasionally. The power company sent someone out who diagnosed a problem with the line from the pole to the house. They replaced the line and all of the problems went away. Helping your neighbor diagnose the problem will reduce a lot of tension.

Randy (KE5EOT)

On 9/17/06, Stephen Davis <sdavis@...> wrote:
>
> Hello All,
>
> This is a little off topic but while I am waiting for approval to join
> the Antenna Group, I thought I would post here. After all, the antenna is
> attached to a Kenwood TS-820S!!
>
> This past Friday I put an inverted vee antenna up about 25 feet. The
> center mast is a wooden 2X2 that attaches to the side of my patio. The
> ends
> come down and attach to my fence. On Sunday, my neighbor came over and
> complained that his satellite TV had stopped working and when he call
> Direct
> TV they told him my antenna was blocking the signals. I took a look at his
> TV and sure enough, he was not getting any signal. I then took down the
> antenna and he still was not getting a signal. He is going to call Direct
> TV
> and have them come out and check his system. In the meantime I will keep
> my
> antenna on the ground.
>
> I don't think it was my antenna that caused the problem, but it was an
> odd coincidence. That got me to thinking and my question is "Would it be
> possible for the 100 watts from my Kenwood to somehow cause harm to his
> satellite TV system, like shutting it down or overloading the satellite
> dish
> components? The dipole wire comes within about 20 feet of his dish. I only
> run on forty and twenty meters. Any thoughts would be appreciated.

>
> In any case, I am the loser here because regardless of the cause of my
> neighbor's satellite system trouble, as in his mind he will always blame
> my
> antenna. Of course Direct TV blaming me initially for the problem did not
> help!
>
> Thanks
>
> Steve K7QHU
>
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

9513. Re: [TS-520_820_530_830] Repost VK5KYO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 00:38:09 UTC
From: John Harp
Topic: 9488 Message: 9513

Reuben I realized that the postings were not originals but but in at least they could be found in the archives. It could be one of us looking for that info for our 830s that have one. My point was to make sure that a thank you went out for something like that could be a little harder to find.

It's like I explained to the comcast installer today, these radios are hard to find parts for and hard to find someone to repair them. The looks on the face of that man when he entered my staion was a good feeling for me. He asked questions and I answered them well. Then he got right to work and I tuned up the new crystal radio I built.

Ruben Echevarria <ka2hhb_2000@yahoo.com> wrote:
Hello John, just wanted to let the group know that I was not the original poster
of this article. It was VK5KYO along with N9WB. Give credit where credit is due.
So I take no credit for the tech. I did notice recently that there were a few postings
that I felt were related to this problem so I took the liberty of reposting.
Only addition was the last few lines which were mine from my own experience. And
that was the replacement of C71 as well.

73 de Ruben KA2HHB .....NJ..USA

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9514. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 00:54:57 UTC
From: amfone@sbcglobal.net
Topic: 9489 Message: 9514

Steve
I have Direct TV.. I have had to reset the box about three times or four in the last year, its a computer and sometimes rebooting is needed. I am also a ham , there is no way that your antenna will cause the problem as described. Good luck, I understand that you are trying to work this out with your neighbor and it is difficult to explain electronics with someone who is not aware of the facts but good luck..
73 tim
wb8uhz
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 18, 2006 2:43 AM
Subject: RE: [TS-520_820_530_830] Re: Antenna Question

All,

Thanks for all the replies regarding the possibility of my antenna interfering with my neighbors Direct TV. This evening I went over to my neighbor and suggested he power down his cable box, unplug it, then plug it back in. He grumbled a little bit about waiting for the technician, but then said they wouldn't be out for a week, so decided to give it a try. Well, when the cable box was plugged back in and powered up, everything was fine and he was back in business. Did he thank me.... not really. He said in three years he had never had to reset the system and insisted that my antenna was the problem. Oh well... But on a positive note, I told him I was going to put the antenna back up at half the height and see if it caused any problems and then if it did not, I would continue to raise the height a little everyday until it was back to the maximum height. I assured him I would immediately take it back down if any problems occurred. He agreed that that was reasonable, so we shall see.

Thanks again to all that responded and thanks to the moderators for letting this slightly off topic thread exist. If no one objects I will post in a week or so just to let everyone know how this story ends.

73's

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of max_ve3tmt
Sent: Sunday, September 17, 2006 7:35 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Antenna Question

Steve,

Your incident only show the arrogance that some people have when it comes to amateur radio operators. You could put up an antenna and not transmit on it at all and I bet you would still get blamed for something. As soon as the neighbors see the antenna and they have problems with their TV reception it's natural to blame the ham. First of all, a wire antenna cannot block a satellite signal, unles of course your antenna wire is 3 feet in diameter and it runs right through his dishs line of sight. If the satellite rep told me that, I'd tell him to go back to school and learn something.
As far as your neighbor is concerned, if your antenna isn't over his property line and he thinks your antenna is causing the problems, I'd let him move his dish. It appears that he is already blaming you so let him move his antenna. My R7 vertical is within 20 feet of my neighbors dish and he tells me he has no problems at all. Ham frequencies and satellite frequencies are so far apart in the spectrum, you shouldn't be causing any interference at all. Unless he bought his receiver at the dollar store!

Good luck,

Max VE3TMT

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9515. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 01:14:11 UTC
From: David Rust
Topic: 9489 Message: 9515

I think all those boxes, Directv and Dish have to be reset now and then. It happens to mine (Dish) and did the same thing when I had Directv.

I never experience any interference from my 530S or other rigs. I sure upset my weather station and atomic clock though. Anytime I key up the clock blinks for a few hours and then settles down. I think it monitors the 10 meg signal??
73 Dave W0DLR

[Non-text portions of this message have been removed]

9516. Re: [TS-520_820_530_830] Re: Antenna Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 01:47:32 UTC
From: Peter A Markavage
Topic: 9489 Message: 9516

This is also true of some cable boxes too. One time got a bang on the floor to "get off the air"; TV picture went dark in the middle of one of her favorite shows. Problem was, I wasn't on the air. Came up, reset the box, and picture and sound returned.

Tongue-in cheek - "It can't ever be the ham's fault" cause we're licensed by a Federal Government Agency and only need to answer to them.

Sometimes mentioning that your licensed by a Federal Government Agency will make people take a step back especially if they have no clue what they are talking about. In the 47 years of hamming, in two locations, I've learned never to diddle with any of the neighbor's stuff (TV's, stereo's, telephone's, etc.) if they are experiencing problems, noise, lines on the TV, grinding sounds, etc. Refer them back to the manufacturer of the product, suggest possible filters, but don't volunteer to look at it, touch it, etc. Your asking for trouble.

Pete, wa2cwa

On Mon, 18 Sep 2006 20:54:57 -0400 <amfone@...> writes:
> Steve
> I have Direct TV.. I have had to reset the box about three times or
> four in the last year, its a computer and sometimes rebooting is
> needed. I am also a ham , there is no way that your antenna will
> cause the problem as described. Good luck, I understand that you are
> trying to work this out with your neighbor and it is difficult to
> explain electronics with someone who is not aware of the facts but
> good luck..
> 73 tim
> wb8uhz
> ----- Original Message -----
> From: Stephen Davis
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, September 18, 2006 2:43 AM
> Subject: RE: [TS-520_820_530_830] Re: Antenna Question
>
>
> All,
>
> Thanks for all the replies regarding the possibility of my
> antenna
> interfering with my neighbors Direct TV. This evening I went over
> to my
> neighbor and suggested he power down his cable box, unplug it,
> then plug it
> back in. He grumbled a little bit about waiting for the

> technician, but
> then said they wouldn't be out for a week, so decided to give it a
> try.
> Well, when the cable box was plugged back in and powered up,
> everything was
> fine and he was back in business. Did he thank me.... not really.
> He
> said in three years he had never had to reset the system and
> insisted that
> my antenna was the problem. Oh well... But on a positive note, I
> told him
> I was going to put the antenna back up at half the height and see
> if it
> caused any problems and then if it did not, I would continue to
> raise the
> height a little everyday until it was back to the maximum height.
> I assured
> him I would immediately take it back down if any problems
> occurred. He
> agreed that that was reasonable, so we shall see.
>
> Thanks again to all that responded and thanks to the moderators
> for
> letting this slightly off topic thread exist. If no one objects I
> will post
> in a week or so just to let everyone know how this story ends.
>
> 73's
>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
> max_ve3tmt
> Sent: Sunday, September 17, 2006 7:35 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: Antenna Question
>
> Steve,
>
> Your incident only show the arrogance that some people have when
> it
> comes to amateur radio operators. You could put up an antenna and
> not
> transmit on it at all and I bet you would still get blamed for
> something. As soon as the neighbors see the antenna and they have
> problems with their TV reception it's natural to blame the ham.
> First

> of all, a wire antenna cannot block a satellite signal, unles of
> course your antenna wire is 3 feet in diameter and it runs right
> through his dishs line of sight. If the satellite rep told me
> that,
> I'd tell him to go back to school and learn something.
> As far as your neighbor is concerned, if your antenna isn't over
> his
> property line and he thinks your antenna is causing the problems,
> I'd
> let him move his dish. It appears that he is already blaming you
> so
> let him move his antenna. My R7 vertical is within 20 feet of my
> neighbors dish and he tells me he has no problems at all. Ham
> frequencies and satellite frequencies are so far apart in the
> spectrum, you shouldn't be causing any interference at all. Unless
> he
> bought his receiver at the dollar store!
>
> Good luck,
>
> Max VE3TMT

9517. TS520 bits wanted...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 05:24:48 UTC
From: vk3bfa
Topic: 9517 Message: 9517

Anyone in VK got some TS520 bits they can sell me - NLA from Kenwood.
Need (or rather, want)

VFO gear mechanism pn D40-0099-15
Xtal for 28.5Mhz band freq 37.395Mhz pn L77-0146-15

The xtal is just dead.

The VFO feels like your opening a can of baked beans with a blunt can opener when turning the knob - as far as I can tell, the ball bearings have eroded the brass shaft so they are just plain sloppy.

The VFO - one possibility is to machine a new shaft, but my metalworking skills aint up to that yet! - the other is get oversize bearings and ream out the housings on the shaft - again, it would be a PITA and I dont want to do it lest I stuff it up completely - it does work at the moment, it just feels bloody horrible!

BTW - whats the recommended grade of grease/oil in these things - the original grease had long since balled, so there was corrosion on the steel bearing retainers as well as the erosion of the carrier shaft.

Or can anyone suggest a repair method on these things? (please????)

Andrew VK3BFA.

9518. Re: [TS-520_820_530_830] TS520 bits wanted...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 05:40:11 UTC
From: agoodridge
Topic: 9517 Message: 9518

G'day Andrew

I think I may have the crystal and a complete VFO minus the frequency readout plate.

I have to check if I still have them.

From memory I bought the vfo a couple of years ago from the states.

I will let you know later tonight.

Regards
Anthony
VK2FVIC
---- vk3bfa <woofferau@...> wrote:
> Anyone in VK got some TS520 bits they can sell me - NLA from Kenwood.
> Need (or rather, want)
>
> VFO gear mechanism pn D40-0099-15
> Xtal for 28.5Mhz band freq 37.395Mhz pn L77-0146-15
>
> The xtal is just dead.
>
> The VFO feels like your opening a can of baked beans with a blunt can
> opener when turning the knob - as far as I can tell, the ball bearings
> have eroded the brass shaft so they are just plain sloppy.
>
> The VFO - one possibility is to machine a new shaft, but my
> metalworking skills aint up to that yet! - the other is get oversize
> bearings and ream out the housings on the shaft - again, it would be a
> PITA and I dont want to do it lest I stuff it up completely - it does
> work at the moment, it just feels bloody horrible!
>
> BTW - whats the recommended grade of grease/oil in these things - the
> original grease had long since balled, so there was corrosion on the
> steel bearing retainers as well as the erosion of the carrier shaft.
>
> Or can anyone suggest a repair method on these things? (please????)
>
> Andrew VK3BFA.
>
>
>

9519. TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 09:22:06 UTC
From: wayfound2000
Topic: 9519 Message: 9519

Hello Folks.
On My TS530S particularly on Strong Signals..The audio is raspy sounding and lacking clarity. Tries other speakers. I can improve things by keping the RF gain backed off but I'm sure the audio could be inproved..Perhaps an overload problem or AGC..Anyone elses experiences/advice? All the best.
Pete G4HAK

9520. RE: [TS-520_820_530_830] TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 11:19:46 UTC
From: Darwin, Keith
Topic: 9519 Message: 9520

Hi Pete,

Have you tried headphones?

I have an 830s but I notice the audio sounds cleaner and smoother if I back the RF gain down. On an S9 signal, I'll back it down until the S-meter hovers at S9+20. Background noise drops, the signal becomes smooth and clear.

Mind you, my rig, even with the RF gain full on, still sounds very good so I don't think I'm seeing the problem you are (which does indeed sound like AGC not doing it's job.

73!

- Keith KD1E -

-----Original Message-----

On My TS530S particularly on Strong Signals..The audio is raspy sounding and lacking clarity. Tries other speakers. I can improve things by keping the RF gain backed off but I'm sure the audio could be inproved..Perhaps an overload problem or AGC..Anyone elses experiences/advice? All the best.
Pete G4HAK

Yahoo! Groups Links

9521. 830s ALC problems - help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 11:59:55 UTC
From: Darwin, Keith
Topic: 9521 Message: 9521

Hey folks,

My 830s has developed an intermittent problem with the ALC on TX. During tune-up things will be going just fine. The all the sudden no ALC, no plate current, no output. Moving to the CW position and maxing the CAR control I'll get 20 or 30 watts out tops.

I did some exploring and found the problem seems tied to L29 on the IF board (Or was it L28 - It's the one closed to the VFO). If I tap the inductor or adjust it my rig suddenly jumps to life (I get lots of ALC and lots of output. Figuring the control was dirty, I spun it back and forth several times. Things settled down and the rig worked predictably for a bit. Then the problem returned.

I went back into the rig and reseated the cables near L29. No change. Figuring L29 was dirty, I sprayed it (lightly) with DeOxIt. Spun it back and forth then peaked the signal. That seemed to do it.

BUT

The rig puts out 25 watts with the CAR control at minimum. It used to turn down to less than 5. Now 25 is the min. And the intermittent problem came back. What's up with that? Did the DeOxIt provide some leakage paths around parts of the circuit or something?

I'm thinking I should just replace L29. Is this a part that is available? From Mouser? From whom? Or should I be looking for a different cause to the problem?

- Keith KD1E -

[Non-text portions of this message have been removed]

9522. RE: [TS-520_820_530_830] TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 12:23:00 UTC
From: Richard Harris
Topic: 9519 Message: 9522

Hi Peter,

Does your S-meter respond as you would expect? Are you using the long AGC time constant setting?

What does a strong CW signal sound like?

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of wayfound2000
Sent: 19 September 2006 10:22
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS530S Audio Distortion..Any advice please?

Hello Folks.
On My TS530S particularly on Strong Signals..The audio is raspy
sounding and lacking clarity. Tries other speakers. I can improve
things by keping the RF gain backed off but I'm sure the audio could
be inproved..Perhaps an overload problem or AGC..Anyone elses
experiences/advice? All the best.
Pete G4HAK

[Non-text portions of this message have been removed]

9523. Re: TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 17:03:08 UTC
From: Clif
Topic: 9519 Message: 9523

```
--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks.
> On My TS530S particularly on Strong Signals..The audio is raspy
> sounding and lacking clarity. Tries other speakers. I can improve
> things by keping the RF gain backed off but I'm sure the audio could
> be inproved..Perhaps an overload problem or AGC..Anyone elses
> experiences/advice? All the best.
> Pete G4HAK
>

Try replacing C30 and L1 on the AF unit.

Clif
```

9524. Re: [TS-520_820_530_830] TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 18:27:35 UTC
From: Peter A Markavage
Topic: 9519 Message: 9524

An excellent collection of TS-830S hints and solutions to problems was collected on a web site several years ago. Although directed to the 830, many of the solutions to problems probably could also be directed to some of the similar models. Schematic notations(R2, C45, L21, etc, etc.) would probably have to be adjusted to conform to the model you have but there are tons of helpful hints and solutions to a wide variety of problems including several that were mentioned here recently.
Best thing is to download the PDF file:

Pete, wa2cwa

http://us.share.geocities.com/om6523/830book1.pdf
On Tue, 19 Sep 2006 09:22:06 -0000 "wayfound2000"
<wayfound2000@...> writes:
> Hello Folks.
> On My TS530S particularly on Strong Signals..The audio is raspy
> sounding and lacking clarity. Tries other speakers. I can improve
> things by keping the RF gain backed off but I'm sure the audio could
>
> be inproved..Perhaps an overload problem or AGC..Anyone elses
> experiences/advice? All the best.
> Pete G4HAK

9525. Re: TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 18:24:22 UTC
From: wayfound2000
Topic: 9519 Message: 9525

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks.
> > On My TS530S particularly on Strong Signals..The audio is raspy
> > sounding and lacking clarity. Tries other speakers. I can
improve
> > things by keping the RF gain backed off but I'm sure the audio
could
> > be inproved..Perhaps an overload problem or AGC..Anyone elses
> > experiences/advice? All the best.
> > Pete G4HAK
> >
>
> Try replacing C30 and L1 on the AF unit.
>
> Clif

Ok Will try these changes. On CW its about the same effect. Maybe it is just a case of keeping the RF gain backed off. Makes a bif difference. S meter works as it should . AGc is on slow so thats OK. Will try the caps and see what happens! Many thanks all
Pete
>

9526. 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 19:10:25 UTC
From: Ken Gunton
Topic: 9519 Message: 9526

The file you mentioned is no longer available
according to that web site.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A Markavage
Sent: Tuesday, September 19, 2006 2:28 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any advice please?

An excellent collection of TS-830S hints and solutions to problems was collected
on a web site several years ago. Although directed to the 830, many of the
solutions to problems probably could also be directed to some of the similar
models. Schematic notations(R2, C45, L21, etc, etc.) would probably have to be
adjusted to conform to the model you have but there are tons of helpful hints
and solutions to a wide variety of problems including several that were
mentioned here recently. Best thing is to download the PDF file:

Pete, wa2cwa

9527. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 19:24:17 UTC
From: KD5SFA
Topic: 9519 Message: 9527

The response I got was that the site exceeded it data rate
and was not available for a period of time. Typical setup
for a free website...

73,
Jon
KD5SFA

-----Original Message-----
>From: Ken Gunton <ken@...>
>Sent: Sep 19, 2006 3:10 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] 830 hints and solutions file not available
>
>The file you mentioned is no longer available
>according to that web site.
>
>-----Original Message-----
>From: TS-520_820_530_830@yahoogroups.com
>[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A Markavage
>Sent: Tuesday, September 19, 2006 2:28 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any advice please?
>
>
>An excellent collection of TS-830S hints and solutions to problems was collected
>on a web site several years ago. Although directed to the 830, many of the
>solutions to problems probably could also be directed to some of the similar
>models. Schematic notations(R2, C45, L21, etc, etc.) would probably have to be
>adjusted to conform to the model you have but there are tons of helpful hints
>and solutions to a wide variety of problems including several that were
>mentioned here recently. Best thing is to download the PDF file:
>
>Pete, wa2cwa
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>

>
>
>

9528. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 19:25:32 UTC
From: Ruben Echevarria
Topic: 9519 Message: 9528

That file is called "The TS830S Survival Guide" , I have it if anyone needs it..it's 11meg.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Ken Gunton <ken@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 19, 2006 3:10:25 PM
Subject: [TS-520_820_530_830] 830 hints and solutions file not available

The file you mentioned is no longer available
according to that web site.

-----Original Message-----
From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Peter A Markavage
Sent: Tuesday, September 19, 2006 2:28 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] TS530S Audio Distortion.. Any advice please?

An excellent collection of TS-830S hints and solutions to problems was collected
on a web site several years ago. Although directed to the 830, many of the
solutions to problems probably could also be directed to some of the similar
models. Schematic notations(R2, C45, L21, etc, etc.) would probably have to be
adjusted to conform to the model you have but there are tons of helpful hints
and solutions to a wide variety of problems including several that were
mentioned here recently. Best thing is to download the PDF file:

Pete, wa2cwa

[Non-text portions of this message have been removed]

9529. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 19:34:40 UTC
From: Peter A Markavage
Topic: 9519 Message: 9529

This is probably why: " web site you were trying to view has temporarily exceeded its data transfer limit. Please try again later."

Pete, wa2cwa

On Tue, 19 Sep 2006 15:10:25 -0400 "Ken Gunton" <ken@...> writes:
> The file you mentioned is no longer available
> according to that web site.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A
> Markavage
> Sent: Tuesday, September 19, 2006 2:28 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any
> advice please?
>
>
> An excellent collection of TS-830S hints and solutions to problems
> was collected
> on a web site several years ago. Although directed to the 830, many
> of the
> solutions to problems probably could also be directed to some of the
> similar
> models. Schematic notations(R2, C45, L21, etc, etc.) would probably
> have to be
> adjusted to conform to the model you have but there are tons of
> helpful hints
> and solutions to a wide variety of problems including several that
> were
> mentioned here recently. Best thing is to download the PDF file:
>
> Pete, wa2cwa
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

>
>
>
>
>

[Non-text portions of this message have been removed]

9530. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 19:40:19 UTC
From: Peter A Markavage
Topic: 9519 Message: 9530

"Someone of power" from our Group site should contact the owner of the
file to see if could be posted in our "Files" section.
The PDF file is called the "Kenwood TS-830S Survival Guide", edited by
Olaf Rettkowski, DL9AI.

Pete, wa2cwa

On Tue, 19 Sep 2006 15:10:25 -0400 "Ken Gunton" <ken@...>
writes:
> The file you mentioned is no longer available
> according to that web site.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A
> Markavage
> Sent: Tuesday, September 19, 2006 2:28 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any
> advice please?
>
>
> An excellent collection of TS-830S hints and solutions to problems
> was collected
> on a web site several years ago. Although directed to the 830, many
> of the
> solutions to problems probably could also be directed to some of the
> similar
> models. Schematic notations(R2, C45, L21, etc, etc.) would probably
> have to be
> adjusted to conform to the model you have but there are tons of
> helpful hints
> and solutions to a wide variety of problems including several that
> were
> mentioned here recently. Best thing is to download the PDF file:
>
> Pete, wa2cwa

9531. QST Product Review Columns on Line

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 18:50:41 UTC
From: N3DOK
Topic: 9531 Message: 9531

ARRL Members Only Page
QST Product Review Columns
Includes QST issues from Jan 1980 to Oct 2006
Product Review main page
Reviews listed by issue
List of Expanded Test Reports

Product Review columns and test reports are available in Adobe Portable Document Format (PDF) files. [NB: Many of these files are large -- up to several megabytes.] To view and print these files, you'll need a copy of Adobe's free Acrobat Reader program. (Version 3.0 or later required.)

http://www.arrl.org/members-only/prodrev/bymfg.html#K

[Non-text portions of this message have been removed]

9532. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 19:59:07 UTC
From: KD5SFA
Topic: 9519 Message: 9532

I'll look around and see if I can scrounge up
some space as we are at 99%.

73,
Jon
KD5SFA

-----Original Message-----
>From: Peter A Markavage <pmarkavage@...>
>Sent: Sep 19, 2006 3:40 PM
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] 830 hints and solutions file not available
>
>"Someone of power" from our Group site should contact the owner of the
>file to see if could be posted in our "Files" section.
>The PDF file is called the "Kenwood TS-830S Survival Guide", edited by
>Olaf Rettkowski, DL9AI.
>
>Pete, wa2cwa
>
>On Tue, 19 Sep 2006 15:10:25 -0400 "Ken Gunton" <ken@...>
>writes:
>> The file you mentioned is no longer available
>> according to that web site.
>>
>> -----Original Message-----
>> From: TS-520_820_530_830@yahoogroups.com
>> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A
>> Markavage
>> Sent: Tuesday, September 19, 2006 2:28 PM
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any
>> advice please?
>>
>>
>> An excellent collection of TS-830S hints and solutions to problems
>> was collected
>> on a web site several years ago. Although directed to the 830, many
>> of the
>> solutions to problems probably could also be directed to some of the
>> similar
>> models. Schematic notations(R2, C45, L21, etc, etc.) would probably
>> have to be
>> adjusted to conform to the model you have but there are tons of
>> helpful hints

>> and solutions to a wide variety of problems including several that
>> were
>> mentioned here recently. Best thing is to download the PDF file:
>>
>> Pete, wa2cwa
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
>

9533. The TS830S Survival Guide

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 20:02:03 UTC
From: Ruben Echevarria
Topic: 9533 Message: 9533

http://www.geocities.com/om6523/

This link takes you to the latest version of the guide.......
And this is what the page says:

This page is dedicated to all TS-830 users out there...
Ham radio equipment with solid state technology is "state of the art", but many of the older rigs are still in use today. These ancient machines can be purchased on the used market for low prices and some are known to be very reliable, among them the TS-830. This rig produced by Trio/Kenwood in the 1980's is a hybrid transceiver containing semiconductors and integrated circuitry as well as vacuum tubes in the final stage.
Although a lot of material about the TS-830 is available on the web, there's no comprehensive collection available (as far as I know). So I'll present here the stuff I collected while searching for problem fixes for my TS-830.
The basic idea was to produce a printable manual-like guide, ready for making additions and modifications. So the file format had to be a common used one, with good compression of the included images and with hypertext capabilities. I chose the Microsoft Word 2000 format because it fulfils these requirements more or less and is supposed to become some kind of standard (at least for the next few years). In contrast, PDF seems to be not a good choice for the sake of further processing of the text. Nevertheless a PDF-version is also available...
Download 830book1.doc (466 KByte, Microsoft Word 2000 required)
Download 830book1.pdf (1544 KByte, Adobe Acrobat Reader required)
Please feel free to distribute this file over the net. If You make changes to it, please mail a copy of Your additions.
Last update: November 13th 2002
VY73

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

9534. Re: [TS-520_820_530_830] 830s ALC problems - help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 22:14:51 UTC
From: n9wb
Topic: 9521 Message: 9534

Keith:

Remove the IF board and scan the foil side for bad solder connections. With a low wattage iron, re-solder any connections that are suspect. Also re-solder the connections from the connectors to the board. Ruben just had a similar problem and this was the fix. Look carefully around the coil in question and re-solder the associated joints. Be very careful not to get solder bridges and if you do remove it at once before you proceed or you will forget where it was.

Probably when you touch the coil, it is ever so slightly flexing the board. After replacing the board, be sure all connectors are lined up properly and check all the screws that mount all of the boards for tightness.

Vy 73, Walt N9WB

----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 19, 2006 6:59 AM
Subject: [TS-520_820_530_830] 830s ALC problems - help?

Hey folks,

My 830s has developed an intermittent problem with the ALC on TX. During tune-up things will be going just fine. The all the sudden no ALC, no plate current, no output. Moving to the CW position and maxing the CAR control I'll get 20 or 30 watts out tops.

I did some exploring and found the problem seems tied to L29 on the IF board (Or was it L28 - It's the one closed to the VFO). If I tap the inductor or adjust it my rig suddenly jumps to life (I get lots of ALC and lots of output. Figuring the control was dirty, I spun it back and forth several times. Things settled down and the rig worked predictably for a bit. Then the problem returned.

I went back into the rig and reseated the cables near L29. No change. Figuring L29 was dirty, I sprayed it (lightly) with DeOxIt. Spun it back and forth then peaked the signal. That seemed to do it.

BUT

The rig puts out 25 watts with the CAR control at minimum. It used to turn down to less than 5. Now 25 is the min. And the intermittent problem came back. What's up with that? Did the DeOxIt provide some leakage paths around parts of the circuit or something?

I'm thinking I should just replace L29. Is this a part that is available? From Mouser? From whom? Or should I be looking for a different cause to the problem?

- Keith KD1E -

9535. Re: 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 21:34:58 UTC
From: Gordon
Topic: 9519 Message: 9535

I have it available on my kenwood page for free download.
http://www.n6wk.com/kenwood/

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> "Someone of power" from our Group site should contact the owner of the
> file to see if could be posted in our "Files" section.
> The PDF file is called the "Kenwood TS-830S Survival Guide", edited by
> Olaf Rettkowski, DL9AI.
>
> Pete, wa2cwa
>
> On Tue, 19 Sep 2006 15:10:25 -0400 "Ken Gunton" <ken@...>
> writes:
> > The file you mentioned is no longer available
> > according to that web site.
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A
> > Markavage
> > Sent: Tuesday, September 19, 2006 2:28 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any
> > advice please?
> >
> >
> > An excellent collection of TS-830S hints and solutions to problems
> > was collected
> > on a web site several years ago. Although directed to the 830, many
> > of the
> > solutions to problems probably could also be directed to some of the
> > similar
> > models. Schematic notations(R2, C45, L21, etc, etc.) would probably
> > have to be
> > adjusted to conform to the model you have but there are tons of
> > helpful hints
> > and solutions to a wide variety of problems including several that
> > were
> > mentioned here recently. Best thing is to download the PDF file:
> >

> > Pete, wa2cwa
>

9536. Re: 830s ALC problems - help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 21:58:48 UTC
From: Gordon
Topic: 9521 Message: 9536

Keith, I'm betting you have a bad solder joint on the Connector next
to L29 I would remove the If board enough to flip it over and check
very closely around that connector. It could even be a cold solder
joint on the L29 itself, but most likely it is one of the connector pins.
73,
Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:
>
> Hey folks,
>
> My 830s has developed an intermittent problem with the ALC on TX.
> During tune-up things will be going just fine. The all the sudden no
> ALC, no plate current, no output. Moving to the CW position and maxing
> the CAR control I'll get 20 or 30 watts out tops.
>
> I did some exploring and found the problem seems tied to L29 on the IF
> board (Or was it L28 - It's the one closed to the VFO). If I tap the
> inductor or adjust it my rig suddenly jumps to life (I get lots of ALC
> and lots of output. Figuring the control was dirty, I spun it back and
> forth several times. Things settled down and the rig worked predictably
> for a bit. Then the problem returned.
>
> I went back into the rig and reseated the cables near L29. No change.
> Figuring L29 was dirty, I sprayed it (lightly) with DeOxIt. Spun it
> back and forth then peaked the signal. That seemed to do it.
>
> BUT
>
> The rig puts out 25 watts with the CAR control at minimum. It used to
> turn down to less than 5. Now 25 is the min. And the intermittent
> problem came back. What's up with that? Did the DeOxIt provide some
> leakage paths around parts of the circuit or something?
>
> I'm thinking I should just replace L29. Is this a part that is
> available? From Mouser? From whom? Or should I be looking for a
> different cause to the problem?
>
> - Keith KD1E -
>
>
> [Non-text portions of this message have been removed]
>

9537. Re: TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 22:07:06 UTC
From: Gordon
Topic: 9519 Message: 9537

I had that problem on an 820 once. turned out there were two resistors
on the AF board that had gone WAY up in value. Ohmed them out,
replaced them and problem was solved.
Don't know if that'll help you in any way with your 530, but it's a hint.

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks.
> On My TS530S particularly on Strong Signals..The audio is raspy
> sounding and lacking clarity. Tries other speakers. I can improve
> things by keping the RF gain backed off but I'm sure the audio could
> be inproved..Perhaps an overload problem or AGC..Anyone elses
> experiences/advice? All the best.
> Pete G4HAK
>

9538. Looking for a 1SV153

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 22:28:32 UTC
From: Gordon
Topic: 9538 Message: 9538

I need a 1SV153 varactor diode. Does anypone have one for sale ?

Gordon
N6WK

9539. Re: [TS-520_820_530_830] Looking for a 1SV153

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 23:34:59 UTC
From: Peter A Markavage
Topic: 9538 Message: 9539

East Coast Transistor has them for $1.78. Part #1SV153.
Phone 18006453516

Pete, wa2cwa

On Tue, 19 Sep 2006 22:28:32 -0000 "Gordon" <n6wk@...> writes:
> I need a 1SV153 varactor diode. Does anypone have one for sale ?
>
> Gordon
> N6WK
>

9540. Looking for a cw filter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-19 23:13:13 UTC
From: kc8sbv
Topic: 9540 Message: 9540

I am newer General, and tried the Fists' Get Your Feet Wet weekend on cw with my TS-530. The contest left me wanting a cw IF filter. If anyone in the group is willing to part with a YK-88C, please email me direct at my call at yahoo dot com.

Tnx es 73,
Ed KC8SBV

9541. Re: [TS-520_820_530_830] The TS830S Survival Guide

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 00:29:11 UTC
From: John Harp
Topic: 9533 Message: 9541

I've got the PDF version stored and when the cold weather is here some time soon I'll make a paper copy of it for myself.

Ruben Echevarria <ka2hhb_2000@...> wrote:
http://www.geocities.com/om6523/

This link takes you to the latest version of the guide.....
And this is what the page says:

This page is dedicated to all TS-830 users out there...
Ham radio equipment with solid state technology is "state of the art", but many of the older rigs are still in use today. These ancient machines can be purchased on the used market for low prices and some are known to be very reliable, among them the TS-830. This rig produced by Trio/Kenwood in the 1980's is a hybrid transceiver containing semiconductors and integrated circuitry as well as vacuum tubes in the final stage.
Although a lot of material about the TS-830 is available on the web, there's no comprehensive collection available (as far as I know). So I'll present here the stuff I collected while searching for problem fixes for my TS-830.
The basic idea was to produce a printable manual-like guide, ready for making additions and modifications. So the file format had to be a common used one, with good compression of the included images and with hypertext capabilities. I chose the Microsoft Word 2000 format because it fulfils these requirements more or less and is supposed to become some kind of standard (at least for the next few years). In contrast, PDF seems to be not a good choice for the sake of further processing of the text. Nevertheless a PDF-version is also available...
Download 830book1.doc (466 KByte, Microsoft Word 2000 required)
Download 830book1.pdf (1544 KByte, Adobe Acrobat Reader required)
Please feel free to distribute this file over the net. If You make changes to it, please mail a copy of Your additions.
Last update: November 13th 2002
VY73

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9542. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 00:51:00 UTC
From: John Harp
Topic: 9519 Message: 9542

well actually some of these things are found right around the web. For example the Owners comments are on E-Ham. Also the mods are found on DK among other sources. This person Olaf Rettkowski callsign DL9AI actually got it in one place. the version 1.2 is dated 3 DEC 2002 at almost the top on a flip from the cover. his perface at the bottom states his terms to propagate and improve it's content, thus it is dated as such from Halle, Germany June 25th, 2002. Until I found this group a couple of months ago this and my owners manual were all I had for information I could reference. I don't even have the service manual at this time. The organization of all these archives (which I'm including this yahoo group) is what there is for us out here.

Beyond the possibility of the radios failing into parts rigs and these compiled data we have left beyond those left that know these machines well enough to deal with thier issues. Even some of our parts are becoming scarce. Has anyone of us thought of what happens with parts and repair now with the changes against lead solder. Electronics is now going lead free.

I must admit we have challenges ahead of us.

Peter A Markavage <pmarkavage@...> wrote:
This is probably why: " web site you were trying to view has temporarily
exceeded its data transfer limit. Please try again later."

Pete, wa2cwa

On Tue, 19 Sep 2006 15:10:25 -0400 "Ken Gunton" <ken@...>
writes:
> The file you mentioned is no longer available
> according to that web site.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A
> Markavage
> Sent: Tuesday, September 19, 2006 2:28 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any
> advice please?
>
>
> An excellent collection of TS-830S hints and solutions to problems
> was collected
> on a web site several years ago. Although directed to the 830, many
> of the
> solutions to problems probably could also be directed to some of the
> similar
> models. Schematic notations(R2, C45, L21, etc, etc.) would probably

> have to be
> adjusted to conform to the model you have but there are tons of
> helpful hints
> and solutions to a wide variety of problems including several that
> were
> mentioned here recently. Best thing is to download the PDF file:
>
> Pete, wa2cwa
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9543. RE: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 02:46:07 UTC
From: Walter Milton
Topic: 9519 Message: 9543

Ruben,

Can you send me a copy. Thanks !!

Walt, KA2NJF wmilton at comcast dot net

Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ruben Echevarria
Sent: Tuesday, September 19, 2006 3:26 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 830 hints and solutions file not available

That file is called "The TS830S Survival Guide" , I have it if anyone needs
it..it's 11meg.

Ruben Echevarria
ka2hhb_2000@ <mailto:ka2hhb_2000%40yahoo.com> yahoo.com
exracer1@verizon. <mailto:exracer1%40verizon.net> net

----- Original Message ----
From: Ken Gunton <ken@ohiomicrowave. <mailto:ken%40ohiomicrowave.com> com>
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Tuesday, September 19, 2006 3:10:25 PM
Subject: [TS-520_820_530_830] 830 hints and solutions file not available

The file you mentioned is no longer available
according to that web site.

-----Original Message-----
From: TS-520_820_530_ 830@yahoogroups. com
[mailto:TS-520_820_530_ 830@yahoogroups. com] On Behalf Of Peter A Markavage
Sent: Tuesday, September 19, 2006 2:28 PM
To: TS-520_820_530_ 830@yahoogroups. com
Subject: Re: [TS-520_820_ 530_830] TS530S Audio Distortion.. Any advice
please?

An excellent collection of TS-830S hints and solutions to problems was
collected
on a web site several years ago. Although directed to the 830, many of the
solutions to problems probably could also be directed to some of the similar
models. Schematic notations(R2, C45, L21, etc, etc.) would probably have to

be
adjusted to conform to the model you have but there are tons of helpful
hints
and solutions to a wide variety of problems including several that were
mentioned here recently. Best thing is to download the PDF file:

Pete, wa2cwa

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9544. LED replacement of bulbs TS520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 05:15:25 UTC
From: vk3bfa
Topic: 9544 Message: 9544

Hi all - have posted a picture of the white LED conversion on my junker TS520. Its a pain to constantly replace incandescent bulbs, particularly the ones in front of the VFO. The 12vac from the original supply line is half wave rectified, filtered (yellow cap in picture) and then appplied to a LM317 set up as a constant current regulator. I set current to 15ma, gives nice level of illumination. The LEDs used were the cheapest in the shop, 99c, rated at 2,000mcd. No point in going brighter. The LEDS are all in series to provide the same current flow through each one, and thus the same brightness in each one. The original tagstrip on the bottom LHS of the meter was kept, usud as a tie point. The regulator was built on a scrap of PCB, scored with a hacksaw to provide pads. A small hole drilled in the corner of the borad enabled the assembly to be mounted on the top RHS meter support bolt head.

Worth the effort I hope......a nice brainless activity while pondering the inexplicable and bizarre faults in these lovely old radios...

Andrew VK3BFA.

9545. RE: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 07:00:00 UTC
From: Richard Harris
Topic: 9519 Message: 9545

Pete,

As someone involved with the conversion of electronic products to lead-free soldering, I can provide some advice based on the European Union Directive, which is driving the world-wide move to lead-free. In the US you do not have any restrictions at the present time, as far as I am aware, but many States, particularly CA, are looking at legislation in this area. To give you some idea of what is happening over this side of the Atlantic, and as a foretaste of things to come in the US......

Home construction is exempt from the Directive Also, maintaining equipment sold before 1 July 2006 is exempt because it prolongs the life of equipment and so keeps it out of land-fill. So there are no restrictions that affect the maintenance of Kenwood hybrid rigs.

I am sure that lead-based solder will be available for a long time yet - in the EU there are exemptions for the military and, at the present time, for medical and measuring equipment and for equipment covered by other Directives such as electronics in vehicles. However, if you are concerned about the availablity of leaded solder, then do as I have done - buy a life-time supply of 60/40 solder!

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of John Harp
Sent: 20 September 2006 01:51
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 830 hints and solutions file not available

well actually some of these things are found right around the web. For example the Owners comments are on E-Ham. Also the mods are found on DK among other sources. This person Olaf Rettkowski callsign DL9AI actually got it in one place. the version 1.2 is dated 3 DEC 2002 at almost the top on a flip from the cover. his perface at the bottom states his terms to propagate and improve it's content, thus it is dated as such from Halle, Germany June 25th, 2002. Until I found this group a couple of months ago this and my owners manual were all I had for information I could reference. I don't even have the service manual at this time. The organization of all these archives (which I'm including this yahoo group) is what there is for us out here.

Beyond the possibility of the radios failing into parts rigs and these compiled data we have left beyond those left that know these machines well enough to deal with thier issues. Even some of our parts are becoming scarce. Has anyone of us thought of what happens with parts and repair now with the changes against lead solder. Electronics is now going lead free.

I must admit we have challenges ahead of us.

Peter A Markavage <pmarkavage@...> wrote:
This is probably why: " web site you were trying to view has temporarily
exceeded its data transfer limit. Please try again later."

Pete, wa2cwa

On Tue, 19 Sep 2006 15:10:25 -0400 "Ken Gunton" <ken@...>
writes:
> The file you mentioned is no longer available
> according to that web site.
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A
> Markavage
> Sent: Tuesday, September 19, 2006 2:28 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS530S Audio Distortion..Any
> advice please?
>
>
> An excellent collection of TS-830S hints and solutions to problems
> was collected
> on a web site several years ago. Although directed to the 830, many
> of the
> solutions to problems probably could also be directed to some of the
> similar
> models. Schematic notations(R2, C45, L21, etc, etc.) would probably
> have to be
> adjusted to conform to the model you have but there are tons of
> helpful hints
> and solutions to a wide variety of problems including several that
> were
> mentioned here recently. Best thing is to download the PDF file:
>
> Pete, wa2cwa
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
>

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9546. Files in group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 08:08:30 UTC
From: n9wb
Topic: 9546 Message: 9546

Gordon:
I think that you are a computer person. If so, how hard is it to convert PDF files to something more compact. I tried to put the TS-830 survival guide on the 520-830 file section but we are out of room. I hate to take member's pictures off to make more room. Could we convert the survival Guide and other PDF files to make more room?

Walt N9WB

[Non-text portions of this message have been removed]

9547. Survival Guide and other info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 07:38:00 UTC
From: Walter A. Breining
Topic: 9547 Message: 9547

This group is out of file room.

"The TS 830 Survival Guide" and other useful information can be found
on Gordon's Kenwood Page
http://www.n6wk.com/kenwood/

This link is posted under "Links" in this group.

"The TS 830 Survival Guide" is also posted in the "Files" section of
the KenwoodMics Yahoo group.

Walt N9WB

9548. Re: [TS-520_820_530_830] 830 hints and solutions file not available

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 09:01:52 UTC
From: Dave and Loraine
Topic: 9519 Message: 9548

Let's delete some photos to make room for repair text.
Dave F4EYK

9549. 820s blown diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 09:54:35 UTC
From: ron
Topic: 9549 Message: 9549

one night i turned on the bedside 820s and the lamps came on but no display and no audio, took it too work bench and checked 9 and 3.3 volt power, no juice, went to transformer and found 14 volts ac, checked and found 2 shorted diodes , replaced all 4 diodes and powerd up normally, now big 60 thousand buck question, all works great except when attenuator is engaged on all bands its normal except on ten, when u turn on it actually increases signal, when disengaged it attenuates signal? hmmmm ron ne0x

--
☐Scientific Linux, A Hoot and Free to Boot.....

9550. Re: Survival Guide and other info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 11:07:27 UTC
From: max_ve3tmt
Topic: 9547 Message: 9550

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining"
<n9wb@...> wrote:
>
> This group is out of file room.

I have uploaded the Survival Guide to the files section. It is in rich text format, so if you have WordPad (included in Windows) on your computer it should be fine. I did delete the photos of the TS820 monitor circuit which I posted long ago. Not sure if this increased the available space to any great extent but the Survival Guide is now in the files section.

Max VE3TMT

9551. RE: [TS-520_820_530_830] Re: 830s ALC problems - help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 11:25:22 UTC
From: Darwin, Keith
Topic: 9521 Message: 9551

Thanks Gordon & Walt!

I've been thinking my next step would be checking / redoing the solder joints in the region around L29 and the neighboring connectors so you're suggestions are right in line with my plans.

Of course last night the rig worked 100%. Had a QSO with a guy nr Chicago. We chatted on CW, he on paddles, me zipping along with my straight key, for over 30 minutes an my rig never hiccupped once. I'm sure the issue will return and when it does, out comes that IF board.

I'm still puzzled about the min power output. It used to be 5 watts or less. Now, I get 25 watts with the CAR level at min. Hmmm.

73!

- Keith KD1E -

-----Original Messages-----

Keith, I'm betting you have a bad solder joint on the Connector next to L29 ...
73,
Gordon
N6WK

.....

Remove the IF board and scan the foil side for bad solder connections.
...

Vy 73, Walt N9WB

9552. Re: Survival Guide and other info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 18:10:39 UTC
From: Gordon
Topic: 9547 Message: 9552

I noticed that there are some other files in the file section that could be optimized using Acrobat Professional to reduce their size by at least a third or more very easily. The TS-830 Instruction manual and the Service manuals are good examples of that. I tested it out on the 830 Instruction manual and I dropped it's file size from 4.7 megs to 2.9 megs in about 5 seconds. The TS-830S servive manual can be reduced from over 10 megs to about 3.9 megs also. That would free up a bunch of space.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining" <n9wb@> wrote:
> >
> > This group is out of file room.
>
>
> I have uploaded the Survival Guide to the files section. It is in rich
> text format, so if you have WordPad (included in Windows) on your
> computer it should be fine. I did delete the photos of the TS820
> monitor circuit which I posted long ago. Not sure if this increased
> the available space to any great extent but the Survival Guide is now
> in the files section.
>
> Max VE3TMT
>

9553. Re: [TS-520_820_530_830] Files in group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 18:01:55 UTC
From: N6WK
Topic: 9546 Message: 9553

Hi Walt,
yes, the file can be converted to Rich-Text format and opened with
Word or wordpad.
It appears Max has already done that and uploaded it.

73,
Gordon

n9wb wrote:

> Gordon:
> I think that you are a computer person. If so, how hard is it to
> convert PDF files to something more compact. I tried to put the TS-830
> survival guide on the 520-830 file section but we are out of room. I
> hate to take member's pictures off to make more room. Could we convert
> the survival Guide and other PDF files to make more room?
>
> Walt N9WB
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9554. Re: Looking for a 1SV153

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 18:13:34 UTC
From: Gordon
Topic: 9538 Message: 9554

Thanks to EVERYONE that sent me the info on where to buy this Diode.
I appreciate everybodys help.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> East Coast Transistor has them for $1.78. Part #1SV153.
> Phone 18006453516
>
>
>
> Pete, wa2cwa
>
> On Tue, 19 Sep 2006 22:28:32 -0000 "Gordon" <n6wk@...> writes:
> > I need a 1SV153 varactor diode. Does anypone have one for sale ?
> >
> > Gordon
> > N6WK
> >
>

9555. Re: 820s blown diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-20 18:14:28 UTC
From: Gordon
Topic: 9549 Message: 9555

Ron,
check the connectors on the coil pack board to start with.

Gordon
--- In TS-520_820_530_830@yahoogroups.com, ron <ne0x@...> wrote:
>
> one night i turned on the bedside 820s and the lamps came on but no
> display and no audio, took it too work bench and checked 9 and 3.3 volt
> power, no juice, went to transformer and found 14 volts ac, checked and
> found 2 shorted diodes , replaced all 4 diodes and powerd up normally,
> now big 60 thousand buck question, all works great except when
> attenuator is engaged on all bands its normal except on ten, when u
turn
> on it actually increases signal, when disengaged it attenuates signal?
> hmmmm ron ne0x
>
> --
> ï»¿Scientific Linux, A Hoot and Free to Boot.....
>

9556. Re: TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-21 02:24:25 UTC
From: vk3bfa
Topic: 9519 Message: 9556

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Hello Folks.
> On My TS530S particularly on Strong Signals..The audio is raspy
> sounding and lacking clarity. Tries other speakers. I can improve
> things by keping the RF gain backed off but I'm sure the audio could
> be inproved..Perhaps an overload problem or AGC..Anyone elses
> experiences/advice? All the best.
> Pete G4HAK
>
Hi Pete,
first step is to see if its from the audio board or further back -
connect an audio amp (I used the "aux" input of the shack stereo) to
the input of the TS520 amp. See if the problem dissapears - then its
the audio board.

The basis of ANY fault finding is systemic elimination of causes - you
will eventually narrow it down to the "faulty" component - but first
step is to narrow it down to the faulty board/subsystem.

For what its worth, oe of my TS520's had the same - if you have a CRO,
stick it across the speaker - look for narrow, hig amplitude spikes.
Mine cured by tightening down bolts on output transistors - dont know
if the TS530 uses the same board or not.....

Let us know how you go.

73 de VK3BFA Andrew.

PS - I cant type, and my spelling is crap. Try to correct as I go, but
sometimes miss a few things. Sorry to the group. Its not a reflection
of my moral character, or an excuse to start a flame war.

9557. Re: TS530S Audio Distortion..Any advice please?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-21 02:42:39 UTC
From: Gordon
Topic: 9519 Message: 9557

Andrew,
It is the help and advice that people here are looking for.
We are not here about the spelling. We all do the best we can, but we
all make typos.
Don't worry about it.
It's the Knowledge that you share that is important.
It's good advice to isolate where the distortion is from, then trace
it down.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "vk3bfa" <woofferau@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
> <wayfound2000@> wrote:
> >
> > Hello Folks.
> > On My TS530S particularly on Strong Signals..The audio is raspy
> > sounding and lacking clarity. Tries other speakers. I can improve
> > things by keping the RF gain backed off but I'm sure the audio could
> > be inproved..Perhaps an overload problem or AGC..Anyone elses
> > experiences/advice? All the best.
> > Pete G4HAK
> >
> Hi Pete,
> first step is to see if its from the audio board or further back -
> connect an audio amp (I used the "aux" input of the shack stereo) to
> the input of the TS520 amp. See if the problem dissapears - then its
> the audio board.
>
> The basis of ANY fault finding is systemic elimination of causes - you
> will eventually narrow it down to the "faulty" component - but first
> step is to narrow it down to the faulty board/subsystem.
>
> For what its worth, oe of my TS520's had the same - if you have a CRO,
> stick it across the speaker - look for narrow, hig amplitude spikes.
> Mine cured by tightening down bolts on output transistors - dont know
> if the TS530 uses the same board or not.....
>
> Let us know how you go.
>
> 73 de VK3BFA Andrew.
>
>

> PS - I cant type, and my spelling is crap. Try to correct as I go, but
> sometimes miss a few things. Sorry to the group. Its not a reflection
> of my moral character, or an excuse to start a flame war.
>

9558. TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-21 22:26:58 UTC
From: Jack
Topic: 9558 Message: 9558

Hi everyone. By the way; this is a great group. I'm wondering about a small problem I'm having with my 820. Sometimes when operating SSB (no vox) the rig delays befor returning to the receive position. I have the VOX turned off and the delay is turned all the way down. It doesn't happen all the time but often enough to cause me to be a little concerned. Anyone else ever had this sympton?

Jack - KF4YIO

9559. Re: [TS-520_820_530_830] TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-21 23:30:46 UTC
From: Ruben Echevarria
Topic: 9558 Message: 9559

I would check the relay, maybe clean it...
Check with Gordon or Walt on this....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Jack <kf4yio@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 21, 2006 6:26:58 PM
Subject: [TS-520_820_530_830] TS-820S minor problem

Hi everyone. By the way; this is a great group. I'm wondering about a small problem I'm having with my 820. Sometimes when operating SSB (no vox) the rig delays befor returning to the receive position. I have the VOX turned off and the delay is turned all the way down. It doesn't happen all the time but often enough to cause me to be a little concerned. Anyone else ever had this sympton?

Jack - KF4YIO

[Non-text portions of this message have been removed]

9560. RE: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 00:53:01 UTC
From: Darwin, Keith
Topic: 9560 Message: 9560

Recall, I had 2 issues with my 830s. Intermittent TX and min CW output of 25 watts.

The intermittent ALC and intermittent TX was solved by removing the IF board and reflowing solder joints around the intermittent L29. Now it's as solid as a rock.

The 2nd problem was solved by balancing the carrier on SSB. It was set for LSB but too much carrier was leaking through in USB. Once I got the rig set to subdue the carrier equally in both modes, the min CW output dropped to 0.

Just for fun, I replaced all 16 of the screws that hold the case on the chasis with new SS machine screws. They work nice and look good.

This 830s is really starting to shape up to be be a nice rig!

Of course, while I had it apart I checked the plastic coupler on the bandswitch, inside the RF cage. Yep, it's cracked but is still working. Time to get a new one.

73 all!

- Keith KD1E -

From: TS-520_820_530_830@yahoogroups.com on behalf of Darwin, Keith
Sent: Wed 9/20/2006 7:25 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: 830s ALC problems - help?

Thanks Gordon & Walt!

I've been thinking my next step would be checking / redoing the solder joints in the region around L29 and the neighboring connectors so you're suggestions are right in line with my plans.

Of course last night the rig worked 100%. Had a QSO with a guy nr Chicago. We chatted on CW, he on paddles, me zipping along with my straight key, for over 30 minutes an my rig never hiccupped once. I'm sure the issue will return and when it does, out comes that IF board.

I'm still puzzled about the min power output. It used to be 5 watts or less. Now, I get 25 watts with the CAR level at min. Hmmm.

73!

- Keith KD1E -

-----Original Messages-----

Keith, I'm betting you have a bad solder joint on the Connector next to
L29 ...
73,
Gordon
N6WK

.....

Remove the IF board and scan the foil side for bad solder connections.
...

Vy 73, Walt N9WB

Yahoo! Groups Links

[Non-text portions of this message have been removed]

9561. Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 01:06:49 UTC
From: Gordon
Topic: 9560 Message: 9561

Thanks for the Update Keith.
Good Fix.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:
>
> Recall, I had 2 issues with my 830s. Intermittent TX and min CW
output of 25 watts.
>
> The intermittent ALC and intermittent TX was solved by removing the
IF board and reflowing solder joints around the intermittent L29. Now
it's as solid as a rock.
>
> The 2nd problem was solved by balancing the carrier on SSB. It was
set for LSB but too much carrier was leaking through in USB. Once I
got the rig set to subdue the carrier equally in both modes, the min
CW output dropped to 0.
>
> Just for fun, I replaced all 16 of the screws that hold the case on
the chasis with new SS machine screws. They work nice and look good.
>
> This 830s is really starting to shape up to be be a nice rig!
>
> Of course, while I had it apart I checked the plastic coupler on the
bandswitch, inside the RF cage. Yep, it's cracked but is still
working. Time to get a new one.
>
> 73 all!
>
> - Keith KD1E -
>
>

9562. Re: TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 00:57:55 UTC
From: Gordon
Topic: 9558 Message: 9562

Ruben,
I also was thinking of a sticking Relay or a sticking Mic switch.
I personally have never run into this particular problem.

Gordon

-- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> I would check the relay, maybe clean it...
> Check with Gordon or Walt on this....
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: Jack <kf4yio@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, September 21, 2006 6:26:58 PM
> Subject: [TS-520_820_530_830] TS-820S minor problem
>
> Hi everyone. By the way; this is a great group. I'm wondering about
> a small problem I'm having with my 820. Sometimes when operating SSB
> (no vox) the rig delays befor returning to the receive position. I
> have the VOX turned off and the delay is turned all the way down. It
> doesn't happen all the time but often enough to cause me to be a
> little concerned. Anyone else ever had this sympton?
>
> Jack - KF4YIO
>
>
>
>
> [Non-text portions of this message have been removed]
>

9563. Shrinking file size

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 01:00:15 UTC
From: Gordon
Topic: 9563 Message: 9563

I was able to take the TS-830 Manuals on our file page and shrink them considerably in size by using Adobe Acrobat writer. So now instead of only having 1% of file space available, we now have 40% available.

Gordon
N6WK

9564. Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 02:24:45 UTC
From: Art
Topic: 9560 Message: 9564

Hi Keith, When you want to change the coupler I would suggest the couplers from K4EAA. I put one of these in my TS-830S and it works fantastic. Go to his web site and he has pictures of them for you to view. Congratulations on getting your rig working.

73
Art
WB4MNK

Darwin, Keith wrote:
>
> Recall, I had 2 issues with my 830s. Intermittent TX and min CW output
> of 25 watts.
>
> The intermittent ALC and intermittent TX was solved by removing the IF
> board and reflowing solder joints around the intermittent L29. Now
> it's as solid as a rock.
>
> The 2nd problem was solved by balancing the carrier on SSB. It was set
> for LSB but too much carrier was leaking through in USB. Once I got
> the rig set to subdue the carrier equally in both modes, the min CW
> output dropped to 0.
>
> Just for fun, I replaced all 16 of the screws that hold the case on
> the chasis with new SS machine screws. They work nice and look good.
>
> This 830s is really starting to shape up to be be a nice rig!
>
> Of course, while I had it apart I checked the plastic coupler on the
> bandswitch, inside the RF cage. Yep, it's cracked but is still
> working. Time to get a new one.
>
> 73 all!
>
> - Keith KD1E -
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com> on behalf of Darwin, Keith
> Sent: Wed 9/20/2006 7:25 AM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: RE: [TS-520_820_530_830] Re: 830s ALC problems - help?
>

> Thanks Gordon & Walt!
>
> I've been thinking my next step would be checking / redoing the solder
> joints in the region around L29 and the neighboring connectors so you're
> suggestions are right in line with my plans.
>
> Of course last night the rig worked 100%. Had a QSO with a guy nr
> Chicago. We chatted on CW, he on paddles, me zipping along with my
> straight key, for over 30 minutes an my rig never hiccupped once. I'm
> sure the issue will return and when it does, out comes that IF board.
>
> I'm still puzzled about the min power output. It used to be 5 watts or
> less. Now, I get 25 watts with the CAR level at min. Hmmm.
>
> 73!
>
> - Keith KD1E -
>
> -----Original Messages-----
>
> Keith, I'm betting you have a bad solder joint on the Connector next to
> L29 ...
> 73,
> Gordon
> N6WK
>
> ....
>
> Remove the IF board and scan the foil side for bad solder connections.
> ...
>
> Vy 73, Walt N9WB
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>
> --
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.405 / Virus Database: 268.12.6/453 - Release Date: 9/20/2006
>

9565. Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 02:42:43 UTC
From: David Rust
Topic: 9560 Message: 9565

Those couplers from K4EAA work great, and are easy to put in. Only problem was I didn't pay attention and got the shafts of either 1/4 or 1/2 turn. Took some doing to get it figured out, so watch how it comes off.
73 Dave

[Non-text portions of this message have been removed]

9566. Re: [TS-520_820_530_830] TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 10:54:10 UTC
From: n9wb
Topic: 9558 Message: 9566

I am betting that a relay contact needs cleaning. Walt N9WB
----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 21, 2006 6:30 PM
Subject: Re: [TS-520_820_530_830] TS-820S minor problem

I would check the relay, maybe clean it...
Check with Gordon or Walt on this....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Jack <kf4yio@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 21, 2006 6:26:58 PM
Subject: [TS-520_820_530_830] TS-820S minor problem

Hi everyone. By the way; this is a great group. I'm wondering about
a small problem I'm having with my 820. Sometimes when operating SSB
(no vox) the rig delays befor returning to the receive position. I
have the VOX turned off and the delay is turned all the way down. It
doesn't happen all the time but often enough to cause me to be a
little concerned. Anyone else ever had this sympton?

Jack - KF4YIO

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.6/453 - Release Date: 9/20/06

[Non-text portions of this message have been removed]

9567. Re: [TS-520_820_530_830] Shrinking file size

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 10:56:00 UTC
From: n9wb
Topic: 9563 Message: 9567

Thank you very much. We appreciate you. Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 21, 2006 8:00 PM
Subject: [TS-520_820_530_830] Shrinking file size

I was able to take the TS-830 Manuals on our file page and shrink them considerably in size by using Adobe Acrobat writer. So now instead of only having 1% of file space available, we now have 40% available.

Gordon
N6WK

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.6/453 - Release Date: 9/20/06

[Non-text portions of this message have been removed]

9568. Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 10:56:30 UTC
From: max_ve3tmt
Topic: 9560 Message: 9568

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

> Just for fun, I replaced all 16 of the screws that hold the case on
the chasis with new SS machine screws. They work nice and look good.

Keith,

What size screws did you use and where did you find them?

Max

9569. RE: [TS-520_820_530_830] Case screw sizes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 12:25:14 UTC
From: Darwin, Keith
Topic: 9569 Message: 9569

Hi Max (& the group).

The sizes were metric. 4mm x 0.7. Length measures 7/32" which works out to 5.5mm. I bet they're called 6 mm long.

I got them for $0.40 ea (ouch) at my local small town hardware chain store - Aubuchons Hardware. Home Despot didn't have any that I could find.

- Keith -

From: TS-520_820_530_830@yahoogroups.com on behalf of max_ve3tmt
Sent: Fri 9/22/2006 6:56 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

> Just for fun, I replaced all 16 of the screws that hold the case on
the chasis with new SS machine screws. They work nice and look good.

Keith,

What size screws did you use and where did you find them?

Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

9570. Painting the cabinets..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 12:24:23 UTC
From: max_ve3tmt
Topic: 9570 Message: 9570

I have been tossing around the idea of repainting my 830, tuner and speaker, but I think I want to go with the newer Kenwood color like the 850's. Would I be able to paint over the existing color after giving it a light sanding for the paint to take. We have a paint booth here at work that will make the job much easier.

Max

9571. case paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 13:30:41 UTC
From: John Becker
Topic: 9571 Message: 9571

Has anyone found a match for that kenwook gray?
I know a fellow that did try to find it about 18 years
ago and ended up with John Deer green since he
was repainting a old JD tractor at the time.

John, W0JAB

[If you run across that JD green 520 I can tell you
about its life.]

9572. RE: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 14:24:21 UTC
From: Rick May
Topic: 9560 Message: 9572

Hi Keith,

I had the same problem balancing my carrier with one of my 830S' and replaced the cheap 1K60 diodes in the balanced modulator with Shottkey 1N5711 diodes. I also replaced the same type diodes in the product detector with the 5711's and dramatically reduced the annoying background noise. The receiver is as quiet as my Icom 765 now.

73' Rick KC0HH
Lamar, Colorado

"Darwin, Keith" <keith.darwin@...> wrote: Recall, I had 2 issues with my 830s. Intermittent TX and min CW output of 25 watts.

The intermittent ALC and intermittent TX was solved by removing the IF board and reflowing solder joints around the intermittent L29. Now it's as solid as a rock.

The 2nd problem was solved by balancing the carrier on SSB. It was set for LSB but too much carrier was leaking through in USB. Once I got the rig set to subdue the carrier equally in both modes, the min CW output dropped to 0.

Just for fun, I replaced all 16 of the screws that hold the case on the chasis with new SS machine screws. They work nice and look good.

This 830s is really starting to shape up to be be a nice rig!

Of course, while I had it apart I checked the plastic coupler on the bandswitch, inside the RF cage. Yep, it's cracked but is still working. Time to get a new one.

73 all!

- Keith KD1E -

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9573. Re: [TS-520_820_530_830] Files in group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 14:14:56 UTC
From: John Becker
Topic: 9546 Message: 9573

I have noticed that the text files could use a bit
of editing. Word warp does not work on these.
It would be very helpful if the "enter" key was
used from time to time keeping us from
having to scroll left to right a lot.

Sorry just one of my pet peeves..

9574. Re: [TS-520_820_530_830] case paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 14:14:16 UTC
From: Rick May
Topic: 9571 Message: 9574

Hello,

Ken, K4EAA has small bottles of the dark gray color for the face of the Kenwood hybirds for sale on his web site.. There is a guy in Missouri that sells the correct color for the Kenwood cabinets in an aerosol spray can. Link is to his E-Bay auction...
http://cgi.ebay.com/Kenwood-TS-520-530S-820-820S-830-830S-930S-Paint_W0QQitemZ180029034459QQihZ008QQcategoryZ4671QQssPageNameZWDVWQQrdZ1QQcmdZViewItem?hash=item180029034459

73' Rick KC0HH

John Becker <jab@...> wrote: Has anyone found a match for that kenwook gray?
I know a fellow that did try to find it about 18 years
ago and ended up with John Deer green since he
was repainting a old JD tractor at the time.

John, W0JAB

73' Rick KC0HH
Lamar, Colorado

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9575. Re: TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 14:38:41 UTC
From: Jack
Topic: 9558 Message: 9575

Thanks to all. I'll pull the relay and give it a good cleaning. If
no results I'll check the mic switch. Thanks again and I'll post back
with results.

73 - Jack

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi everyone. By the way; this is a great group. I'm wondering about
> a small problem I'm having with my 820. Sometimes when operating SSB
> (no vox) the rig delays befor returning to the receive position. I
> have the VOX turned off and the delay is turned all the way down. It
> doesn't happen all the time but often enough to cause me to be a
> little concerned. Anyone else ever had this sympton?
>
> Jack - KF4YIO
>

9576. Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 16:23:56 UTC
From: Ruben Echevarria
Topic: 9560 Message: 9576

Hi Rick by any chance did you or can you put together a detailed paper on your mods? It would go great with the rest of the data we already have on rigs. Include any do's and don'ts. I'm sure there are quite a few of us that may be interested in your mods.

And Keith nice to hear you have your ALC problem under control. Now that my number 1 TS830S is still apart I may just go ahead and reflow each and every solder point on the IF board. I only did a few and it brought the RX back up. But I still can't get any decent ALC. The RF board is out right now and am waiting for some caps.

Best 73 To All Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Rick May <kc0hh@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 22, 2006 10:24:21 AM
Subject: RE: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Hi Keith,

I had the same problem balancing my carrier with one of my 830S' and replaced the cheap 1K60 diodes in the balanced modulator with Shottkey 1N5711 diodes. I also replaced the same type diodes in the product detector with the 5711's and dramatically reduced the annoying background noise. The receiver is as quiet as my Icom 765 now.

73' Rick KC0HH
Lamar, Colorado

"Darwin, Keith" <keith.darwin@ goodrich. com> wrote: Recall, I had 2 issues with my 830s. Intermittent TX and min CW output of 25 watts.

The intermittent ALC and intermittent TX was solved by removing the IF board and reflowing solder joints around the intermittent L29. Now it's as solid as a rock.

The 2nd problem was solved by balancing the carrier on SSB. It was set for LSB but too much carrier was leaking through in USB. Once I got the rig set to subdue the carrier equally in both modes, the min CW output dropped to 0.

Just for fun, I replaced all 16 of the screws that hold the case on the chasis with new SS machine screws. They work nice and look good.

This 830s is really starting to shape up to be be a nice rig!

Of course, while I had it apart I checked the plastic coupler on the bandswitch, inside the RF cage. Yep, it's cracked but is still working. Time to get a new one.

73 all!

- Keith KD1E -

------------ --------- --------- ---
All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9577. Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 21:15:20 UTC
From: Rick May
Topic: 9560 Message: 9577

Hi Ruben,

The Shottkey diode mods are explained and outlined nicely by Rich Measures, AG6K, in his 'Circuit Improvements and Maintenance Procedures for the 830S' and is in the 'Survival Guide' listed in the files section.
It really is an amazing improvement. Gordon, N6WK, has some of the 1N5711 diodes but I don't know if he has had a chance to swap his out yet.

73' Rick KC0HH
Lamar, Colorado

Ruben Echevarria <ka2hhb_2000@...> wrote: Hi Rick by any chance did you or can you put together a detailed paper
on your mods? It would go great with the rest of the data we already
have on rigs. Include any do's and don'ts. I'm sure there are quite a few
of us that may be interested in your mods.

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9578. RE: [TS-520_820_530_830] Case screw sizes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 22:38:16 UTC
From: John Harp
Topic: 9569 Message: 9578

I have a hard time finding things at Home Despot and I used to work there.

"Darwin, Keith" <keith.darwin@...> wrote: Hi Max (& the group).

The sizes were metric. 4mm x 0.7. Length measures 7/32" which works out to 5.5mm. I bet they're called 6 mm long.

I got them for $0.40 ea (ouch) at my local small town hardware chain store - Aubuchons Hardware. Home Despot didn't have any that I could find.

- Keith -

From: TS-520_820_530_830@yahoogroups.com on behalf of max_ve3tmt
Sent: Fri 9/22/2006 6:56 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

> Just for fun, I replaced all 16 of the screws that hold the case on
the chasis with new SS machine screws. They work nice and look good.

Keith,

What size screws did you use and where did you find them?

Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9579. RE: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-22 22:29:07 UTC
From: John Harp
Topic: 9560 Message: 9579

Kieth, you know where to get one, right?

"Darwin, Keith" <keith.darwin@...> wrote: Recall, I had 2 issues with my 830s. Intermittent TX and min CW output of 25 watts.

The intermittent ALC and intermittent TX was solved by removing the IF board and reflowing solder joints around the intermittent L29. Now it's as solid as a rock.

The 2nd problem was solved by balancing the carrier on SSB. It was set for LSB but too much carrier was leaking through in USB. Once I got the rig set to subdue the carrier equally in both modes, the min CW output dropped to 0.

Just for fun, I replaced all 16 of the screws that hold the case on the chasis with new SS machine screws. They work nice and look good.

This 830s is really starting to shape up to be be a nice rig!

Of course, while I had it apart I checked the plastic coupler on the bandswitch, inside the RF cage. Yep, it's cracked but is still working. Time to get a new one.

73 all!

- Keith KD1E -

From: TS-520_820_530_830@yahoogroups.com on behalf of Darwin, Keith
Sent: Wed 9/20/2006 7:25 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Re: 830s ALC problems - help?

Thanks Gordon & Walt!

I've been thinking my next step would be checking / redoing the solder joints in the region around L29 and the neighboring connectors so you're suggestions are right in line with my plans.

Of course last night the rig worked 100%. Had a QSO with a guy nr Chicago. We chatted on CW, he on paddles, me zipping along with my straight key, for over 30 minutes an my rig never hiccupped once. I'm sure the issue will return and when it does, out comes that IF board.

I'm still puzzled about the min power output. It used to be 5 watts or less. Now, I get 25 watts with the CAR level at min. Hmmm.

73!

- Keith KD1E -

-----Original Messages-----

Keith, I'm betting you have a bad solder joint on the Connector next to
L29 ...
73,
Gordon
N6WK

.....

Remove the IF board and scan the foil side for bad solder connections.
...

Vy 73, Walt N9WB

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9580. Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 01:53:33 UTC
From: Bill Scurlock
Topic: 9560 Message: 9580

Rick,

Since you put out the info on 1N5711's a few weeks ago, I have replaced the 1N60's in the product detectors and balanced modulators in 3 radios - One TS-530S, and two TS-830S's. I have no technical comparisons for you, but I have been very pleased with how the radios sound after the mods. In one of the 830's, I added the 100 ohm resistor (per AG6K) and the results came out fine even though I was not experiencing any distortion problems before. It was fun figuring out how to adjust L19 and L20 to achieve USB/LSB balance at 600mv, but I finally got there. Thanks for encouraging us with these radios.

73, Bill, K5GCW
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 22, 2006 4:15 PM
Subject: Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Hi Ruben,

The Shottkey diode mods are explained and outlined nicely by Rich Measures, AG6K, in his 'Circuit Improvements and Maintenance Procedures for the 830S' and is in the 'Survival Guide' listed in the files section.
It really is an amazing improvement. Gordon, N6WK, has some of the 1N5711 diodes but I don't know if he has had a chance to swap his out yet.

73' Rick KC0HH
Lamar, Colorado

Ruben Echevarria <ka2hhb_2000@...> wrote: Hi Rick by any chance did you or can you put together a detailed paper
on your mods? It would go great with the rest of the data we already
have on rigs. Include any do's and don'ts. I'm sure there are quite a few
of us that may be interested in your mods.

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9581. Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 03:49:48 UTC
From: max_ve3tmt
Topic: 9581 Message: 9581

I have posted some pics of the gear with its new paint job. The color used is Gunmetal, which is just slightly darker than the TS850 color. I think it turned out quite well. I also used new hardware on the 830. Just my luck the S-meter bulb burnt out when I was assembling so I picked up a 12V replacement at Radio Shack. I see they also have bright white LED's there, and if anyone can tell me what resistor value I would need to make it work for the S-meter it would be appreciated. Thought you might be interested to see the 830 in its new skin. They're all in the VE3TMT folder.

Max

9582. Re: Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 04:08:25 UTC
From: Gordon
Topic: 9581 Message: 9582

Max,
They look GREAT. Nice job.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> I have posted some pics of the gear with its new paint job. The color
> used is Gunmetal, which is just slightly darker than the TS850 color.
> I think it turned out quite well. I also used new hardware on the 830.
> Just my luck the S-meter bulb burnt out when I was assembling so I
> picked up a 12V replacement at Radio Shack. I see they also have
> bright white LED's there, and if anyone can tell me what resistor
> value I would need to make it work for the S-meter it would be
> appreciated. Thought you might be interested to see the 830 in its new
> skin. They're all in the VE3TMT folder.
>
> Max
>

9583. Re: [TS-520_820_530_830] Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 04:21:33 UTC
From: Rick May
Topic: 9581 Message: 9583

Hi Max,
Wow, the paint job and color are great....Will my Toyota 4Runner fit in your paint booth? Hmmm, I wonder how far Kingston, Ontario is from me in Colorado.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: I have posted some pics of the gear with its new paint job. The color
used is Gunmetal, which is just slightly darker than the TS850 color.
I think it turned out quite well. I also used new hardware on the 830.
Just my luck the S-meter bulb burnt out when I was assembling so I
picked up a 12V replacement at Radio Shack. I see they also have
bright white LED's there, and if anyone can tell me what resistor
value I would need to make it work for the S-meter it would be
appreciated. Thought you might be interested to see the 830 in its new
skin. They're all in the VE3TMT folder.

Max

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9584. Re: [TS-520_820_530_830] Re: 830s ALC problems - help? - Solved!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 04:28:15 UTC
From: Rick May
Topic: 9560 Message: 9584

Hi Bill,

I don't have any real way to do technical comparisons here either. The receivers just have a much smoother sound. I also used to have at least S4 or S5 noise level on the lower bands and I am listening to a Swiss station on 40 meters working the U.S. east coast right now (04:30 UTC) and my noise level is bouncing between S1 and S3...Very quiet.

73' Rick KC0HH

Bill Scurlock <k5gcw@...> wrote: Rick,

Since you put out the info on 1N5711's a few weeks ago, I have replaced the 1N60's in the product detectors and balanced modulators in 3 radios - One TS-530S, and two TS-830S's. I have no technical comparisons for you, but I have been very pleased with how the radios sound after the mods. In one of the 830's, I added the 100 ohm resistor (per AG6K) and the results came out fine even though I was not experiencing any distortion problems before. It was fun figuring out how to adjust L19 and L20 to achieve USB/LSB balance at 600mv, but I finally got there. Thanks for encouraging us with these radios.

73, Bill, K5GCW

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9585. Re: [TS-520_820_530_830] Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 06:22:42 UTC
From: Ruben Echevarria
Topic: 9581 Message: 9585

Beautiful job Max.....Hats off to you KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: max_ve3tmt <max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 22, 2006 11:49:48 PM
Subject: [TS-520_820_530_830] Pictures posted showing new paint

I have posted some pics of the gear with its new paint job. The color used is Gunmetal, which is just slightly darker than the TS850 color. I think it turned out quite well. I also used new hardware on the 830. Just my luck the S-meter bulb burnt out when I was assembling so I picked up a 12V replacement at Radio Shack. I see they also have bright white LED's there, and if anyone can tell me what resistor value I would need to make it work for the S-meter it would be appreciated. Thought you might be interested to see the 830 in its new skin. They're all in the VE3TMT folder.

Max

[Non-text portions of this message have been removed]

9586. Re: [TS-520_820_530_830] Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 12:05:20 UTC
From: n9wb
Topic: 9581 Message: 9586

Max:
They really look good like that. Who made the gunmetal paint? Now you need a TL-922 amp to go with it. Hi.
Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 22, 2006 10:49 PM
Subject: [TS-520_820_530_830] Pictures posted showing new paint

I have posted some pics of the gear with its new paint job. The color used is Gunmetal, which is just slightly darker than the TS850 color. I think it turned out quite well. I also used new hardware on the 830. Just my luck the S-meter bulb burnt out when I was assembling so I picked up a 12V replacement at Radio Shack. I see they also have bright white LED's there, and if anyone can tell me what resistor value I would need to make it work for the S-meter it would be appreciated. Thought you might be interested to see the 830 in its new skin. They're all in the VE3TMT folder.

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.7/454 - Release Date: 9/21/06

[Non-text portions of this message have been removed]

9587. Re: Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 13:03:00 UTC
From: max_ve3tmt
Topic: 9581 Message: 9587

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> They really look good like that. Who made the gunmetal paint? Now
you need a TL-922 amp to go with it. Hi.
> Vy 73, Walt N9WB
>

The paint is from my local Canadian Tire store Walt. One can did all
three pieces. now i just have to be careful not to scratch it!!

Max

9588. Re: [TS-520_820_530_830] Re: Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 14:44:07 UTC
From: n9wb
Topic: 9581 Message: 9588

What is the brand name? In 6 months it will be much harder and less likely to scratch. Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 23, 2006 8:03 AM
Subject: [TS-520_820_530_830] Re: Pictures posted showing new paint

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> They really look good like that. Who made the gunmetal paint? Now
you need a TL-922 amp to go with it. Hi.
> Vy 73, Walt N9WB
>

The paint is from my local Canadian Tire store Walt. One can did all
three pieces. now i just have to be careful not to scratch it!!

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.7/454 - Release Date: 9/21/06

[Non-text portions of this message have been removed]

9589. Re: Pictures posted showing new paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 14:00:23 UTC
From: max_ve3tmt
Topic: 9581 Message: 9589

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> What is the brand name?

Walt,

The name on the can is Dupli Color Truck, Van and SUV paint. I'm sure you can also get it at Home Depot or Lowe's. I have to admit after much debate whether to paint or not I'm glad I did. It reallt gives the gear a modern look. I still have to pick up the paint for the front panel as I have a few nicks on it. I am going to pick up the bright white LED at Radi Shack today and swap it out for the meter bulb. The 12V lamp I put in isn't as bright as the original, which I though was a bit dim to begin with.

MAx

9590. Painting Options

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-23 18:17:56 UTC
From: Ruben Echevarria
Topic: 9590 Message: 9590

Here's a option for painting our radios that will last forever...
It's called powder coating....It's almost like electroplating but it's done with paint powder. The piece is charged electrically and then color is sprayed dry. Then it's heated to a certain temp and it hardens to a very hard finish. Different textures can also be duplicated. Piece becomes scratch proof and will forever look like new. This process is used by many custom motorcycle builders and racer car builders as well. Try " Google-ing" powder coating and see what you get. As far as removing paint from our panels I would use a chemical remover and not a sand blaster, the blaster in my opinion would distort the thin sheetmetal.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

9591. Diode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-24 13:06:33 UTC
From: w5rkl
Topic: 9591 Message: 9591

Someone was requsting information about series resistors for powering
LED's. The below link should help.

http://ourworld.compuserve.com/homepages/Bill_Bowden/led.htm

73's

Mike
W5RKL

9592. Re: Diode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-24 16:13:02 UTC
From: max_ve3tmt
Topic: 9591 Message: 9592

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

The below link should help.

Hey Mike, that was me. Thanks very much. I am going with a bright white LED behind the meter. I will use two 1K resisitors in parallel. The resultant 500 ohms is a bit high (target is 430) but shouldn't pose a problem with the LED. My meter bulb burnt out so I put a Radio Shack 12V light in there but it is too dim. Not like the TS520 I used to have the meter on those is perfect. I have been looking at the meter in the AT230 to see if I could put an LED in there, but by shingin a light on the back of the meter I don't see how any light can penetrate to show out the front. The meters on my old FT107 line all had small bulbs mounted in the meter face itself below the coil. Not much room in the AT230 for that.

Max

9593. RE: [TS-520_820_530_830] TS830S No Drive on 30m -- Solution!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-24 20:21:41 UTC
From: Ron Hauser
Topic: 7936 Message: 9593

Success! It is always the too-easy stuff that one misses.

Summary: No drive on 30m, no power output. Carrier is heard on an adjacent receiver in transmit, and signals are heard when listening. Drive control peaks the received signal. Tracing with an RF probe from the driver tube over to the final board, there is a signal there but not the level that is present on other bands. The not-right level is the same all the way to the final board. Bandswitch checks out ok.

It turns out that the tuning slug for the drive coil on 30m was turned way way out (L26 on the RF board). Adjusting the drive coil according to the operator manual brought the drive up and I now have full 100w out. One wonders _why_ the coil was so far out of adjustment, perhaps the capacitor C35 has gone out of tolerance... Or something. The other coils are not out that far. I'll have to watch it for a bit, but I am putting it back on the air and I'll see if I have issues cropping back up.

Thanks to this group for the coaching!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Sunday, September 17, 2006 10:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS830S No Drive on 30m

Continuation of my slow troubleshooting, I got to spend some more time on the workbench this weekend.

Walt asked if I had a carrier that I could hear on a nearby receiver when in transmit: Yes. I took an SWL radio and listened, when transmitting in Tune position I can hear the carrier on 30m (also on 20m and 40m).

Clif suggested no load, so look further downstream, possibly bandswitch. I put my RF probe on the connection point where the drive signal wire goes into the final board. When switching to transmit in tune position:

20m peaks up to ~25v then settles down to ~3v
40m peaks up to ~25v then settles down to ~3v
30m rises smoothly to 5v with no peak.

What I want to do now is to see if the drive signal is actually getting to the tube, which I think would verify that the bandswitch is the problem.

However, I am being very very cautious poking at the bottom of the finals because of the high voltage. After careful scrutiny of the board drawing and schematic I think I am expecting to see the drive signal on pin 5 of the final socket. Can anyone verify before I poke a probe into a high voltage circuit?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Saturday, August 26, 2006 9:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Greetings Kenwood Gurus. About two months ago I was working along with Joe Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO. Bill helped get me set up with a VTVM, I eventually got an RF probe made, and finally I have done some testing.

The problem:

I have a TS830S that I got from the previous owner about a year ago. There is no drive at all on 30m, no matter the position of the drive control knob (also no RF out). All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal.

Based on Joan's problem with a missing band, I tested C74 and L36 on the RF board. I believe that both these components are ok -- L36 showed right at the 4 ohms level Joan was looking for, and C74 is not shorted and doesn't look burned or anything.

I then took Joe's advice and attempted to measure the RF voltage on the grid of the driver tube. I believe this is a promising path, but I must first verify that I measured on the _correct_ pin. So. I have the radio sitting right side up on the bench with the covers off, the RF board is exposed and the driver tube is right there in the middle. I'm looking down at the tube/socket from above -- actually I am also looking at the board layout diagram in the service manual, which is the same orientation of course. I'm a little fuzzy on the "proper" numbering order of the pins. But anyway in this orientation the gap with no pins is at 9 oclock. There is a pin at 8 oclock, one at 7 oclock, one at five oclock. After staring at the diagrams and thinking about it for a while, I believe the pin at 7 oclock is the one

that I want. So I put the rf probe on that pin and with the rig in tune, I switched to send and indeed I got RF.

Question #1. Am I on the right pin (or if not what am I measuring!?!)

Question #2. If I am on the right pin, I have an interesting result, because the RF voltage is not the same. At 14110 kHz I got 1.5 V. At 7110 kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Wednesday, June 07, 2006 11:05 PM
To: 'joe sloss'
Cc: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]

Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the
BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then
your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are
having. I think I've deleted some of your earlier comments on what was
wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?
>

> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.
>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]
>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power
>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one
>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a
>> copper trace and silver connector held together with a tin rivit. This

>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

9594. Re: [TS-520_820_530_830] TS830S No Drive on 30m -- Solution!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-24 20:55:42 UTC
From: David Rust
Topic: 7936 Message: 9594

No drive on 30m, no power output.

Somone might have slipped a different crystal in it and tried retuning it for CB? Just a guess.
Dave

[Non-text portions of this message have been removed]

9595. Re: 520 rig offered for sale.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 02:45:01 UTC
From: catboat15@aol.com
Topic: 9595 Message: 9595

I see on a group called MOPA here on Yahoo some one is offering a 520 said to be in excellent shape for a couple hundred bucks. You might want to take a look.

[Non-text portions of this message have been removed]

9596. Re: 520 rig offered for sale.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 03:52:15 UTC
From: digs4ruff
Topic: 9595 Message: 9596

--- In TS-520_820_530_830@yahoogroups.com, catboat15@... wrote:
>
> I see on a group called MOPA here on Yahoo some one is offering a
520 said
> to be in excellent shape for a couple hundred bucks. You might want
to take a
> look.
>
>
> [Non-text portions of this message have been removed]
>
So maybe provide a link.
thanks
Barry

9597. TS830 Sales Brochure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 12:13:58 UTC
From: max_ve3tmt
Topic: 9597 Message: 9597

Of interest....Ken, K4EAA has posted the original TS830 sales brochure on his website www.k4eaa.com I plan on having it printed out in color at my local staples and laminated. It makes a great addition to my 830 literature.

Max VE3TMT

9598. RF Board Prep

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 13:11:06 UTC
From: Ruben Echevarria
Topic: 9598 Message: 9598

I just wanted to post this message to the out group here.
After cleaning my RF board before replacing a few components, using
a magnifying glass I went over every single solder point on the foil side
and to my surprise I found several components that were loose, so I
proceeded to reflow the points. Although the points looked good and
strong they were not. Don't take anything for granted even though it they
may look good and strong. Once I'm done with this board I'll be doing the
same to the IF board. Although I previously did do the IF board, the solder
points on the connectors and it did cure part of my RX problem and the ALC
came up a bit. I feel the prudent thing to do is the complete board.
Well I'll keep everyone posted.......KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

9599. Re: RF Board Prep

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 13:31:19 UTC
From: max_ve3tmt
Topic: 9598 Message: 9599

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:

Although I previously did do the IF board, the solder points on the connectors and it did cure part of my RX problem and the ALC came up a bit. I feel the prudent thing to do is the complete board.

I noticed the same thing on my 830. While removing the connectors to pull the board, some of the board mounted pieces came right off the board. I resoldered all the pins on all connectors. I haven't tackled the RF board yet but I'm sure they probably all need it.

Max

9600. Re: [TS-520_820_530_830] Re: RF Board Prep

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 13:48:58 UTC
From: Ruben Echevarria
Topic: 9598 Message: 9600

I can almost gurantee it after going through the process with mine. Seems that the constant thermal cycles cause the solder joints to loosen up. Although almost microscopic in nature the cracks are there. So if anyone pulls these boards on their rigs just redo them. The time spent is not all that bad, and the rewards are priceless...KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: max_ve3tmt <max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 25, 2006 9:31:19 AM
Subject: [TS-520_820_530_830] Re: RF Board Prep

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria <ka2hhb_2000@ ...> wrote:

Although I previously did do the IF board, the solder points on the connectors and it did cure part of my RX problem and the ALC came up a bit. I feel the prudent thing to do is the complete board.

I noticed the same thing on my 830. While removing the connectors to pull the board, some of the board mounted pieces came right off the board. I resoldered all the pins on all connectors. I haven't tackled the RF board yet but I'm sure they probably all need it.

Max

[Non-text portions of this message have been removed]

9601. CW Filter for 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 13:56:06 UTC
From: digs4ruff
Topic: 9601 Message: 9601

Does anyone have a well used CW filter for the 820S that they would
part with at a reasonable (read cheap) cost
thanks
Barry
VA7GEM

9602. Re: RF Board Prep

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 13:59:05 UTC
From: max_ve3tmt
Topic: 9598 Message: 9602

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> I can almost gurantee it after going through the process with mine.
> Seems that the constant thermal cycles cause the solder joints to
> loosen up. Although almost microscopic in nature the cracks are there.
> So if anyone pulls these boards on their rigs just redo them. The time
> spent is not all that bad, and the rewards are priceless...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com

Ruben,

Do you have to remove the bandswitch shaft to pull the RF board? I
haven't had any problems yet but I am sure it is only a matter of time!

Max

9603. Re: [TS-520_820_530_830] Re: RF Board Prep

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 14:27:16 UTC
From: Ruben Echevarria
Topic: 9598 Message: 9603

The bandswitch can be left in place, just place it in the #10 spot pull the cover off the cage and
lossen the setscrew on the coupler. Slide the shaft out enough to clear the cage. While there take
a good look at the plastic coupler and check it for cracks. If cracked replace it with one from K4EAA.
Should be about 8 screws holding the board to the chassis. Desolder the white wire from the feedthrough
coming from the cage. You'll also come across a blue wire soldered to a pad underneath the board, desolder
as well. Use a marker and circle the pad that the blue wire was attached to. Using a fine tip felt marker
number each pushin connector 1 thru 10 one at a time as you pull them out. What I did was draw a sketch
of the board showing the connectors and numbered each connector accordingly. So all I have to do is refer
back to my sketch and just place each connector back in the corresponding pin strip. and of course resolder
the white and blue wires. By the way I did pull out the "LOAD" shaft out completely. I use alcohol to clean the board first then checked it all out. Afterwards I reflowed all the solder points.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: max_ve3tmt <max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 25, 2006 9:59:05 AM
Subject: [TS-520_820_530_830] Re: RF Board Prep

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> I can almost gurantee it after going through the process with mine.
> Seems that the constant thermal cycles cause the solder joints to
> loosen up. Although almost microscopic in nature the cracks are there.
> So if anyone pulls these boards on their rigs just redo them. The time
> spent is not all that bad, and the rewards are priceless... KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> exracer1@...
> www.OneMillionAwake .com

Ruben,

Do you have to remove the bandswitch shaft to pull the RF board? I haven't had any problems yet but I am sure it is only a matter of time!

Max

[Non-text portions of this message have been removed]

9604. Re: TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 19:02:01 UTC
From: Jack
Topic: 9558 Message: 9604

Hi Guys and Gals. Well, the relay was sticking. After a good
cleaning and checking, all is well again.

Thanks to all.

PS: Is there a 40M or any Kenwood 520/820/530/830 net????

73 - Jack

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi everyone. By the way; this is a great group. I'm wondering about
> a small problem I'm having with my 820. Sometimes when operating SSB
> (no vox) the rig delays befor returning to the receive position. I
> have the VOX turned off and the delay is turned all the way down. It
> doesn't happen all the time but often enough to cause me to be a
> little concerned. Anyone else ever had this sympton?
>
> Jack - KF4YIO
>

9605. Re: [TS-520 smoked

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 19:13:57 UTC
From: David Rust
Topic: 9605 Message: 9605

I have a 520SE I bought a couple weeks ago. Good looking old radio, clean and free of crud on the chassis. Tuned and loaded it up last evening on 75 meters, the output was low, I switched it to CW position, repeaked the drive, dipped the plate, and saw the output gradually come up. Within a second or two it popped and went dark. There was a zzzttttt noise under the chassis. (How do you like that for a description) I haven't went any farther, suspect it took the fuse, and some resistors under the finals went south. I hope thats all it was. Anyway, I'll give it a look this evening. Now I have a project radio. As long as the 530S works I'm in no hurry.
73 Dave W0DLR

[Non-text portions of this message have been removed]

9606. Re: [TS-520_820_530_830] Re: TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-25 20:59:32 UTC
From: Ruben Echevarria
Topic: 9558 Message: 9606

Way to go Jack....Glad to hear it worked out ... 73 de Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Jack <kf4yio@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 25, 2006 3:02:01 PM
Subject: [TS-520_820_530_830] Re: TS-820S minor problem

Hi Guys and Gals. Well, the relay was sticking. After a good
cleaning and checking, all is well again.

Thanks to all.

PS: Is there a 40M or any Kenwood 520/820/530/ 830 net????

73 - Jack

--- In TS-520_820_530_ 830@yahoogroups. com, "Jack" <kf4yio@...> wrote:
>
> Hi everyone. By the way; this is a great group. I'm wondering about
> a small problem I'm having with my 820. Sometimes when operating SSB
> (no vox) the rig delays befor returning to the receive position. I
> have the VOX turned off and the delay is turned all the way down. It
> doesn't happen all the time but often enough to cause me to be a
> little concerned. Anyone else ever had this sympton?
>
> Jack - KF4YIO
>

[Non-text portions of this message have been removed]

9607. Still In Search OF MC50 Cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 02:13:53 UTC
From: Ruben Echevarria
Topic: 9607 Message: 9607

I'm still in need and in search of a coiled mic cable for an MC50 Kenwood Mic if anyone has one. Thanks Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...

[Non-text portions of this message have been removed]

9608. RE: [TS-520_820_530_830] TS830S No Drive on 30m -- Solution!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 02:31:00 UTC
From: John Harp
Topic: 7936 Message: 9608

nice work. I had the feeling that might be it.

Ron Hauser <eichmann@...> wrote: Success! It is always the too-easy stuff that one misses.

Summary: No drive on 30m, no power output. Carrier is heard on an adjacent receiver in transmit, and signals are heard when listening. Drive control peaks the received signal. Tracing with an RF probe from the driver tube over to the final board, there is a signal there but not the level that is present on other bands. The not-right level is the same all the way to the final board. Bandswitch checks out ok.

It turns out that the tuning slug for the drive coil on 30m was turned way way out (L26 on the RF board). Adjusting the drive coil according to the operator manual brought the drive up and I now have full 100w out. One wonders _why_ the coil was so far out of adjustment, perhaps the capacitor C35 has gone out of tolerance... Or something. The other coils are not out that far. I'll have to watch it for a bit, but I am putting it back on the air and I'll see if I have issues cropping back up.

Thanks to this group for the coaching!

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Sunday, September 17, 2006 10:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] TS830S No Drive on 30m

Continuation of my slow troubleshooting, I got to spend some more time on the workbench this weekend.

Walt asked if I had a carrier that I could hear on a nearby receiver when in transmit: Yes. I took an SWL radio and listened, when transmitting in Tune position I can hear the carrier on 30m (also on 20m and 40m).

Clif suggested no load, so look further downstream, possibly bandswitch. I put my RF probe on the connection point where the drive signal wire goes into the final board. When switching to transmit in tune position:

20m peaks up to ~25v then settles down to ~3v
40m peaks up to ~25v then settles down to ~3v
30m rises smoothly to 5v with no peak.

What I want to do now is to see if the drive signal is actually getting to the tube, which I think would verify that the bandswitch is the problem. However, I am being very very cautious poking at the bottom of the finals because of the high voltage. After careful scrutiny of the board drawing and schematic I think I am expecting to see the drive signal on pin 5 of the final socket. Can anyone verify before I poke a probe into a high voltage circuit?

Thanks!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Saturday, August 26, 2006 9:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Greetings Kenwood Gurus. About two months ago I was working along with Joe Sloss K7MKS, Bill Schurlock KG5CW, and Joan from Down Under VK5KYO. Bill helped get me set up with a VTVM, I eventually got an RF probe made, and finally I have done some testing.

The problem:

I have a TS830S that I got from the previous owner about a year ago. There is no drive at all on 30m, no matter the position of the drive control knob (also no RF out). All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal.

Based on Joan's problem with a missing band, I tested C74 and L36 on the RF board. I believe that both these components are ok -- L36 showed right at the 4 ohms level Joan was looking for, and C74 is not shorted and doesn't look burned or anything.

I then took Joe's advice and attempted to measure the RF voltage on the grid of the driver tube. I believe this is a promising path, but I must first verify that I measured on the _correct_ pin. So. I have the radio sitting right side up on the bench with the covers off, the RF board is exposed and the driver tube is right there in the middle. I'm looking down at the tube/socket from above -- actually I am also looking at the board layout diagram in the service manual, which is the same orientation of course. I'm a little fuzzy on the "proper" numbering order of the pins. But anyway in this orientation the gap with no pins is at 9 oclock. There is a pin at 8 oclock, one at 7 oclock, one at five oclock. After staring at the diagrams

and thinking about it for a while, I believe the pin at 7 oclock is the one that I want. So I put the rf probe on that pin and with the rig in tune, I switched to send and indeed I got RF.

Question #1. Am I on the right pin (or if not what am I measuring!?!)

Question #2. If I am on the right pin, I have an interesting result, because the RF voltage is not the same. At 14110 kHz I got 1.5 V. At 7110 kHz I got 1.4 V. But on 10110 kHz I got 5.2 V. Hm!!!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Wednesday, June 07, 2006 11:05 PM
To: 'joe sloss'
Cc: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830S No Drive on 30m

Hi Joe, understood. I had come to a similar conclusion this afternoon after our previous emails; a VTVM would be very handy right now. I'm going to proceed as recommended, I will build an RF probe to use with my DMM. I will also keep an eye out on Ebay and the other sites for a VTVM which is what I really need. Using whichever of those I get hold of first I'll start tracing as you recommended.

To restate the problem for future reference: I have a TS830S that I got from the previous owner about 8 months ago. There is no drive at all on 30m. All other bands produce drive (and I've had QSOs, seem to be working fine). It receives just fine, I've listened to WWV and various CW and digital QSOs on 30m. I have verified that the WARC bands have been enabled by snipping wire #1 on connector #6 according to the manual. I've tried lots of wiggling of the bandswitch, also poking carefully at the bandswitch contacts, also tested resistance on the bandswitch contacts which are outside the finals cage. No wiggling ever gives a twitch of drive, and all the contacts outside the finals cage show continuity. On receive the drive control does peak the signal. Therefore my current thinking is to look for trouble somewhere besides the bandswitch, my best thought being to check C74 and L36 on the RF board as noted by Joan VK5KYO.

I've changed the subject to more accurately reflect this issue, so that it will be easier to find in the future. I will have some time to work on the radio again tomorrow, then I'm out of town for vacation and for work for a few weeks. I'm archiving all these conversations so that I'll be able to come back to them.

I appreciate your coaching.

73
--Ron
KC0TLN

-----Original Message-----
From: joe sloss [mailto:k7mks@...]
Sent: Wednesday, June 07, 2006 8:51 PM
To: Ron Hauser
Subject: Re: [TS-520_820_530_830] TS830S low power

Ron: There are several Heath RF probes on ebay that could be adapted to use

with your DMM. Handiest thing in the world when you need one.

The fact that your DRIVE control peaks a received signal tells me that the
BS and associated circuits on 30m may be OK.

I was going to ask you to measure RF voltage at the grid of the driver tube.

Do this on 40 and 20 when you are in the TUNE position. Then check 30m.

If you have about the same RF voltage then the 30m circuits BEFORE the grid

are working correctly. If the 30m voltage is lower or non-existant then
your problem is before the grid of the driver tube.

Before I go too far you might refresh my memory as to the problem you are
having. I think I've deleted some of your earlier comments on what was
wrong and what does what.

Regards,

Joe---- Original Message -----
From: "Ron Hauser" <eichmann@...>
To: "'joe sloss'" <k7mks@...>
Sent: Wednesday, June 07, 2006 5:32 PM
Subject: RE: [TS-520_820_530_830] TS830S low power

> Joe, I do not have a VTVM but I have a digital multimeter... I don't have
> an
> RF probe but have known I would end up needing to build one sooner or
> later
> since I've heard that question on the list quite a few times. HI. I'm
> reading a little web page about building an RF probe on the internet N5ESE
> 's page... Hmmm. My DMM has 1 meg input impedance, I have in my junk box
> some IN34A diodes, some 47K and some 10K resistors, and some 0.047uF caps.
> I think I can get this together... Where are you going to send me with it
> then?
>
> :)
>
> -----Original Message-----
> From: joe sloss [mailto:k7mks@...]
> Sent: Wednesday, June 07, 2006 3:48 PM
> To: Ron Hauser
> Subject: Re: [TS-520_820_530_830] TS830S low power
>
> Do you have a VTVM with a very .low scale or a DVM? How about a RF probe?

>
> Joe
> ----- Original Message -----
> From: "Ron Hauser" <eichmann@...>
> To: "'joe sloss'" <k7mks@...>
> Sent: Wednesday, June 07, 2006 12:51 PM
> Subject: RE: [TS-520_820_530_830] TS830S low power
>
>
>> Hi Joe. I have done the poke-and-wiggle on the wafers outside the finals
>> cage. I also have put the switch on 30m (the problem band) and ohmed the
>> contacts on all the wafers outside the finals cage. They all show very
>> low
>> ohms, like 1... All these bandswitches have also had a deoxit treatment.
>> Thus I am leaning away from the bandswitch area. However, I happen to be
>> working at home today and so I just went over to the bench and did your
>> test
>> of peaking received signals -- the drive control definitely does peak the
>> crystal calibrator on 30m. (I'm new to these repairs, so where are you
>> heading with this?)
>>
>> Thanks!
>> 73
>> --Ron
>> KC0TLN
>>
>> -----Original Message-----
>> From: joe sloss [mailto:k7mks@...]
>> Sent: Wednesday, June 07, 2006 2:27 PM
>> To: eichmann@...
>> Subject: Re: [TS-520_820_530_830] TS830S low power
>>
>>
>> Ron:
>>
>> Does the drive control peak received signals (ie crystal calibrator) on
>> 30m?
>>
>> When checking for Drive on 30m take an insulated rod or alignment tool
>> and
>> VERY GENTLY push ever-so-slightly on each bandswitch wafer excdept the
>> one
>> in the final cage.
>>
>> Another idea might be to check for Drive by pulling or pushing the
>> bandswitch knob slightly or by rotating it CW or CCW a very tiny bit.
>>
>> If drive returns when doing any of the above you might suspect that one
>> of
>> the switch contacts is not making a connection. The 530 and 830 used a

>> copper trace and silver connector held together with a tin rivit. This
>> whole assembly can work is way loose after years of use or can develop
>> corrosion due to 3 different metals in contact with each other,.
>>
>> Regards,
>>
>> Joe k7mks .
>>
>

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9609. Re: [TS-520_820_530_830] Re: Diode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 02:35:00 UTC
From: John Harp
Topic: 9591 Message: 9609

Hey I like this idea. My SWR meter on my tuner is not bright enough. Must try that. Come to think I could do that on my UTC clock too. It'd be bright and probably would last too.

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:

The below link should help.

Hey Mike, that was me. Thanks very much. I am going with a bright white LED behind the meter. I will use two 1K resisitors in parallel. The resultant 500 ohms is a bit high (target is 430) but shouldn't pose a problem with the LED. My meter bulb burnt out so I put a Radio Shack 12V light in there but it is too dim. Not like the TS520 I used to have the meter on those is perfect. I have been looking at the meter in the AT230 to see if I could put an LED in there, but by shingin a light on the back of the meter I don't see how any light can penetrate to show out the front. The meters on my old FT107 line all had small bulbs mounted in the meter face itself below the coil. Not much room in the AT230 for that.

Max

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9610. Re: [TS-520_820_530_830] Diode resistors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 02:36:14 UTC
From: John Harp
Topic: 9591 Message: 9610

Thank You good idea.

w5rkl <w5rkl@...> wrote: Someone was requsting information about series resistors for powering
LED's. The below link should help.

http://ourworld.compuserve.com/homepages/Bill_Bowden/led.htm

73's

Mike
W5RKL

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9611. Looking for TS-50 mike cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 02:41:24 UTC
From: John Harp
Topic: 9611 Message: 9611

Well Reuben I'm getting an intermittent cale too.

Want to be your own boss? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

9612. Re: [TS-520_820_530_830] Re: [TS-520 smoked

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 08:53:02 UTC
From: n9wb
Topic: 9605 Message: 9612

Build a light bulb tester under Save Your Transformer in the files section of this group.

Vy 73, Walt N9WB
----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, September 25, 2006 2:13 PM
Subject: [TS-520_820_530_830] Re: [TS-520 smoked

I have a 520SE I bought a couple weeks ago. Good looking old radio, clean and free of crud on the chassis. Tuned and loaded it up last evening on 75 meters, the output was low, I switched it to CW position, repeaked the drive, dipped the plate, and saw the output gradually come up. Within a second or two it popped and went dark. There was a zzzttttt noise under the chassis. (How do you like that for a description) I haven't went any farther, suspect it took the fuse, and some resistors under the finals went south. I hope thats all it was. Anyway, I'll give it a look this evening. Now I have a project radio. As long as the 530S works I'm in no hurry.
73 Dave W0DLR

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.8/455 - Release Date: 9/22/06

[Non-text portions of this message have been removed]

9613. Re: [TS-520_820_530_830] Looking for TS-50 mike cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 09:02:54 UTC
From: n9wb
Topic: 9611 Message: 9613

Cords are easy to come by. The problem is finding that 5 pin connector that has 4 pins surrounding a 5th in the center.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: Ruben Echevarria ; TO POST FOR THE KENWOOD GROUP
Sent: Monday, September 25, 2006 9:41 PM
Subject: [TS-520_820_530_830] Looking for TS-50 mike cable.

Well Reuben I'm getting an intermittent cale too.

Want to be your own boss? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.8/455 - Release Date: 9/22/06

[Non-text portions of this message have been removed]

9614. Re: [TS-520_820_530_830] Re: TS-820S minor problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 09:20:58 UTC
From: n9wb
Topic: 9558 Message: 9614

We have a Yahoo Group called KenwoodQSO. Ellen has tried to establish a regular net but we are at the low part of the sunspot cycle and it is difficult to have success. However she hasn't given up yet.

We also use the group to announce that we are on and on what frequency. We have had some success with this and I believe as we get into winter conditions and get more members we will do better. As habits form, people will know when to check the reflector.

Vy 73, Walt N9WB

----- Original Message -----
From: Jack

PS: Is there a 40M or any Kenwood 520/820/530/830 net????

73 - Jack

9615. DC-DC converter DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 09:49:24 UTC
From: iz2gaq
Topic: 9615 Message: 9615

I'm looking for a DC-DC converter to install on my 830M.
Does anybody have one?
By the way, I have a DS-1A brand new in the original box, with cable.
Of course, I cannot use it as it goes with 820S and not with the 830,
but if I cannot find a DS-2 I could adapt it.

Suggestions?
Thanks
73
Dom IZ2GAQ

9616. TS-520/S/SE audio mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 13:28:02 UTC
From: Phil
Topic: 9616 Message: 9616

Has anyone tried the following mods - especially the audio mods:

http://www.radiomods.co.nz/kenwood/kenwoodts520.html

Phil VY2PR

9617. Re: CW Filter for 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 15:12:58 UTC
From: kc8sbv
Topic: 9601 Message: 9617

I looked at the Inrad site, and your radio takes the same YK-88C cw filter mine does for my TS-530. I watched 3 of them go on Ebay, prices ranged from $58 to $90. I missed bidding on the first, was overbid on the second, and by that time the 3rd was over my limit, too close to Inrads price. It seems that they are in demand, and I may have to order from Inrad.

Good luck!
Ed KC8SBV

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Does anyone have a well used CW filter for the 820S that they would
> part with at a reasonable (read cheap) cost
> thanks
> Barry
> VA7GEM
>

9618. Re: [TS-520_820_530_830] Re: CW Filter for 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 16:05:56 UTC
From: jsloss
Topic: 9601 Message: 9618

The TS-820/820S uses a YG-88C for the CW filter according to my Kenwood manual.

Joe k7mks

----- Original Message -----
From: kc8sbv
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 26, 2006 8:12 AM
Subject: [TS-520_820_530_830] Re: CW Filter for 820S

I looked at the Inrad site, and your radio takes the same YK-88C cw
filter mine does for my TS-530. I watched 3 of them go on Ebay, prices
ranged from $58 to $90. I missed bidding on the first, was overbid on
the second, and by that time the 3rd was over my limit, too close to
Inrads price. It seems that they are in demand, and I may have to order
from Inrad.

Good luck!
Ed KC8SBV

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Does anyone have a well used CW filter for the 820S that they would
> part with at a reasonable (read cheap) cost
> thanks
> Barry
> VA7GEM
>

[Non-text portions of this message have been removed]

9619. Re: [TS-520_820_530_830] Re: CW Filter for 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 17:04:07 UTC
From: Rick May
Topic: 9601 Message: 9619

Hi Guys,

The Kenwood cw filter for the 820(S) is the YG-88C as Joe said. The Inrad filter has exactly the same pin configuration as the YG series and will drop right in the 820(S) . Ed, for your 530S, the Inrad filters are much larger in size than the YK-88C(N) filters and you will have to wire in the Inrad 8.83 filter with RG-174. The 455khz filters are the same though. The Inrad filters are much better than the Kenwood YK series.

Rick KC0HH
l

kc8sbv <kc8sbv@...> wrote: I looked at the Inrad site, and your radio takes the same YK-88C cw
filter mine does for my TS-530. I watched 3 of them go on Ebay, prices
ranged from $58 to $90. I missed bidding on the first, was overbid on
the second, and by that time the 3rd was over my limit, too close to
Inrads price. It seems that they are in demand, and I may have to order
from Inrad.

Good luck!
Ed KC8SBV

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Does anyone have a well used CW filter for the 820S that they would
> part with at a reasonable (read cheap) cost
> thanks
> Barry
> VA7GEM
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9620. RE: [TS-520_820_530_830] Re: CW Filter for 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 17:30:16 UTC
From: Darwin, Keith
Topic: 9601 Message: 9620

6 Mos ago I had a very nice TenTec Omni V with a bunch of filters. I had the TT 250 and 500 Hz filters as well as the Inrad 400 Hz filter. I was able to do a lot of A/B comparisons between the filters as I decided which ones to keep and which to sell.

The Inrad filter had much steeper skirts and a tighter passband, but it did NOT have as much ultimate rejection. I'd hear strong carriers (40 M BCI) for many KC as I tuned past them. The TT filters weren't as sharp but their stop band was much more convincing. I kept the TT filters and sold the Inrad filters.

Then I got a K2 and sold the Omni V radio.

Now, to be sure, I've never done that same test using Inrad and Kenwood filters so my results may be rather meaningless. Still, my experience taught me that "Inrad" does not automatically mean the filter is superior in all aspects.

I also had a stock 830s at the time. The Omni V with stock TT SSB filters was much sharper and more DX-sounding than the 830s. I put wide Inrad SSB filters in the Omni (Veeery nice!) and the Omni rivaled the 830s for SSB sound quality. Omni still had more IF noise though.

- Keith KD1E -

-----Original Message-----
The Inrad filters are much better than the Kenwood YK series.

9621. Re: [TS-520_820_530_830] Looking for TS-50 mike cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 17:40:52 UTC
From: John Harp
Topic: 9611 Message: 9621

Walt, such is the case I figured, I just haven't gone looking yet. If you hear of one please let Reuben and I know. I'm gonna try to fix mine soon. I just got alot going on right now as we prepare for winter. Hopefully I go back to my job soon.

n9wb <n9wb@...> wrote: Cords are easy to come by. The problem is finding that 5 pin connector that has 4 pins surrounding a 5th in the center.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: Ruben Echevarria ; TO POST FOR THE KENWOOD GROUP
Sent: Monday, September 25, 2006 9:41 PM
Subject: [TS-520_820_530_830] Looking for TS-50 mike cable.

Well Reuben I'm getting an intermittent cale too.

Want to be your own boss? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.405 / Virus Database: 268.12.8/455 - Release Date: 9/22/06

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9622. Re: CW Filter for 820S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-26 21:41:51 UTC
From: kc8sbv
Topic: 9601 Message: 9622

My mistake about the YG vs YK. The Inrad site shows the 97 and 98 for both the 820 and 530, rash assumption on my part. Thanks for the warning about the Inrad being larger. I am sure that I can deal with it, they should supply adequate instructions.

Ed KC8SBV

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Guys,
>
> The Kenwood cw filter for the 820(S) is the YG-88C as Joe said. The Inrad filter has exactly the same pin configuration as the YG series and will drop right in the 820(S) . Ed, for your 530S, the Inrad filters are much larger in size than the YK-88C(N) filters and you will have to wire in the Inrad 8.83 filter with RG-174. The 455khz filters are the same though. The Inrad filters are much better than the Kenwood YK series.
>
>
> Rick KC0HH
> l
>
> kc8sbv <kc8sbv@...> wrote: I looked at the Inrad site, and your radio takes the same YK-88C cw
> filter mine does for my TS-530. I watched 3 of them go on Ebay, prices
> ranged from $58 to $90. I missed bidding on the first, was overbid on
> the second, and by that time the 3rd was over my limit, too close to
> Inrads price. It seems that they are in demand, and I may have to order
> from Inrad.
>
> Good luck!
> Ed KC8SBV
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > Does anyone have a well used CW filter for the 820S that they would
> > part with at a reasonable (read cheap) cost
> > thanks
> > Barry
> > VA7GEM
> >
>

>
>
>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>

9623. Filter mod for the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 13:09:38 UTC
From: max_ve3tmt
Topic: 9623 Message: 9623

I performed the filter mod on my 830 last night which allows me to use the 500 hz CW filter in any mode. My main reason for doing such was for PSK and RTTY work. It is worth doing. It reduces the QRM to next to nothing and with the IF SHIFT and VBT features, I swear it performs better than my 850 did. I rewired the VOX switch to activate the filter but I think tonight I will change it over to the NB switch and just hardwire the NB on. I use it most of the time at my QTH anyway.

Max

9624. Re: [TS-520_820_530_830] TS-520/S/SE audio mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 15:43:32 UTC
From: n9wb
Topic: 9616 Message: 9624

I am in the process of writing a description of the audio part of the Generator Board in the TS-520. It will explain what some of these capacitors do in some detail. It will take me a couple of days to complete this.

Vy 73, Walt N9WB

----- Original Message -----
From: Phil
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, September 26, 2006 8:28 AM
Subject: [TS-520_820_530_830] TS-520/S/SE audio mods

Has anyone tried the following mods - especially the audio mods:

http://www.radiomods.co.nz/kenwood/kenwoodts520.html

Phil VY2PR

[Non-text portions of this message have been removed]

9625. Re: TS-520/S/SE audio mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 14:53:19 UTC
From: max_ve3tmt
Topic: 9616 Message: 9625

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I am in the process of writing a description of the audio part of the Generator Board in the TS-520. It will explain what some of these capacitors do in some detail. It will take me a couple of days to complete this.
>
> Vy 73, Walt N9WB

I look forward to reading it Walt. I was going to say the same thing for the 830 would be helpful, but I decided to feed the audio directly into the balanced modulator bypassing all those restrictive mic stages.

73,
Max VE3TMT

9626. Re: [TS-520_820_530_830] Filter mod for the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 15:44:11 UTC
From: Rick May
Topic: 9623 Message: 9626

Hey Max,

I have not looked at the switch itself but could you use the DH switch? I for one don't use that too much...as in never.

Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: I performed the filter mod on my 830 last night which allows me to use
the 500 hz CW filter in any mode. My main reason for doing such was
for PSK and RTTY work. It is worth doing. It reduces the QRM to next
to nothing and with the IF SHIFT and VBT features, I swear it performs
better than my 850 did. I rewired the VOX switch to activate the
filter but I think tonight I will change it over to the NB switch and
just hardwire the NB on. I use it most of the time at my QTH anyway.

Max

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9627. Re: DC-DC converter DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 15:36:13 UTC
From: Clif
Topic: 9615 Message: 9627

--- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@...> wrote:
>
> I'm looking for a DC-DC converter to install on my 830M.
> Does anybody have one?
> By the way, I have a DS-1A brand new in the original box, with cable.
> Of course, I cannot use it as it goes with 820S and not with the 830,
> but if I cannot find a DS-2 I could adapt it.
>
> Suggestions?
> Thanks
> 73
> Dom IZ2GAQ
>

Unless the Italian 830's are different the power transformer doesn't
have the taps for the DS-2. The 830's are AC only.

Clif

9628. Re: DC-DC converter DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 16:48:29 UTC
From: iz2gaq
Topic: 9615 Message: 9628

Well, good point!!
Do you mean that only the "W type" has the taps for the DS-2?
Mine is a regular 830M, but I was absolutely convinced it has the
possibility to add the DC-AC converter.
On the other hand, "W type" means Europe, therefore it should be ready.
It's matter to verify if a "M type" is also a "W type".
I've to check it internally on the transformer.

Thanks again
73
Dom IZ2GAQ

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> Unless the Italian 830's are different the power transformer doesn't
> have the taps for the DS-2. The 830's are AC only.
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> >
> > I'm looking for a DC-DC converter to install on my 830M.
> > Does anybody have one?
> > By the way, I have a DS-1A brand new in the original box, with cable.
> > Of course, I cannot use it as it goes with 820S and not with the 830,
> > but if I cannot find a DS-2 I could adapt it.
> >
> > Suggestions?
> > Thanks
> > 73
> > Dom IZ2GAQ
> >

9629. Re: Filter mod for the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 17:18:08 UTC
From: max_ve3tmt
Topic: 9623 Message: 9629

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hey Max,
>
> I have not looked at the switch itself but could you use the DH
switch? I for one don't use that too much...as in never.
>
> Rick KC0HH

I don't see why it wouldn't work Rick. All the DH switch does is
ground pin 1 on connector # 1 on the counter board. It is an SPDT
switch, the third terminal is unused. Mod is very simple..

Turn the 830 over and locate on the mode switch, the white wire with
the blue stripe. Unsolder this wire and relocate it to the common
terminal of whatever switch you chose to use. One outside leg of the
switch goes back to the mode switch, where you removed the white wire
from, and the other outside leg of the switch goes to the terminal
where the green wire selection for your CW filter goes, in my case peg
2.

Thats all there is to it. I ran some experiments on PSK last night on
40m and the difference in readability was incredible. Now you have me
wondering which switch to use!!

Max

9630. Audio Hum through monitor when operating PTT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 20:47:06 UTC
From: nigel4416
Topic: 9630 Message: 9630

Hi all
I have been using my TS-820 for several months with no problems. I have always operated the rig with the monitor circuit switched in with only my quiet clean voice comming out of the speaker when speaking into the fist mic. Yesterday I tuned the radio up and pressed the PTT on the mic to call CQ and experianced an audio hum comming out of the speaker along with my voice at the correct level. This hum gets worse when the coiled mic lead is grabbed and dissapears when a finger and thumb is placed around the mic plug on the front of the rig. I think it has something to do with earthing but don't know what. Would it have anything to do with a fault with my RF earth? (my RF earth is buried underground but has recently had tractors driving over this ground - so I am fearing a damaged earth) . I took the fist mic and the mic plug apart but found no loose or broken wires. Can anyone help and give me some ideas as to why this problem has just showed itself and what I can do about it. As far as I am aware I have not changed my setup in any way to cause this fault, it just started happening. I fear that if I am hearing this hum on the monitor circuit then perhaps this hum is being transmitted as well. The hum is like the sound you get when touching the input on an audio amp.
Thanks
Nigel M1EQA

9631. Re: Filter mod for the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-27 22:27:53 UTC
From: max_ve3tmt
Topic: 9623 Message: 9631

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hey Max,
>
> I have not looked at the switch itself but could you use the DH
switch? I for one don't use that too much...as in never.

Rick...UPDATE!!! Neither the DH or NB switch will work. Both only
have 2 terminals on them. The third terminal has been cut off and they
are very hard to get at. I have drilled a 1/4" hole in the rear panel,
actually enlarged a hole that was already there and mounted a sub-mini
SPDT in there. Works just fine. My two spare holes already hold RCA
jacks for the balanced modulator feed and fixed level AF output.

Max

9632. Re: [TS-520_820_530_830] Audio Hum through monitor when operating PTT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 02:07:07 UTC
From: Rich Jones
Topic: 9630 Message: 9632

I recentely have the same issue on a National NCX 3. However no says it is interfering with my transmission? I am looking into beter grounding for the equipment in the shack. I am concerned, if I hear it I don't like it.

nigel4416 <nj.trewin@...> wrote: Hi all
I have been using my TS-820 for several months with no problems. I have always operated the rig with the monitor circuit switched in with only my quiet clean voice comming out of the speaker when speaking into the fist mic. Yesterday I tuned the radio up and pressed the PTT on the mic to call CQ and experianced an audio hum comming out of the speaker along with my voice at the correct level. This hum gets worse when the coiled mic lead is grabbed and dissapears when a finger and thumb is placed around the mic plug on the front of the rig. I think it has something to do with earthing but don't know what. Would it have anything to do with a fault with my RF earth? (my RF earth is buried underground but has recently had tractors driving over this ground - so I am fearing a damaged earth) . I took the fist mic and the mic plug apart but found no loose or broken wires. Can anyone help and give me some ideas as to why this problem has just showed itself and what I can do about it. As far as I am aware I have not changed my setup in any way to cause this fault, it just started happening. I fear that if I am hearing this hum on the monitor circuit then perhaps this hum is being transmitted as well. The hum is like the sound you get when touching the input on an audio amp.
Thanks
Nigel M1EQA

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9633. Re: DC-DC converter DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 04:05:47 UTC
From: Clif
Topic: 9615 Message: 9633

```
--- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@...> wrote:
>
> Well, good point!!
> Do you mean that only the "W type" has the taps for the DS-2?
> Mine is a regular 830M, but I was absolutely convinced it has the
> possibility to add the DC-AC converter.
> On the other hand, "W type" means Europe, therefore it should be ready.
> It's matter to verify if a "M type" is also a "W type".
> I've to check it internally on the transformer.
>
> Thanks again
> 73
> Dom IZ2GAQ
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@> wrote:
> >
> > Unless the Italian 830's are different the power transformer doesn't
> > have the taps for the DS-2. The 830's are AC only.
> >
> > Clif
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> > >
> > > I'm looking for a DC-DC converter to install on my 830M.
> > > Does anybody have one?
> > > By the way, I have a DS-1A brand new in the original box, with
cable.
> > > Of course, I cannot use it as it goes with 820S and not with the
830,
> > > but if I cannot find a DS-2 I could adapt it.
> > >
> > > Suggestions?
> > > Thanks
> > > 73
> > > Dom IZ2GAQ
> > >
>

I meant as far as I know NONE of the 830's have a power transformer
that is compatible with the DC Converter.

Clif
```

9634. Re: [TS-520_820_530_830] Audio Hum through monitor when operating PTT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 04:06:56 UTC
From: John Harp
Topic: 9630 Message: 9634

What is your earth? and what is the antenna? I was wondering this for RF on the mic. second check the rig over for soiled connections or bad solder joints.

nigel4416 <nj.trewin@...> wrote: Hi all
I have been using my TS-820 for several months with no problems. I have always operated the rig with the monitor circuit switched in with only my quiet clean voice comming out of the speaker when speaking into the fist mic. Yesterday I tuned the radio up and pressed the PTT on the mic to call CQ and experianced an audio hum comming out of the speaker along with my voice at the correct level. This hum gets worse when the coiled mic lead is grabbed and dissapears when a finger and thumb is placed around the mic plug on the front of the rig. I think it has something to do with earthing but don't know what. Would it have anything to do with a fault with my RF earth? (my RF earth is buried underground but has recently had tractors driving over this ground - so I am fearing a damaged earth) . I took the fist mic and the mic plug apart but found no loose or broken wires. Can anyone help and give me some ideas as to why this problem has just showed itself and what I can do about it. As far as I am aware I have not changed my setup in any way to cause this fault, it just started happening. I fear that if I am hearing this hum on the monitor circuit then perhaps this hum is being transmitted as well. The hum is like the sound you get when touching the input on an audio amp.
Thanks
Nigel M1EQA

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9635. Re: Audio Hum through monitor when operating PTT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 05:14:30 UTC
From: Clif
Topic: 9630 Message: 9635

--- In TS-520_820_530_830@yahoogroups.com, "nigel4416" <nj.trewin@...>
wrote:
>
> Hi all
> I have been using my TS-820 for several months with no problems. I
> have always operated the rig with the monitor circuit switched in with
> only my quiet clean voice comming out of the speaker when speaking
> into the fist mic. Yesterday I tuned the radio up and pressed the PTT
> on the mic to call CQ and experianced an audio hum comming out of the
> speaker along with my voice at the correct level. This hum gets worse
> when the coiled mic lead is grabbed and dissapears when a finger and
> thumb is placed around the mic plug on the front of the rig. I think
> it has something to do with earthing but don't know what. Would it
> have anything to do with a fault with my RF earth? (my RF earth is
> buried underground but has recently had tractors driving over this
> ground - so I am fearing a damaged earth) . I took the fist mic and
> the mic plug apart but found no loose or broken wires. Can anyone help
> and give me some ideas as to why this problem has just showed itself
> and what I can do about it. As far as I am aware I have not changed my
> setup in any way to cause this fault, it just started happening. I
> fear that if I am hearing this hum on the monitor circuit then perhaps
> this hum is being transmitted as well. The hum is like the sound you
> get when touching the input on an audio amp.
> Thanks
> Nigel M1EQA
>

1. Verify it's actually there and not in the monitor circuit by an on
the air contact. Make contact and then pinch the wire where the hum
goes away, What does the other person hear??? Same, no change, etc...

2. If it's actually there and goes away with the "pinching" then you
may have a broken ground wire in the mike cable. Ohm out the mike
cable and wiggle it around while checking. Pin 4 is the audio ground.

3. If the hum is there then unplug the mike and key it with the PTT.
Is the hum still there? If not, mike cable. If so then time to dig deeper.

Clif

9636. [TS-520_820_530_830] Audio Hum through monitor when operating PTT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 07:10:00 UTC
From: Richard Harris
Topic: 9630 Message: 9636

Nigel,

It may well be caused by earthing, but perhaps mains earth leakage, rather than RF pick-up. From the Service Maual schematics, the 820 does not have a connection to mains earth through the mains cord. When you touch the mic connector do you get any sign of any leakage, for example any tingling in your finger or does the smooth surface of the connetor feel "rough" (I can't think of a better decription but I have observed that small leakage currents can make a smooth conductive surface feel strange)? Does the sound that you get from the speaker sound like 50Hz of 100Hz? The former would be indicative of leakage, the latter would indicate a smoothing problem in the power supply. Have you had any reports of mains hum on your SSB transmissions?

From what you write, you are using an external earth. Can you tell us some more about how this is done?

Finally, as far as "earthing" the rig is concerned, read the warnings in the RSGB Handbook and recent correspondance in Rad Com - external earthing can be hazardous if your house is wired to modern standards and a Neutral fault occurs. I have to admit to using mains earth as my RF earth to avoid this particular hazard - no TVI complaints as yet!

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of max_ve3tmt
Sent: 27 September 2006 23:28
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Filter mod for the TS830

Hi all
I have been using my TS-820 for several months with no problems. I have always operated the rig with the monitor circuit switched in with only my quiet clean voice comming out of the speaker when speaking into the fist mic. Yesterday I tuned the radio up and pressed the PTT on the mic to call CQ and experianced an audio hum comming out of the speaker along with my voice at the correct level. This hum gets worse when the coiled mic lead is grabbed and dissapears when a finger and thumb is placed around the mic plug on the front of the rig. I think it has something to do with earthing but don't know what. Would it have anything to do with a fault with my RF earth? (my RF earth is buried underground but has recently had tractors driving over this ground - so I am fearing a damaged earth) . I took the fist mic and the mic plug apart but found no loose or broken wires. Can anyone help and give me some ideas as to why this problem has just showed itself and what I can do about it. As far as I am aware I have not changed my setup in any way to cause this fault, it just started happening. I

fear that if I am hearing this hum on the monitor circuit then perhaps this hum is being transmitted as well. The hum is like the sound you get when touching the input on an audio amp.
Thanks
Nigel M1EQA

[Non-text portions of this message have been removed]

9637. Re: DC-DC converter DS-2 for TS-830 M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 09:12:18 UTC
From: n9wb
Topic: 9637 Message: 9637

As inexpensive as inverters are today, consider the possibility of just
using an external inverter.

Vy 73, Walt N9WB

----- Original Message -----
From: iz2gaq
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 27, 2006 11:48 AM
Subject: [TS-520_820_530_830] Re: DC-DC converter DS-2

>
> --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> >
> > I'm looking for a DC-DC converter to install on my 830M.
> > Does anybody have one?
> > By the way, I have a DS-1A brand new in the original box, with cable.
> > Of course, I cannot use it as it goes with 820S and not with the 830,
> > but if I cannot find a DS-2 I could adapt it.
> >
> > Suggestions?
> > Thanks
> > 73
> > Dom IZ2GAQ
> >

9638. Re: [TS-520_820_530_830] Re: Filter mod for the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 09:23:50 UTC
From: n9wb
Topic: 9623 Message: 9638

You could use the DH switch to operate a relay that has enough contacts. Walt N9WB
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 27, 2006 5:27 PM
Subject: [TS-520_820_530_830] Re: Filter mod for the TS830

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hey Max,
>
> I have not looked at the switch itself but could you use the DH
switch? I for one don't use that too much...as in never.

Rick...UPDATE!!! Neither the DH or NB switch will work. Both only
have 2 terminals on them. The third terminal has been cut off and they
are very hard to get at. I have drilled a 1/4" hole in the rear panel,
actually enlarged a hole that was already there and mounted a sub-mini
SPDT in there. Works just fine. My two spare holes already hold RCA
jacks for the balanced modulator feed and fixed level AF output.

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.9/457 - Release Date: 9/26/06

[Non-text portions of this message have been removed]

9639. Re: [TS-520_820_530_830] Audio Hum through monitor when operating PTT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 10:02:07 UTC
From: n9wb
Topic: 9630 Message: 9639

Nigel:

I would very strongly bet that the mike has developed a problem in the shield. I would also bet that it is really transmitting the hum.

What mike are you using? If it is an MC-60 the plot thickens.

If it is an MC-50 or 60, connect the mike direct eliminating the stand.

Assuming that it is not one of those, unplug the mike and operate the send switch on the rig. Do you hear the hum?
I would guess not.

I am also assuming that nothing is connected to the phone patch jack on the back.

Now, if the above is correct,

On the TS-820 pin 1 on the mike plug is the live audio. Pin 4 is the audio shield ground.
Pin 2 is the live PTT line and Pin 3 is the PTT ground. These grounds are different from each other and different from the rig chassis ground even though they will appear to be the same with an ohm meter.

Sometimes the two grounds are connected together in the mike and that is OK. However, if the shield ground opens up somewhere, the mike will still work but can get a hum.

In the mike plug at the rig end, temporarly disconnect the wires from pins 2 and 3. Key the mike and key the radio by operating the send switch. Do you hear the microphone audio ? If not, the shield line is open. If you do, do you still get the hum?

Another test would be to use another mike plug and connect a couple feet of coax to it. Center to pin 1 and shield to pin 4. Place a 10 K resistor across the other end of the coax. Key the rig with the send switch. Do you get the hum ?

Of course, if you have another mike, you could wire it for your rig and try it.

If any of the wires in the mike plug touch the mike plug shell, it can cause problems even it it is the shield wire that is touching.

BTW, shields can and often do break inside the cord. One common place it at the strain relief on the plug. If there is a plug at both ends, it can happen at either end. If the cord is fast to the mike, it can break where it

comes out of the mike.

You can disconnect the shield from the plug, remove the plug from the radio and check the shield for continuity with an ohm meter. Flex the cord around as you do this.

Try these things and let us know what you observed.

Vy 73, Walt N9WB

----- Original Message -----
From: nigel4416
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 27, 2006 3:47 PM
Subject: [TS-520_820_530_830] Audio Hum through monitor when operating PTT

Hi all
I have been using my TS-820 for several months with no problems. I have always operated the rig with the monitor circuit switched in with only my quiet clean voice comming out of the speaker when speaking into the fist mic. Yesterday I tuned the radio up and pressed the PTT on the mic to call CQ and experianced an audio hum comming out of the speaker along with my voice at the correct level. This hum gets worse when the coiled mic lead is grabbed and dissapears when a finger and thumb is placed around the mic plug on the front of the rig. I think it has something to do with earthing but don't know what. Would it have anything to do with a fault with my RF earth? (my RF earth is buried underground but has recently had tractors driving over this ground - so I am fearing a damaged earth) . I took the fist mic and the mic plug apart but found no loose or broken wires. Can anyone help and give me some ideas as to why this problem has just showed itself and what I can do about it. As far as I am aware I have not changed my setup in any way to cause this fault, it just started happening. I fear that if I am hearing this hum on the monitor circuit then perhaps this hum is being transmitted as well. The hum is like the sound you get when touching the input on an audio amp.
Thanks
Nigel M1EQA

9640. Re: Filter mod for the TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 11:04:19 UTC
From: max_ve3tmt
Topic: 9623 Message: 9640

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> You could use the DH switch to operate a relay that has enough contacts. Walt N9WB

Thought about that Walt, but I hear enough relays with this thing. The switch seems to be working pretty good. After our chat last night I readjusted the trimmers to bring the low end down a bit. We will have to do an on the air comparison.

Max

9641. KA2HHB TS830S Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 13:21:26 UTC
From: Ruben Echevarria
Topic: 9641 Message: 9641

Hello friends.... After pulling my RF board and replacing L36, C71, and C74 I still have no ALC.
I'm getting RF output of about 80 Watts although I don't know how reliable my meter is. I'm using
the meter and dummy load built into my MFJ989C tuner. The only positive outcome was getting my
receive to come back up to par as compared to my other working TS830S. Thats was the plug on the
IF board that was loose. Both boards have been resoldered. I've also replaced the drivers and finals
several times with the same results. Relay has been cleaned as well. I guess that's about as far as I can go
with this rig. I'm going to have to ship it out. IP is good and fully adjustable as well. But when I switch
over to ALC I get no swing at all from the meter. I switch the meter to RF and speak into the mic and
get a light swing on the meter, but not very pronounced. Tune up in CW mode and get 3/4 scale ouput on
the meter. By the way I noticed a difference between the lighting on the meters between the so called
'Gold' and 'Silver' models. The 'Gold' has a single bulb illuminating the meters where the 'Silver' has dual
bulbs illuminating the meter. Just and observation. Many thanks and any comments would be appreciated.
Thanks...Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

9642. Re: TS-520/S/SE audio mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 13:46:17 UTC
From: Phil
Topic: 9616 Message: 9642

Sounds great Walt - thanks for this!

I used to be of the opinion that SSB HAD to sound dreadful. Then, after getting my license and hearing some hams on SSB on 20M [my hangout - I only have a 20M dipole for space reasons] with really great sound, I got sort of bitten by the idea of high quality SSB. Needless to say, with high quality sounding amateur radio, it becomes more appealing in today's internet world, as HQ Amateur Radio goes beyond bare voice communication. When it sounds like you are chatting in the same room, Amateur Radio is very appealing.

I'm not sure whether my Kenwood TS-520SE will become my HQ SSB rig, or my Drake TR-4 [when I get it up and running]. Or perhaps both?

Phil VY2PR

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I am in the process of writing a description of the audio part of the Generator Board in the TS-520. It will explain what some of these capacitors do in some detail. It will take me a couple of days to complete this.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Phil
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, September 26, 2006 8:28 AM
> Subject: [TS-520_820_530_830] TS-520/S/SE audio mods
>
>
> Has anyone tried the following mods - especially the audio mods:
>
> http://www.radiomods.co.nz/kenwood/kenwoodts520.html
>
> Phil VY2PR
>
>
>
> [Non-text portions of this message have been removed]
>

9643. 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 14:26:37 UTC
From: Jody Mills
Topic: 9643 Message: 9643

I currently have a non-working 520s that I've been meaning to send in for professional restoration. I now have an opportunity to purchase a working 830s for a few hundred bucks. I would like to create a Kenwood-only "vintage" station with any accessory equipment that was manufactured to go with a specific transceiver. My quandary is this: Which way should I go--the 830 series or the 520 series? Do both transceivers have accessory lines (antenna tuners, station monitors, etc.)? Is one series easier to find accessories for than another?

I only have enough funds to go with one station setup, so I want to make the smartest choice here.

Thanks!

9644. Re: [TS-520_820_530_830] Re: DC-DC converter DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 14:42:00 UTC
From: Rick May
Topic: 9615 Message: 9644

Hello All,

The European and Asian 830S' have a 12 pin cinch jones type connector on the rear of the radio for power and with a DS-2 installed, they will run off 13.8VDC. In fact, they look a lot like an 820 from the rear. Internally, they are identical with the exception of the power transformer. I have some photos of my European model in the photos section.

Dom, I doubt there are very many DS-2's here in the States. I do see them from time to time on E-Bay though.

73' Rick KC0HH
Lamar, Colorado

> > --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> > >
> > > I'm looking for a DC-DC converter to install on my 830M.
> > > Does anybody have one?
> > > By the way, I have a DS-1A brand new in the original box, with
cable.
> > > Of course, I cannot use it as it goes with 820S and not with the
830,
> > > but if I cannot find a DS-2 I could adapt it.
> > >
> > > Suggestions?
> > > Thanks
> > > 73
> > > Dom IZ2GAQ
> > >
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9645. Noisy 830s VFO Knob - recommendations?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 14:52:33 UTC
From: Darwin, Keith
Topic: 9645 Message: 9645

My 830s is a nice rig but ... the VFO knob makes noise. Apparently the lead balls epoxies inside the knob for weight are loose and make a bit of a noise as they shift around while turning the VOW. Can I fix this easily? Should I just get a different knob? Should I hold out for one of the fancy weighted knobs that are so hard to find?

Anyone have a knob they want to part with?

- Keith KIDDE -

[Non-text portions of this message have been removed]

9646. Re: [TS-520_820_530_830] Noisy 830s VFO Knob - recommendations?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 15:27:02 UTC
From: Rick May
Topic: 9645 Message: 9646

Hi Keith,
I have used the 'syringe' style epoxy dispensers that mix the resin and hardener as you depress the plunger. Works well in tight spots like the inside/rear of your VFO knob. I used the weighted, rubber ringed VFO knobs off of a 930S for both my 830S and VFO-230. They work fine and look good. There are lots of 930S' and 940S' being parted out on qth.com and E-Bay..Paid $25.00 for these. Much less expensive and look better than the purple hued QB-1.

Rick KC0HH

"Darwin, Keith" <keith.darwin@...> wrote: My 830s is a nice rig but ... the VFO knob makes noise. Apparently the
lead balls epoxies inside the knob for weight are loose and make a bit
of a noise as they shift around while turning the VOW. Can I fix this
easily? Should I just get a different knob? Should I hold out for one
of the fancy weighted knobs that are so hard to find?

Anyone have a knob they want to part with?

- Keith KIDDE -

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9647. RE: [TS-520_820_530_830] 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 15:34:23 UTC
From: Sean.....He's the cat that won't cop out
Topic: 9643 Message: 9647

This is largely subjective. Both lines have a full line of matching goodies. The 830 will do more and can be easily modded to do WARC bands. The 520s line is mighty cool and will cost you half as much as the 830 line BUT the 520s line only does old school bands and is not as feature rich as the 830s line. Both are fairly easy to find accessories, though it seems a little tough to find a good digital display for the 520.

If money is not too much of an issue go 830. That said a full 520s shack would suit me just fine.

Funny that tranceivers are now being considered vintage. I remember operating my dad's DX-100 and 75A4 and wishing we could get a new 820s.

Best regards,

Sean
N9FQ

>From: "Jody Mills" <jody.mills@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] 520 or 830 series?
>Date: Thu, 28 Sep 2006 14:26:37 -0000
>
>I currently have a non-working 520s that I've been meaning to send in
>for professional restoration. I now have an opportunity to purchase a
>working 830s for a few hundred bucks. I would like to create a
>Kenwood-only "vintage" station with any accessory equipment that was
>manufactured to go with a specific transceiver. My quandary is this:
>Which way should I go--the 830 series or the 520 series? Do both
>transceivers have accessory lines (antenna tuners, station monitors,
>etc.)? Is one series easier to find accessories for than another?
>
>I only have enough funds to go with one station setup, so I want to
>make the smartest choice here.
>
>Thanks!
>
>
>

9648. Re: KA2HHB TS830S Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 15:39:00 UTC
From: max_ve3tmt
Topic: 9641 Message: 9648

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:

By the way I noticed a difference between the lighting on the meters between the so called 'Gold' and 'Silver' models. The 'Gold' has a single bulb illuminating the meters where the 'Silver' has dual bulbs illuminating the meter.

I have tried a few different LED's behind the meter but all seem to cast abright circle in the centrer. Even with the plastic covering over it. I was hoping to brighten it up a bit, but I think I will stick to the 12V bulb. It has a nice yellowish hue to it.

Max

9649. RE: [TS-520_820_530_830] 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 15:29:28 UTC
From: Ken Gunton
Topic: 9643 Message: 9649

I can only speak to my own station, which is a TS-830S.
I have with it:

SM-220 Station Monitor Scope
VFO-230 Digital External VFO
SP-230 Speaker

I'm currently looking for an AT-230 Antenna Tuner

Once I get the AT-230, I'll be finished. The setup
all matches, except for the SM, which is a little
taller and the others. All color-coordinated, etc.,
and the XYL seems to appreciate that it looks
so good.

My previous rig, which I still have, is a
Heathkit SB-102 that I built myself in 1969, and
it has the matching station console and
speaker.

Just my thoughts. YTMV

73s
Ken W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jody Mills
Sent: Thursday, September 28, 2006 10:27 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] 520 or 830 series?

I currently have a non-working 520s that I've been meaning to send in
for professional restoration. I now have an opportunity to purchase a
working 830s for a few hundred bucks. I would like to create a
Kenwood-only "vintage" station with any accessory equipment that was
manufactured to go with a specific transceiver. My quandary is this:
Which way should I go--the 830 series or the 520 series? Do both
transceivers have accessory lines (antenna tuners, station monitors,
etc.)? Is one series easier to find accessories for than another?

I only have enough funds to go with one station setup, so I want to
make the smartest choice here.

Thanks!

Yahoo! Groups Links

9650. VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 15:49:47 UTC
From: Darwin, Keith
Topic: 9650 Message: 9650

I've assumed the VF0 230 would degrade RX performance in the 830s since it is a synthesized VFO and would create problems with synthesizer noise that the regular VFO doesn't create. If I'm right, won't the VFO 240 be a better choice for top-notch receiver performance?

- Keith KD1E -

[Non-text portions of this message have been removed]

9651. Re: KA2HHB TS830S Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 16:13:14 UTC
From: wb7_ssn
Topic: 9641 Message: 9651

Hello,

One thing to try with the LED's is to sand a flat spot in them. You can diffuse the light over a bigger area. You can customize how you want (direction and width) the light diffused. Take a look at the link below, the led info is towards the end.

http://www.collinsra.com/cra_album/0410_12/cra_0410_12.html

I have used LED's from everything from SX-25's to R-390A's.

Best,
DW Holtman
WB7SSN

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@> wrote:
>
> By the way I noticed a difference between the lighting on the meters between the so called 'Gold' and 'Silver' models. The 'Gold' has a single bulb illuminating the meters where the 'Silver' has dual bulbs illuminating the meter.
>
> I have tried a few different LED's behind the meter but all seem to cast abright circle in the centrer. Even with the plastic covering over it. I was hoping to brighten it up a bit, but I think I will stick to the 12V bulb. It has a nice yellowish hue to it.
>
> Max
>

9652. Re: DC-DC converter DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 17:49:10 UTC
From: iz2gaq
Topic: 9615 Message: 9652

Thank you Rick!
I'll keep looking to e-bay, too. I'm not certainly in the hurry ...

73 Dom IZ2GAQ

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hello All,
>
> The European and Asian 830S' have a 12 pin cinch jones type
connector on the rear of the radio for power and with a DS-2
installed, they will run off 13.8VDC. In fact, they look a lot like an
820 from the rear. Internally, they are identical with the exception
of the power transformer. I have some photos of my European model in
the photos section.
>
> Dom, I doubt there are very many DS-2's here in the States. I do
see them from time to time on E-Bay though.
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> > > --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> > > >
> > > > I'm looking for a DC-DC converter to install on my 830M.
> > > > Does anybody have one?
> > > > By the way, I have a DS-1A brand new in the original box, with
> cable.
> > > > Of course, I cannot use it as it goes with 820S and not with the
> 830,
> > > > but if I cannot find a DS-2 I could adapt it.
> > > >
> > > > Suggestions?
> > > > Thanks
> > > > 73
> > > > Dom IZ2GAQ
> > > >
> > >
>
>
>
>
>
>

>
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>

9653. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 17:55:39 UTC
From: Robert
Topic: 9643 Message: 9653

By nothing more than chance, I happen to have the TS830S. I had been looking for a 520, figuring that I'd never come across a TS-830S, and then I literally have one fall in my lap.

Having said that, I probably would have been just as happy to have obtained a 520 if that opportunity had come first.

The 830S continues to be my best radio owned to date, and that includes a few new HF transceivers. It does have a lot more features than the 520, the WARC bands in particular are nice.

IMHO, if you have the opportunity to obtain a working 830S, take it, especially if you have the funds. If a 520 is all you can afford, you will not be disappointed with that rig either. The 830 is simply a higher end radio.

As Ken points out, tne fun part of either of these stations is the challenge to obtain all of the "complete station" components, such as the monitor scope, speaker etc...

Nothing like owning/collecting a classic radio that has performance at least equal to, if not rivaling in some aspects, current technology!

73,
Bob - KA9FLX

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
> I can only speak to my own station, which is a TS-830S.
> I have with it:
>
> SM-220 Station Monitor Scope
> VFO-230 Digital External VFO
> SP-230 Speaker
>
> I'm currently looking for an AT-230 Antenna Tuner
>
> Once I get the AT-230, I'll be finished. The setup
> all matches, except for the SM, which is a little
> taller and the others. All color-coordinated, etc.,
> and the XYL seems to appreciate that it looks
> so good.
>
> My previous rig, which I still have, is a
> Heathkit SB-102 that I built myself in 1969, and
> it has the matching station console and
> speaker.

>
> Just my thoughts. YTMV
>
> 73s
> Ken W8ASA
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jody Mills
> Sent: Thursday, September 28, 2006 10:27 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] 520 or 830 series?
>
>
> I currently have a non-working 520s that I've been meaning to send in
> for professional restoration. I now have an opportunity to purchase a
> working 830s for a few hundred bucks. I would like to create a
> Kenwood-only "vintage" station with any accessory equipment that was
> manufactured to go with a specific transceiver. My quandary is this:
> Which way should I go--the 830 series or the 520 series? Do both
> transceivers have accessory lines (antenna tuners, station monitors,
> etc.)? Is one series easier to find accessories for than another?
>
> I only have enough funds to go with one station setup, so I want to
> make the smartest choice here.
>
> Thanks!
>
>
>
>
>
>
> Yahoo! Groups Links
>

9654. Re: KA2HHB TS830S Update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 19:45:58 UTC
From: max_ve3tmt
Topic: 9641 Message: 9654

--- In TS-520_820_530_830@yahoogroups.com, "wb7_ssn" <future212@...>
wrote:
>
> Hello,
>
> One thing to try with the LED's is to sand a flat spot in them. You
> can diffuse the light over a bigger area. You can customize how you
> want (direction and width) the light diffused. Take a look at the link
> below, the led info is towards the end.

Excellent information. I will have to give it a try. Just one more reason to take the cover off! Hey Walt, if you can identify that trimmer for me I'll give it a try too! Now you got me thinking I've adjusted the trimmers too far, but I think it sounds pretty could, just a slight more bit of lows. If I bring it up it starts to sound tinny.

Max

9655. TS520 files

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-28 22:35:57 UTC
From: pa3agz
Topic: 9655 Message: 9655

To all TS520 fans,

I've posted 2 files about the good old TS520 series

73's de Bill PA3AGZ

P.S. Look at some photo's from the old Kenwood Hamclock

9656. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 02:18:24 UTC
From: Phil
Topic: 9643 Message: 9656

AADE makes a plug and play display specifically for the TS-520S/SE. I have one, with the optional blue two line display, and it is fantastic. One line is my callsign and first name, the other is the frequency.

BUT - I had to tweak it myself - the holes for the RCA jacks on the back were not big enough to allow good contact with a wide variety of RCA plugs. I took out the PC boards, drilled the holes bigger, re-installed using deoxit on the plug in strip and the jacks. Works 100% perfect now.

Phil VY2PR

--- In TS-520_820_530_830@yahoogroups.com, "Sean.....He's the cat that won't cop out even when there's danger all about....." <seanfried@...> wrote:
>
> This is largely subjective. Both lines have a full line of matching goodies.
> The 830 will do more and can be easily modded to do WARC bands. The 520s
> line is mighty cool and will cost you half as much as the 830 line BUT the
> 520s line only does old school bands and is not as feature rich as the 830s
> line. Both are fairly easy to find accessories, though it seems a little
> tough to find a good digital display for the 520.
>
> If money is not too much of an issue go 830. That said a full 520s shack
> would suit me just fine.
>
> Funny that tranceivers are now being considered vintage. I remember
> operating my dad's DX-100 and 75A4 and wishing we could get a new 820s.
>
> Best regards,
>
> Sean
> N9FQ
>
>
> >From: "Jody Mills" <jody.mills@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com

> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: [TS-520_820_530_830] 520 or 830 series?
> >Date: Thu, 28 Sep 2006 14:26:37 -0000
> >
> >I currently have a non-working 520s that I've been meaning to
send in
> >for professional restoration. I now have an opportunity to
purchase a
> >working 830s for a few hundred bucks. I would like to create a
> >Kenwood-only "vintage" station with any accessory equipment that
was
> >manufactured to go with a specific transceiver. My quandary is
this:
> >Which way should I go--the 830 series or the 520 series? Do both
> >transceivers have accessory lines (antenna tuners, station
monitors,
> >etc.)? Is one series easier to find accessories for than another?
> >
> >I only have enough funds to go with one station setup, so I want
to
> >make the smartest choice here.
> >
> >Thanks!
> >
> >
> >
>

9657. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 04:24:13 UTC
From: Jody Mills
Topic: 9643 Message: 9657

```
>
> As Ken points out, tne fun part of either of these stations is the
> challenge to obtain all of the "complete station" components, such as
> the monitor scope, speaker etc...
>
> Nothing like owning/collecting a classic radio that has performance
at
> least equal to, if not rivaling in some aspects, current technology!
>
> 73,
> Bob - KA9FLX
```

9658. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 04:24:34 UTC
From: Jody Mills
Topic: 9643 Message: 9658

>
> As Ken points out, tne fun part of either of these stations is the
> challenge to obtain all of the "complete station" components, such as
> the monitor scope, speaker etc...
>
> Nothing like owning/collecting a classic radio that has performance
at
> least equal to, if not rivaling in some aspects, current technology!
>
> 73,
> Bob - KA9FLX

9659. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 04:24:12 UTC
From: Jody Mills
Topic: 9643 Message: 9659

>
> As Ken points out, tne fun part of either of these stations is the
> challenge to obtain all of the "complete station" components, such as
> the monitor scope, speaker etc...
>
> Nothing like owning/collecting a classic radio that has performance
at
> least equal to, if not rivaling in some aspects, current technology!
>
> 73,
> Bob - KA9FLX

9660. 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 12:46:41 UTC
From: n9wb
Topic: 9643 Message: 9660

The TS 520 is a very basic rig that is built like a Sherman tank. It is a very good rig that performs well. It is relatively easy to service.
The TS 830 is one of the finest rigs from a technically design standpoint ever made. But it has some mechanical deficiencies compared to the TS-520.

This said, it is still relatively easy to work on compared to today's current rigs. The problems with the TS 830 are as follows:
The bandswitch was of an era that contacts were installed with rivets. The dissimilar materials caused these to become intermittent. If you are any good at component level repair, this can be presently fixed by soldering the rivets to the contacts and the foil on the switch wafers and if done properly, the failure will never occur again. The other problem is that after 25 years or so the shaft couplings on the bandswitch shaft break. These couplings can be replaced.

The third danger with the TS 830 is that you are likely to find that it is superior to your new $2500.00 to $14,000 rig and you will suffer from disillusionment of your modern rig.

The TS-520 is a wonderful rugged rig.
The TS 820 is a slightly more advanced rig with a digital readout.
The TS 530 is about the same as the 820 with Warc bands.
The TS 830 is one of the highest performance analogue rigs ever built.

I currently have a TS 820 that I will never part with.
But some day I am also going to have a TS-830.
I recommend the TS-830. Then fix the 520 too !

Vie 73, Walt N9WB

----- Original Message -----
From: Jody Mills
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, September 28, 2006 9:26 AM
Subject: [TS-520_820_530_830] 520 or 830 series?

I currently have a non-working 520s that I've been meaning to send in
for professional restoration. I now have an opportunity to purchase a
working 830s for a few hundred bucks. I would like to create a
Kenwood-only "vintage" station with any accessory equipment that was
manufactured to go with a specific transceiver. My quandary is this:
Which way should I go--the 830 series or the 520 series? Do both
transceivers have accessory lines (antenna tuners, station monitors,
etc.)? Is one series easier to find accessories for than another?

I only have enough funds to go with one station setup, so I want to
make the smartest choice here.

Thanks!

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.9/458 - Release Date: 9/27/06

[Non-text portions of this message have been removed]

9661. Re: [TS-520_820_530_830] 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 12:17:09 UTC
From: David Rust
Topic: 9643 Message: 9661

Walt, this was well said. I totally agree.
73 Dave W0DLR

The TS-520 is a wonderful rugged rig.
The TS 820 is a slightly more advanced rig with a digital readout.
The TS 530 is about the same as the 820 with Warc bands.
The TS 830 is one of the highest performance analogue rigs ever built.

[Non-text portions of this message have been removed]

9662. VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 12:32:38 UTC
From: Darwin, Keith
Topic: 9650 Message: 9662

I've assumed the VF0 230 would degrade RX performance in the 830s since it is a synthesized VFO and would create problems with synthesizer noise that the regular VFO doesn't create. If I'm right, won't the VFO 240 be a better choice for top-notch receiver performance ?

What's the general consensus about which VFO to use with the 830s? There are clearly a lot more 230s than 240s.

- Keith KD1E -

[Non-text portions of this message have been removed]

9663. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 12:50:07 UTC
From: max_ve3tmt
Topic: 9643 Message: 9663

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Walt, this was well said. I totally agree.
> 73 Dave W0DLR
>
>
> The TS-520 is a wonderful rugged rig.
> The TS 820 is a slightly more advanced rig with a digital readout.
> The TS 530 is about the same as the 820 with Warc bands.
> The TS 830 is one of the highest performance analogue rigs ever built.

Once you get around the problems you expect from a 20+ year old radio,
the 830 is great. Easy to work on, no SMD components and easy to mod!!

Max

9664. Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 13:42:00 UTC
From: Jody Mills
Topic: 9664 Message: 9664

Thanks for the replies on my previous question regarding the 520 vs. the 830 series. Due to the fact that the 830 I was looking at on ebay is now up to $500 and will likely sell for at least $600 at auction end, it is no longer an economical purchase for me. Just for price comparison, a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I originally purchased the 520 on ebay for $120 (knowing it was non-working) and figure I'll pay around $300 for refurbishing, which is still considerably less than what I would pay for a brand new transceiver of any brand.

Now I am interested in finding out what peripheral equipment Kenwood manufactured for use with the 520 series of transceiver and their model numbers. I'll need to know this when I go searching on ebay again...

Thanks again!

Jody

[Non-text portions of this message have been removed]

9665. RE: [TS-520_820_530_830] Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 14:07:40 UTC
From: Darwin, Keith
Topic: 9664 Message: 9665

E-Bay - it pays to know what you're doing. 830s Rigs seem to go for about $300 with no CW filters and something like $400 with both CW filters. There is some variability of course. My current 830s I got with 2 CW filters for $375 BIN. The one I had 8 mos ago I got for $290 (IIRC) with no filters and sold it for more than that. Sometimes people bid way too much for an item. Sometimes the bidding ends at a surprisingly low number (often when I sell things). If you're reasonable with your expectations and patient enough to wait for a good deal, you can usually get what you want at a price that is fair. Fair means a price that you could get if you were to resell the rig in a month or two, not necessarily what you were expecting the thing to cost or what it's worth to you.

Your 520 at $120 plus $300 for refurbishing comes up to be $420 which is more than most 830s rigs would cost. True, the 520 would be refurbished for that price but most $350 830's are in very useable condition making professional refurbishing a nice-to-have rather than a must-have.

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jody Mills
Sent: Friday, September 29, 2006 9:42 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Peripheral equipment for the 520s?

Thanks for the replies on my previous question regarding the 520 vs. the 830 series. Due to the fact that the 830 I was looking at on ebay is now up to $500 and will likely sell for at least $600 at auction end, it is no longer an economical purchase for me. Just for price comparison, a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I originally purchased the 520 on ebay for $120 (knowing it was non-working) and figure I'll pay around $300 for refurbishing, which is still considerably less than what I would pay for a brand new transceiver of any brand.

Now I am interested in finding out what peripheral equipment Kenwood manufactured for use with the 520 series of transceiver and their model numbers. I'll need to know this when I go searching on ebay again...

Thanks again!

Jody

[Non-text portions of this message have been removed]

Yahoo! Groups Links

9666. Re: Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 14:36:01 UTC
From: max_ve3tmt
Topic: 9664 Message: 9666

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:

True, the 520 would be refurbished for that price but most $350 830's
are in very useable condition making professional refurbishing a
nice-to-have rather than a must-have.

The topper...

I traded away my TS850S for the 830 lineup I have now and honestly I
can say I am having more fun with it than I ever had with the 850.
Sure the 850 is solid state, no-tune, memories and such but I can do
everything on the 830 I did with the 850, except true FSK keying and
no PC control. But I don't miss those features. If I was a heavy
contestor, obviously I woudn't be using a tube final rig, but for
casual operating the 830 is a great radio, the receiver is super quiet
and it sounds better than my 850 ever did. I repainted all the cases
to the same color Kenwood uses on the current rigs and it looks very
nice on the desk. You can see the staion on QRZ.com.

73,
Max VE3TMT

9667. Re: [TS-520_820_530_830] Re: DC-DC converter DS-2 for TS-830 M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 15:19:45 UTC
From: John Harp
Topic: 9637 Message: 9667

Yes I agree, An external inverter is an excellent idea for use. The 830 uses up to I think 295 watts total at standard 120. I once bought an inverter for this at a truck stop intending to make a tank circuit to clean the AC to a sinewave. Never finished the project but my inverter is in someone elses truck for thier TV and laptop right now.

They can be purchased for as little as US$ 100 and can be found in not just truck stops but automotive stores, Northern Tool catalogs, and even the web pages, just run a search engine for inverters.

My idea is to someday buid a DC back up and have several batteries to the inverter, and maybe attach an poer supply for charging and solar cells. Then I can have just the Linear to power from 220.

It can allow the flexibility for other 12 volt items too. Then just about anything of smaller draw can join the power supply. Like a VFO-230. You can even go to mobile and portable to some degree. What would field day be like with your 830? It adds flexibility to your station even off the grid to some extent.

n9wb <n9wb@...> wrote:
As inexpensive as inverters are today, consider the possibility of just
using an external inverter.

Vy 73, Walt N9WB

----- Original Message -----
From: iz2gaq
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 27, 2006 11:48 AM
Subject: [TS-520_820_530_830] Re: DC-DC converter DS-2

>
> --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> >
> > I'm looking for a DC-DC converter to install on my 830M.
> > Does anybody have one?
> > By the way, I have a DS-1A brand new in the original box, with cable.
> > Of course, I cannot use it as it goes with 820S and not with the 830,
> > but if I cannot find a DS-2 I could adapt it.
> >
> > Suggestions?
> > Thanks
> > 73
> > Dom IZ2GAQ
> >

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at

1¢/min.

[Non-text portions of this message have been removed]

9668. Re: [TS-520_820_530_830] 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 15:34:25 UTC
From: John Harp
Topic: 9643 Message: 9668

I'd suggest to choose which radio you prefer to us and set that up for now and see how you fell and think about it down the road. You already are familiar with the 520, see how you feel overall with the 830. I have an 830 now and my elmer had the 520SE. I've seen both. My preference is the 830 for me.

When I bought my first 830 back in the early 80's I was familiar with the 520 from Dale. I dreamed of a 920 but no way to fund it. As it was it took me 2 weeks vacation pay and all the savings I could muster at the time. Boy what a rough year. Anyways, that got me thru 25 years of off and on air time dabbling from all sorts of locations. now I have my second 830 as my first gets used by Dale as we try to get it up and running again.

Find out which one you like to operate primary and set the other up as backup. That's my suggestion. Both may share some common accessories as far as hookups go. But you can only use one at a time.

Jody Mills <jody.mills@...> wrote:
I currently have a non-working 520s that I've been meaning to send in
for professional restoration. I now have an opportunity to purchase a
working 830s for a few hundred bucks. I would like to create a
Kenwood-only "vintage" station with any accessory equipment that was
manufactured to go with a specific transceiver. My quandary is this:
Which way should I go--the 830 series or the 520 series? Do both
transceivers have accessory lines (antenna tuners, station monitors,
etc.)? Is one series easier to find accessories for than another?

I only have enough funds to go with one station setup, so I want to
make the smartest choice here.

Thanks!

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9669. Re: VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 15:34:20 UTC
From: w9dz
Topic: 9650 Message: 9669

Keith,

I haven't had experience with either the VFO 230 or 240. The other possibility, if you're not stuck with wanting an exact style match, is the VFO-120. It is rarely mentioned but the 120 works fine with the 830S. Most seem to sell for under $100. In fact, there was one on QTH.COM a week or so ago for $55.

Allen, W9DZ

520_820_530_830@yahoogroups.com, "Darwin, Keith" <keith.darwin@...> wrote:
>
>
> I've assumed the VF0 230 would degrade RX performance in the 830s since
> it is a synthesized VFO and would create problems with synthesizer noise
> that the regular VFO doesn't create. If I'm right, won't the VFO 240 be
> a better choice for top-notch receiver performance ?
>
> What's the general consensus about which VFO to use with the 830s?
> There are clearly a lot more 230s than 240s.
>
>
> - Keith KD1E -
>
>
> [Non-text portions of this message have been removed]
>

9670. Re: [TS-520_820_530_830] 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 15:57:07 UTC
From: BRENT BAUM
Topic: 9643 Message: 9670

For purely selfish reasons, on my part, I say go with the 830 series. I'm trying to build out a complete 520 station, and there is already too much competition for the accessories. :) All I have left to get, I think, is the AT-200, PC-1, and TV-502. I currently have a 520SE (under modification at this time to connect the transverters), TV-506, SP-520, VFO-520S, DG-5 and an Astatic D-100 "Black Eagle" mic.

Have fun building and operating your station.
K7MEI, Brent

>From: John Harp <ka3dpw@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] 520 or 830 series?
>Date: Fri, 29 Sep 2006 08:34:25 -0700 (PDT)
>
> I'd suggest to choose which radio you prefer to us and set that up for
>now and see how you fell and think about it down the road. You already are
>familiar with the 520, see how you feel overall with the 830. I have an
>830 now and my elmer had the 520SE. I've seen both. My preference is the
>830 for me.
>
> When I bought my first 830 back in the early 80's I was familiar with
>the 520 from Dale. I dreamed of a 920 but no way to fund it. As it was it
>took me 2 weeks vacation pay and all the savings I could muster at the
>time. Boy what a rough year. Anyways, that got me thru 25 years of off and
>on air time dabbling from all sorts of locations. now I have my second 830
>as my first gets used by Dale as we try to get it up and running again.
>
> Find out which one you like to operate primary and set the other up as
>backup. That's my suggestion. Both may share some common accessories as far
>as hookups go. But you can only use one at a time.
>
>Jody Mills <jody.mills@...> wrote:
> I currently have a non-working 520s that I've been meaning to
>send in
>for professional restoration. I now have an opportunity to purchase a
>working 830s for a few hundred bucks. I would like to create a
>Kenwood-only "vintage" station with any accessory equipment that was
>manufactured to go with a specific transceiver. My quandary is this:
>Which way should I go--the 830 series or the 520 series? Do both
>transceivers have accessory lines (antenna tuners, station monitors,
>etc.)? Is one series easier to find accessories for than another?
>
>I only have enough funds to go with one station setup, so I want to

>make the smartest choice here.
>
>Thanks!
>
>
>
>
>
>
>---------------------------------
>Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
>[Non-text portions of this message have been removed]
>

9671. Re: [TS-520_820_530_830] Re: DC-DC converter DS-2 for TS-830 M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 15:37:29 UTC
From: Rich Jones
Topic: 9637 Message: 9671

John: The WD8IEL, Chelsea, Michigan ARC has used a TS520s for the last three years on field day. We use gasoline powered generators and the rig perks along just fine. It is mostly used on 40 SSB. I must admit I take my TS940 to field day, I am the CW opt and constiently cruising the bands for contacts rather than staying fixed. Next year how ever I am going to take a TS530 instead of the TS940 and try staying on one band calling. And yes, I use a J-38 key to keep up with the times. I am looking forward to that. KG7FS

John Harp <ka3dpw@...> wrote: Yes I agree, An external inverter is an excellent idea for use. The 830 uses up to I think 295 watts total at standard 120. I once bought an inverter for this at a truck stop intending to make a tank circuit to clean the AC to a sinewave. Never finished the project but my inverter is in someone elses truck for thier TV and laptop right now.

They can be purchased for as little as US$ 100 and can be found in not just truck stops but automotive stores, Northern Tool catalogs, and even the web pages, just run a search engine for inverters.

My idea is to someday buid a DC back up and have several batteries to the inverter, and maybe attach an poer supply for charging and solar cells. Then I can have just the Linear to power from 220.

It can allow the flexibility for other 12 volt items too. Then just about anything of smaller draw can join the power supply. Like a VFO-230. You can even go to mobile and portable to some degree. What would field day be like with your 830? It adds flexibility to your station even off the grid to some extent.

n9wb <n9wb@...> wrote:
As inexpensive as inverters are today, consider the possibility of just
using an external inverter.

Vy 73, Walt N9WB

----- Original Message -----
From: iz2gaq
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, September 27, 2006 11:48 AM
Subject: [TS-520_820_530_830] Re: DC-DC converter DS-2

>
> --- In TS-520_820_530_830@yahoogroups.com, "iz2gaq" <ibd@> wrote:
> >
> > I'm looking for a DC-DC converter to install on my 830M.
> > Does anybody have one?
> > By the way, I have a DS-1A brand new in the original box, with cable.
> > Of course, I cannot use it as it goes with 820S and not with the 830,
> > but if I cannot find a DS-2 I could adapt it.
> >

> > Suggestions?
> > Thanks
> > 73
> > Dom IZ2GAQ
> >

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9672. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 15:24:24 UTC
From: w5rkl
Topic: 9643 Message: 9672

Over the years I've had the pleasure of owning and operating a 520SE with the DG-1 digital display, 530S with remote VFO and an 820S also with remote VFO plus the SM-220 display. All 3 radios are, in my opinion, excellent transceivers. It just so happens my 820S is down hard with receive problems, a shame since I really like the 820S.

I no longer own the 520SE or 530S. Since I have never owned or operated an 830S, I can not comment on it but I'm sure it's as good as folks here have said it is.

Simply put, the Kenwood 520, 520S, 520SE, 530S and 820S are excellent transceivers. All of them are rugged, easy to use and, based on each model, have all the necessary features for ham use.

In closing, I find simplicity works best for me. I would take a 520, 530, 820 and 830 over any of the new radios today! They simply do the job and do it right without all those rediculous menus and features that most hams would, more than likely, never use! Therefore, if you have the opportunity to pick up a good 520, 530, 820 or 830, take it, you will not be disappointed.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > Walt, this was well said. I totally agree.
> > 73 Dave W0DLR
> >
> >
> > The TS-520 is a wonderful rugged rig.
> > The TS 820 is a slightly more advanced rig with a digital readout.
> > The TS 530 is about the same as the 820 with Warc bands.
> > The TS 830 is one of the highest performance analogue rigs ever built.
>
> Once you get around the problems you expect from a 20+ year old radio,
> the 830 is great. Easy to work on, no SMD components and easy to mod!!
>
> Max
>

9673. Re: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 16:37:23 UTC
From: Pierre Wells
Topic: 9650 Message: 9673

To the best of my knowledge the VF0 230 is not synthesized. It's the last if not one of the last analog vfo's from Kenwood.
Peter VE2FAR

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9674. Re: [TS-520_820_530_830] 520 restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 16:45:45 UTC
From: David Rust
Topic: 9674 Message: 9674

I would suggest you take the 520 as a restoration learning project. Don't be intimidated by one. I never was, I have made a few radios much worse before I got them better. Don't be afraid to ask for help here. I know there are lots of folks on here that are very knowledgeable about these radios. The best way I know of to learn is by doing. Just remember you are not in this alone, and also remember these old transceivers will bite you too. They have unfriendly voltage in there, so keep one hand behind you. But go for it, most of the time my theory is I have nothing to lose, its dead anyway.
73 Dave W0DLR

[Non-text portions of this message have been removed]

9675. Re: [TS-520_820_530_830] Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 16:42:07 UTC
From: David Rust
Topic: 9643 Message: 9675

Mike, without beating this subject to death, the thing I appreciate most about the old Kenwoods is I can change bands, etc. and not have to get out a manual to see what went wrong. I can piddle with my FT857d, which is a nice little radio, but without a manual, I get it off in the weeds. Give me the knobs anytime, I'm too old to remember menus. Much like a new GPS I have, I might as well have a left seat in the space shuttle, either would be about as foreign. Doesnt do any good to try to remember how to use it, next time its all new. Just too old for new fangled toys I guess.
73
Dave W0DLR

[Non-text portions of this message have been removed]

9676. Re: [TS-520_820_530_830] VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 16:47:48 UTC
From: Peter A Markavage
Topic: 9650 Message: 9676

I've owned an 830 and a VFO-230 for 25 years and never experienced a
degrading of receiver performance.

Pete, wa2cwa

On Fri, 29 Sep 2006 08:32:38 -0400 "Darwin, Keith"
<keith.darwin@...> writes:
>
> I've assumed the VF0 230 would degrade RX performance in the 830s
> since
> it is a synthesized VFO and would create problems with synthesizer
> noise
> that the regular VFO doesn't create. If I'm right, won't the VFO
> 240 be
> a better choice for top-notch receiver performance ?
>
> What's the general consensus about which VFO to use with the 830s?
> There are clearly a lot more 230s than 240s.
>
>
> - Keith KD1E -

9677. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 17:07:47 UTC
From: Ellen R
Topic: 9643 Message: 9677

Hi Jody,

I've used both the 520S, and the 830S. Both are good radios in my opinion. Ifyou only have one radio, and insist upon WARC band coverage, go with the 830S. I used one at W9YT (the Univ. of WI Ham club), and it was great. I briefly had a TS-520S, and 9it was a good radio. I have a TS-820, and it's a good radio. I has no WARC bands capability, but i think it has character. Go with your gut feelings. They're all good radios.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills" <jody.mills@...> wrote:
>
> I currently have a non-working 520s that I've been meaning to send in
> for professional restoration. I now have an opportunity to purchase a
> working 830s for a few hundred bucks. I would like to create a
> Kenwood-only "vintage" station with any accessory equipment that was
> manufactured to go with a specific transceiver. My quandary is this:
> Which way should I go--the 830 series or the 520 series? Do both
> transceivers have accessory lines (antenna tuners, station monitors,
> etc.)? Is one series easier to find accessories for than another?
>
> I only have enough funds to go with one station setup, so I want to
> make the smartest choice here.
>
> Thanks!
>

9678. RE: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 17:15:22 UTC
From: Darwin, Keith
Topic: 9650 Message: 9678

VFO 230 not synthesized? I hadn't even considered that. I figured if it had memory, it had to be synth. Maybe not though.

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Pierre Wells
Sent: Friday, September 29, 2006 12:37 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

To the best of my knowledge the VF0 230 is not synthesized. It's the last if not one of the last analog vfo's from Kenwood.
Peter VE2FAR

9679. TS-520 Crystal Change

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 17:13:04 UTC
From: baumbrent
Topic: 9679 Message: 9679

I opened up my 520SE to replace the 11m crystals with the proper crystals for 10m. It appears to me that the easiest way to do it, because the Osc/Crystal board is at the front of the pack, is to remove the entire Oscillator/coil unit from the radio. I can then replace the crystals without having to remove/unsolder the board from the chassis. However, the selector shaft and wafer board rods run through this whole assembly as well.

My questions are is there a better way to replace the crystals? Is there a best method for removing the mode selector shaft and wafer board rods?

Thanks,
Brent, K7MEI

9680. Re: VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 19:14:56 UTC
From: Clif
Topic: 9650 Message: 9680

--- In TS-520_820_530_830@yahoogroups.com, Pierre Wells
<lool5552002@...> wrote:
>
>
> To the best of my knowledge the VF0 230 is not synthesized. It's the
last if not one of the last analog vfo's from Kenwood.
> Peter VE2FAR
>
>

The VFO-230 IS synthesized. The VFO-240 is analog. They were the last
remote VFO's built. The radios after the 830 were synthesized and have
dual VFO's built in.

Clif

9681. Re: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 19:33:49 UTC
From: wa7zyq
Topic: 9650 Message: 9681

Another option is the DFC-230, a digital frequency controller which is very compact, allows the use of an up/down microphone and also has 4 memories (if memory serves). I have a couple and paid about $70 for each of them. They are also great with a TS-120 or TS-130S for mobile or portable service.

David, WA7ZYQ

----- Original Message -----
From: w9dz
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 29, 2006 8:34 AM
Subject: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

Keith,

I haven't had experience with either the VFO 230 or 240. The other possibility, if you're not stuck with wanting an exact style match, is the VFO-120. It is rarely mentioned but the 120 works fine with the 830S. Most seem to sell for under $100. In fact, there was one on QTH.COM a week or so ago for $55.

Allen, W9DZ

520_820_530_830@yahoogroups.com, "Darwin, Keith" <keith.darwin@...>
wrote:
>
>
> I've assumed the VF0 230 would degrade RX performance in the 830s
since
> it is a synthesized VFO and would create problems with synthesizer
noise
> that the regular VFO doesn't create. If I'm right, won't the VFO
240 be
> a better choice for top-notch receiver performance ?
>
> What's the general consensus about which VFO to use with the 830s?
> There are clearly a lot more 230s than 240s.
>
>
> - Keith KD1E -
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9682. RE: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 20:10:52 UTC
From: Nobody Nowhere
Topic: 9650 Message: 9682

Another alternative is the dfc-230. It works great with the TS830 also.

>From: "w9dz" <w9dz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?
>Date: Fri, 29 Sep 2006 15:34:20 -0000
>
>Keith,
>
>I haven't had experience with either the VFO 230 or 240. The other
>possibility, if you're not stuck with wanting an exact style match, is
>the VFO-120. It is rarely mentioned but the 120 works fine with the
>830S. Most seem to sell for under $100. In fact, there was one on
>QTH.COM a week or so ago for $55.
>
>Allen, W9DZ
>
>520_820_530_830@yahoogroups.com, "Darwin, Keith" <keith.darwin@...>
>wrote:
> >
> >
> > I've assumed the VF0 230 would degrade RX performance in the 830s
>since
> > it is a synthesized VFO and would create problems with synthesizer
>noise
> > that the regular VFO doesn't create. If I'm right, won't the VFO
>240 be
> > a better choice for top-notch receiver performance ?
> >
> > What's the general consensus about which VFO to use with the 830s?
> > There are clearly a lot more 230s than 240s.
> >
> >
> > - Keith KD1E -
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

9683. Re: [TS-520_820_530_830] Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 21:19:58 UTC
From: Jim Stoneback
Topic: 9664 Message: 9683

Before giving up on the 830, try qth.com. You may find one for around $400. 73, Jim K4AXF
----- Original Message -----
From: Jody Mills
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 29, 2006 9:42 AM
Subject: [TS-520_820_530_830] Peripheral equipment for the 520s?

Thanks for the replies on my previous question regarding the 520 vs. the
830 series. Due to the fact that the 830 I was looking at on ebay is
now up to $500 and will likely sell for at least $600 at auction end, it
is no longer an economical purchase for me. Just for price comparison,
a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I
originally purchased the 520 on ebay for $120 (knowing it was
non-working) and figure I'll pay around $300 for refurbishing, which is
still considerably less than what I would pay for a brand new
transceiver of any brand.

Now I am interested in finding out what peripheral equipment Kenwood
manufactured for use with the 520 series of transceiver and their model
numbers. I'll need to know this when I go searching on ebay again...

Thanks again!

Jody

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

9684. RE: [TS-520_820_530_830] Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 23:07:22 UTC
From: BRENT BAUM
Topic: 9664 Message: 9684

Jody,
Look at my previous post where I teased you about the competition for 520 peripherals. I think I listed all of them at that time.

Anyway here goes to the best of my knowledge: TS-520(s)(se) transceiver, SP-520 speaker, VFO-520(s) external VFO, DG-5 digital frequency display, TV-502 2 meter transverter, TV-506 6 meter transverter, PC-1(a) phone patch, MC-50 or MC-60 microphone, AT-200 antenna tuner. The SM-220 station monitor scope really doesn't match the appearance of the 520 line, but it fits in.

Anything else, group members?

Have fun building your station. Please don't out bid me on e-bay. :)

Brent, K7MEI

>From: "Jody Mills" <jody.mills@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Peripheral equipment for the 520s?
>Date: Fri, 29 Sep 2006 13:42:00 -0000
>
>
>Thanks for the replies on my previous question regarding the 520 vs. the
>830 series. Due to the fact that the 830 I was looking at on ebay is
>now up to $500 and will likely sell for at least $600 at auction end, it
>is no longer an economical purchase for me. Just for price comparison,
>a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I
>originally purchased the 520 on ebay for $120 (knowing it was
>non-working) and figure I'll pay around $300 for refurbishing, which is
>still considerably less than what I would pay for a brand new
>transceiver of any brand.
>
>Now I am interested in finding out what peripheral equipment Kenwood
>manufactured for use with the 520 series of transceiver and their model
>numbers. I'll need to know this when I go searching on ebay again...
>
>Thanks again!
>
>Jody
>
>
>
>[Non-text portions of this message have been removed]
>

9685. TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 21:36:38 UTC
From: Jim Stoneback
Topic: 9685 Message: 9685

One last try before I ship it to a repair shop. Has anyone fixed this problem before?

My TS830s has no sidetone, thus no semi-QSK CW.

With MON switch on, key depressed, there is no sine wave at TP1, no qsk, no CW output.

I injected a tone at TP1 and get sidetone, semi-qsk action and CW output.

I checked all the components in the sidetone circuit with no bad components found; replaced transistor and zener anyway, to no avail. My confidence is shaken. Help!

73,

Jim Stoneback
K4AXF
http://www.qsl.net/k4axf

9686. Re: [TS-520_820_530_830] Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 23:21:20 UTC
From: Bill Scurlock
Topic: 9664 Message: 9686

Jody, send me an email to k5gcw@... . I'll try to get back with you with direct email tomorrow when I return home.

73, Bill, K5GCW
----- Original Message -----
From: Jody Mills
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 29, 2006 8:42 AM
Subject: [TS-520_820_530_830] Peripheral equipment for the 520s?

Thanks for the replies on my previous question regarding the 520 vs. the 830 series. Due to the fact that the 830 I was looking at on ebay is now up to $500 and will likely sell for at least $600 at auction end, it is no longer an economical purchase for me. Just for price comparison, a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I originally purchased the 520 on ebay for $120 (knowing it was non-working) and figure I'll pay around $300 for refurbishing, which is still considerably less than what I would pay for a brand new transceiver of any brand.

Now I am interested in finding out what peripheral equipment Kenwood manufactured for use with the 520 series of transceiver and their model numbers. I'll need to know this when I go searching on ebay again...

Thanks again!

Jody

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9687. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 23:31:23 UTC
From: Gordon
Topic: 9685 Message: 9687

Jim,
Check the resistors R12 and R13 (100k) on the rectifier board.
One and/or both could be open or have increased in value.

What are Voltage readings on Q1 on the AF board ?

Gordon
'N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback"
<jstonebk@...> wrote:
>
> One last try before I ship it to a repair shop. Has anyone fixed this
> problem before?
>
> My TS830s has no sidetone, thus no semi-QSK CW.
>
> With MON switch on, key depressed, there is no sine wave at TP1, no
qsk, no
> CW output.
>
> I injected a tone at TP1 and get sidetone, semi-qsk action and CW
output.
>
> I checked all the components in the sidetone circuit with no bad
components
> found; replaced transistor and zener anyway, to no avail. My
confidence is
> shaken. Help!
>
> 73,
>
> Jim Stoneback
> K4AXF
> http://www.qsl.net/k4axf
>

9688. Re: Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-29 23:36:19 UTC
From: james27613
Topic: 9664 Message: 9688

hi,

while not a Kenwood accessory, the Spectronics
digital display is a nice too.

Henry had the same units, the one I have
uses nixie tubes.

take a look in the photo section.

not a must have but an Astatic mic,
looks great and you can use the back of the mic
as a mirror to check if you have the sg switch off
at the rear of the rigs !

73 james ke4drn

9689. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 16:03:49 UTC
From: Don
Topic: 9643 Message: 9689

To the Group;

I have had a ts-530s and a ts820s,and a ts-930s. Both the 530 and 820 were good rigs and served me well. Should have never gotten rid of my TS-530S. The TS-930s was bought new and from about 6 months down the road it became a problem plagued radio and I would put it into the 'DOG Class'. Best day in my life was when someone bought it, after much of my dollars were poured into it for repairs.
I have been looking for a good review(please don't send me to ARRL or E-Ham, been there done that)on the TS-830S, this is the rig that is the predecessor to the 930.
Do any of you know where I can go and read a write-up about this rig.
I have the manual, etc. But Iam looking for someone that set in front of this rig and actually has operated it for a while on the bands(Ham).
Give me an honest opinion based on their experiences.
I know where there are two of them(very nice condx)and looking at buying one for my shack(like I really need another HF rig).

Please forgive me for the long post.
Don/w5dja@...

9690. Re: 520 or 830 series?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 14:47:29 UTC
From: n9wb
Topic: 9643 Message: 9690

One good thing about the 520, you already have it. It is a very good rig and if you fix it and later decide to get something else, it will be worth much more fixed. You also get an education.

So tell us all about it, what is wrong and lets see if we can't get to fixen!

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9691. Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 16:50:44 UTC
From: wb4mnk
Topic: 9691 Message: 9691

Hi to All, I am working on a TS-830S and I am at the alignment of the carrier balance adjustment. In my manual it is item # 14. #14 Carrier balance adjustment. IF shift centered, RF gain fully ccw, rf vtvm, rear panel, IF out #2, TC1 minimun. When I try this I get no indication no matter where TC1 is set. Anyone have an idea what I am doing wrong. Thanks in advance.

73
Art
WB4MNK

9692. want to trade

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 09:24:07 UTC
From: ron
Topic: 9692 Message: 9692

i have a 820s, vfo 820, 830s w/cw filter, and an ic740. would love to trade for a 857 or 897 plain or d model, any interest ? also would consider ft50 but with some boot.... ron ne0x

--
☐Scientific Linux, A Hoot and Free to Boot.....

9693. Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 23:58:26 UTC
From: w7cth
Topic: 9693 Message: 9693

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50 was bad will not drive the radio. I have a D104 that works, but I understand I may have impedance matching problem. Looking on Heil web site I see they have a kit for the D104.Or is it just better to get a new mic?

I do like my D104 it looks cool.
Chris W7CTH

9694. Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 00:40:32 UTC
From: max_ve3tmt
Topic: 9693 Message: 9694

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
> Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
> was bad will not drive the radio. I have a D104 that works, but I
> understand I may have impedance matching problem. Looking on Heil web
> site I see they have a kit for the D104.Or is it just better to get a
> new mic?

Chris,

The 830 mic amp will work with either a low or high impedance load presented to it. Have you tried the D104 on the 830? It should sound pretty good as is unless you have a problem with the D104.

Max VE3TMT

9695. 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 00:49:40 UTC
From: Gordon
Topic: 9695 Message: 9695

Yesterday I had time to swap out the Product detector Diodes on my TS-830 with some Schottky Diodes. I had already performed the Audio Mod by replacing C-106. After I replaced the diodes, I adjusted L-19 and L-20 on my scope.
So, Then I decided to tune across 20 meters. I came across a bit of a pile-up, so I took a listen to see what or who was there. It was 3XM6JR and he was weak, but copyable, so I gave him a call. I tried 3 or 4 times , then decided that the 100 watts from the 830 was NOT going to break through the East Coast wall to work him. So, I fired up the TS-2000 and the Amplifier. I switched the antenna (7 element yagi) over to the 2000 and to my surprise, he was low in the noise and not workable. I then switched back to the 830 and there he was again, weak but workable. So It tells me that this little 830 hears much better then my TS-2000 . I never did get to work the 3XM6JR station, but with the 830 Barefoot I worked I5zss in Italy, then CT1EHI in Portugal, then, UN7DA in Kazakhstan on 20 metrs. I then switched over to 40 meters and my Vertical and worked LU/R1ANF in the south Shetland Islands, then HA5JI in Hungary and finally CO8ZXZ in Cuba. I received Great reports and when I asked I received "Great sounding Audio " reports also. Neither one of my Antennas is over 38 feet off the ground. The beam at 38 feet and the Vertical at 20 feet. I'm pretty happy the way this little 830 turned out. Now, It's time to sell it and purchase another 830 to repair and make new again.
73,
Gordon
N6WK

9696. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 00:36:50 UTC
From: Gordon
Topic: 9691 Message: 9696

Art,
How low of a scale are you using on your VTVM ?
It should be a very low reading, and you are tuning for a minimum..

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi to All, I am working on a TS-830S and I am at the alignment of the
> carrier balance adjustment. In my manual it is item # 14. #14 Carrier
> balance adjustment. IF shift centered, RF gain fully ccw, rf vtvm, rear
> panel, IF out #2, TC1 minimun. When I try this I get no indication no
> matter where TC1 is set. Anyone have an idea what I am doing wrong.
> Thanks in advance.
>
> 73
> Art
> WB4MNK
>

9698. Re: 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 00:58:11 UTC
From: max_ve3tmt
Topic: 9695 Message: 9698

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Yesterday I had time to swap out the Product detector Diodes on my
> TS-830 with some Schottky Diodes. I had already performed the Audio
> Mod by replacing C-106. After I replaced the diodes, I adjusted L-19
> and L-20 on my scope.
> So, Then I decided to tune across 20 meters. I came across a bit of a
> pile-up, so I took a listen to see what or who was there. It was
> 3XM6JR and he was weak, but copyable, so I gave him a call. I tried 3
> or 4 times , then decided that the 100 watts from the 830 was NOT
> going to break through the East Coast wall to work him. So, I fired up
> the TS-2000 and the Amplifier. I switched the antenna (7 element
> yagi) over to the 2000 and to my surprise, he was low in the noise
> and not workable. I then switched back to the 830 and there he was
> again, weak but workable. So It tells me that this little 830 hears
> much better then my TS-2000 . I never did get to work the 3XM6JR
> station, but with the 830 Barefoot I worked I5zss in Italy, then
> CT1EHI in Portugal, then, UN7DA in Kazakhstan on 20 metrs. I then
> switched over to 40 meters and my Vertical and worked LU/R1ANF in the
> south Shetland Islands, then HA5JI in Hungary and finally CO8ZXZ in
> Cuba. I received Great reports and when I asked I received "Great
> sounding Audio " reports also. Neither one of my Antennas is over 38
> feet off the ground. The beam at 38 feet and the Vertical at 20 feet.
> I'm pretty happy the way this little 830 turned out. Now, It's time to
> sell it and purchase another 830 to repair and make new again.
> 73,
> Gordon
> N6WK
>

Congrats Gordon,

I have been thinking about swapping out the diodes but this 830 hears
so well now I'm not sure I want to invest the time! Maybe some day.

73,
Max VE3TMT

9699. Re: [TS-520_820_530_830] Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 20:04:14 UTC
From: KE5EOT
Topic: 9664 Message: 9699

Remember, the accessories for the 520 S and SE series may not work on
the plain 520. The S and SE have a lot more connectors on the back.

Randy (KE5EOT) -.- . ... --- -

Jody Mills wrote:
>
>
>
> Thanks for the replies on my previous question regarding the 520 vs. the
> 830 series. Due to the fact that the 830 I was looking at on ebay is
> now up to $500 and will likely sell for at least $600 at auction end, it
> is no longer an economical purchase for me. Just for price comparison,
> a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I
> originally purchased the 520 on ebay for $120 (knowing it was
> non-working) and figure I'll pay around $300 for refurbishing, which is
> still considerably less than what I would pay for a brand new
> transceiver of any brand.
>
> Now I am interested in finding out what peripheral equipment Kenwood
> manufactured for use with the 520 series of transceiver and their model
> numbers. I'll need to know this when I go searching on ebay again...
>
> Thanks again!
>
> Jody
>
> [Non-text portions of this message have been removed]
>
>

9700. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-09-30 17:56:24 UTC
From: Jim Stoneback
Topic: 9685 Message: 9700

At Gordon's suggestion (below), I checked R12 & R13 and found that R13 was open. Replacing that resistor restored proper vox/qsk-cw operation. My 830 is whole again! I'm sure glad the Kenwood hybrids yahoogroup was there when I needed it!

73 and thanks to all,

Jim K4AXF

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, September 29, 2006 7:31 PM
Subject: [TS-520_820_530_830] Re: TS830 Problem

Jim,
Check the resistors R12 and R13 (100k) on the rectifier board.
One and/or both could be open or have increased in value.

What are Voltage readings on Q1 on the AF board ?

Gordon
'N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback"
<jstonebk@...> wrote:
>
> One last try before I ship it to a repair shop. Has anyone fixed this
> problem before?
>
> My TS830s has no sidetone, thus no semi-QSK CW.
>
> With MON switch on, key depressed, there is no sine wave at TP1, no
qsk, no
> CW output.
>
> I injected a tone at TP1 and get sidetone, semi-qsk action and CW
output.
>
> I checked all the components in the sidetone circuit with no bad
components
> found; replaced transistor and zener anyway, to no avail. My
confidence is
> shaken. Help!
>
> 73,
>
> Jim Stoneback

> K4AXF
> http://www.qsl.net/k4axf
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

9701. Re: [TS-520_820_530_830] Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 01:48:18 UTC
From: Art
Topic: 9691 Message: 9701

Hi Gordon, Thanks for your reply. The VTVM I am using has a 1.5 volt range so I would think I would see some indication on the meter but nothing. Maybe like you say the VTVM does not go low enough. I am not sure but we changed out the diodes in the product detector and balanced modulator also and was wondering if that had anything to do with not getting an indication. We also put a .001 capacitor in the C106 position and added the 100 resistor. Any other ideas?

73
Art
WB4MNK
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 8:36 PM
Subject: [TS-520_820_530_830] Re: Carrier Balance

Art,
How low of a scale are you using on your VTVM ?
It should be a very low reading, and you are tuning for a minimum..

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi to All, I am working on a TS-830S and I am at the alignment of the
> carrier balance adjustment. In my manual it is item # 14. #14 Carrier
> balance adjustment. IF shift centered, RF gain fully ccw, rf vtvm, rear
> panel, IF out #2, TC1 minimun. When I try this I get no indication no
> matter where TC1 is set. Anyone have an idea what I am doing wrong.
> Thanks in advance.
>
> 73
> Art
> WB4MNK
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

9702. Re: [TS-520_820_530_830] Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 05:17:08 UTC
From: Rick May
Topic: 9691 Message: 9702

Hi Art,

You can use also the ALC meter in your 830S to check your carrier balance. With mic gain set to zero, any deflection will indicate carrier output in SSB mode. Do you have another receiver you can use? You can listen to your signal on another receiver and minimize carrier that way.

73' Rick KC0HH

Art <wb4mnk@...> wrote: Hi Gordon, Thanks for your reply. The VTVM I am using has a 1.5 volt range so I would think I would see some indication on the meter but nothing. Maybe like you say the VTVM does not go low enough. I am not sure but we changed out the diodes in the product detector and balanced modulator also and was wondering if that had anything to do with not getting an indication. We also put a .001 capacitor in the C106 position and added the 100 resistor. Any other ideas?

73
Art
WB4MNK
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 8:36 PM
Subject: [TS-520_820_530_830] Re: Carrier Balance

Art,
How low of a scale are you using on your VTVM ?
It should be a very low reading, and you are tuning for a minimum..

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi to All, I am working on a TS-830S and I am at the alignment of the
> carrier balance adjustment. In my manual it is item # 14. #14 Carrier
> balance adjustment. IF shift centered, RF gain fully ccw, rf vtvm, rear
> panel, IF out #2, TC1 minimun. When I try this I get no indication no
> matter where TC1 is set. Anyone have an idea what I am doing wrong.
> Thanks in advance.
>
> 73
> Art
> WB4MNK
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9703. Re: [TS-520_820_530_830] TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 05:59:21 UTC
From: Rick May
Topic: 9703 Message: 9703

Hi Gordon,

I am glad you saw the same improvement I did. I have been amazed since I did the Shottkey mod on my 830S....The noise floor is definitely better and the 830S' white noise level doesn't give me a headache while listening with headphones now. I think after you make the diode swap, the lack of phase noise in the 830S' receiver lets you hear more signals.....The Shottkey diodes are a cheap fix.

73' Rick KC0HH
Lamar, Colorado

Gordon <n6wk@...> wrote: Today, I opened up my TS-830S and decided to do the Schottky Diode Mod
on the Product detector. I had already opened up the Audio by
replacing C-106 with a .0015 cap . I also had replaced the Band switch
Coupler with the ones from K4EAA.
I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
I then adjusted the voltage across the resistor with L-19 and L-20 to
600 Mv.
I then tuned up on 20 meters. I worked a station in Portugal and
Italy. They were strong and I received great reports. I then tuned
across 3XM6JR. He was weak but workable. I tried calling a few times
with the 830 barefoot, but was not able to break through the East
Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
to work him. To my surprise, I could NOT even copy him with the
TS-2000. I switched back to the 830 and there he was. Still weak, but
I could copy him, then back to the TS-2000 and he was too low in the
Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
My Conclusion is, This Mod on the 830 is a great thing. It seems to
lower the noise floor yet the response is Excellent.
I might now have to replace some diodes in the TS-2000.
I am impressed. I am now ready to sell this TS-830S (Gold Label) and
look for another one to repair. After all, Repairing these rigs is my
Hobby !

73,
Gordon
N6WK

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9704. 520 or 830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 07:55:28 UTC
From: n9wb
Topic: 9704 Message: 9704

One good thing about the 520, you already have it. It is a very good rig and if you fix it and later decide to get something else, it will be worth much more fixed. You also get an education.

So tell us all about it, what is wrong and lets see if we can't get to fixen!

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

9705. Re: [TS-520_820_530_830] Re: 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 08:12:51 UTC
From: n9wb
Topic: 9695 Message: 9705

Gordon:
Did you match the diodes or just choose them at random ?

N9WB Walt

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 7:58 PM
Subject: [TS-520_820_530_830] Re: 830 Diode Swap

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Yesterday I had time to swap out the Product detector Diodes on my
> TS-830 with some Schottky Diodes. I had already performed the Audio
> Mod by replacing C-106. After I replaced the diodes, I adjusted L-19
> and L-20 on my scope.
> So, Then I decided to tune across 20 meters. I came across a bit of a
> pile-up, so I took a listen to see what or who was there. It was
> 3XM6JR and he was weak, but copyable, so I gave him a call. I tried 3
> or 4 times , then decided that the 100 watts from the 830 was NOT
> going to break through the East Coast wall to work him. So, I fired up
> the TS-2000 and the Amplifier. I switched the antenna (7 element
> yagi) over to the 2000 and to my surprise, he was low in the noise
> and not workable. I then switched back to the 830 and there he was
> again, weak but workable. So It tells me that this little 830 hears
> much better then my TS-2000 . I never did get to work the 3XM6JR
> station, but with the 830 Barefoot I worked I5zss in Italy, then
> CT1EHI in Portugal, then, UN7DA in Kazakhstan on 20 metrs. I then
> switched over to 40 meters and my Vertical and worked LU/R1ANF in the
> south Shetland Islands, then HA5JI in Hungary and finally CO8ZXZ in
> Cuba. I received Great reports and when I asked I received "Great
> sounding Audio " reports also. Neither one of my Antennas is over 38
> feet off the ground. The beam at 38 feet and the Vertical at 20 feet.
> I'm pretty happy the way this little 830 turned out. Now, It's time to
> sell it and purchase another 830 to repair and make new again.
> 73,
> Gordon
> N6WK
>

Congrats Gordon,

I have been thinking about swapping out the diodes but this 830 hears
so well now I'm not sure I want to invest the time! Maybe some day.

73,
Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

9706. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 08:19:52 UTC
From: n9wb
Topic: 9693 Message: 9706

Which stand does your D-104 have. Is it amplified or un-amplified?
Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 6:58 PM
Subject: [TS-520_820_530_830] Best mic for 830s?

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

9707. Re: [TS-520_820_530_830] 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 10:39:50 UTC
From: n9wb
Topic: 9695 Message: 9707

You probably ought to sell the 2000 and hook up the amp to the 830. Hi. What an amazing rig!
Walt N9WB
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 7:49 PM
Subject: [TS-520_820_530_830] 830 Diode Swap

Yesterday I had time to swap out the Product detector Diodes on my TS-830 with some Schottky Diodes. I had already performed the Audio Mod by replacing C-106. After I replaced the diodes, I adjusted L-19 and L-20 on my scope.
So, Then I decided to tune across 20 meters. I came across a bit of a pile-up, so I took a listen to see what or who was there. It was 3XM6JR and he was weak, but copyable, so I gave him a call. I tried 3 or 4 times , then decided that the 100 watts from the 830 was NOT going to break through the East Coast wall to work him. So, I fired up the TS-2000 and the Amplifier. I switched the antenna (7 element yagi) over to the 2000 and to my surprise, he was low in the noise and not workable. I then switched back to the 830 and there he was again, weak but workable. So It tells me that this little 830 hears much better then my TS-2000 . I never did get to work the 3XM6JR station, but with the 830 Barefoot I worked I5zss in Italy, then CT1EHI in Portugal, then, UN7DA in Kazakhstan on 20 metrs. I then switched over to 40 meters and my Vertical and worked LU/R1ANF in the south Shetland Islands, then HA5JI in Hungary and finally CO8ZXZ in Cuba. I received Great reports and when I asked I received "Great sounding Audio " reports also. Neither one of my Antennas is over 38 feet off the ground. The beam at 38 feet and the Vertical at 20 feet. I'm pretty happy the way this little 830 turned out. Now, It's time to sell it and purchase another 830 to repair and make new again.
73,
Gordon
N6WK

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

9708. Question on my TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 11:13:45 UTC
From: Hector Perez-Diaz
Topic: 9708 Message: 9708

Good day to all folks. Traditionally, I am a CW operator; when I hit my straight key in this case without using the RIT, I see my dial that jumps from ej. 14.025 to 14.026.8. To avoid this, I am forced to use the RIT always. Any ideas on what could be the problem?

Thanks to all and may you have a nice day

NP4FW Luigi

9709. RE: [TS-520_820_530_830] Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 11:18:04 UTC
From: peter linke
Topic: 9693 Message: 9709

I run a Heil Gold Line through an EQ and get excellent reports on my transmitted audio all the time. AB8JN, Peter. Formerly VE3PSR

>From: "max_ve3tmt" <max_ve3tmt@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Best mic for 830s?
>Date: Sun, 01 Oct 2006 00:40:32 -0000
>
>--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
> >
> > Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
> > was bad will not drive the radio. I have a D104 that works, but I
> > understand I may have impedance matching problem. Looking on Heil web
> > site I see they have a kit for the D104.Or is it just better to get a
> > new mic?
>
>Chris,
>
>The 830 mic amp will work with either a low or high impedance load
>presented to it. Have you tried the D104 on the 830? It should sound
>pretty good as is unless you have a problem with the D104.
>
>Max VE3TMT
>
>
>

Express yourself - download free Windows Live Messenger themes!
http://clk.atdmt.com/MSN/go/msnnkwme0020000001msn/direct/01/?href=http://imagine-msn.com/themes/vibe/default.aspx?locale=en-us&source=hmtagline

9710. Re: [TS-520_820_530_830] Question on my TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 12:26:29 UTC
From: n9wb
Topic: 9708 Message: 9710

This is a normal offset so both you and the other station will hear a tone instead of a zero beat? Walt N9WB
----- Original Message -----
From: Hector Perez-Diaz
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 6:13 AM
Subject: [TS-520_820_530_830] Question on my TS-830

Good day to all folks. Traditionally, I am a CW operator; when I hit my straight key in this case without using the RIT, I see my dial that jumps from ej. 14.025 to 14.026.8. To avoid this, I am forced to use the RIT always. Any ideas on what could be the problem?

Thanks to all and may you have a nice day

NP4FW Luigi

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

9711. TS-520 audio system followed by some opinions and mods. N9WB

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 11:21:43 UTC
From: Walter A. Breining
Topic: 9711 Message: 9711

The following has been posted in the "Files" section of this group
under "Mods"

Below is a discussion of the TS-520 audio system followed by some
opinions and mods:

Note:
I was sent a list of mods for the TS-520. "Here are just a few mods
that I designed for my 520." These must be for another rig than the
TS-520. These will not work on the 520!

TS-520 transmit audio system.

Processor off:
Generator Board.
Transmit

The microphone audio enters on pin 1 of the microphone connector
where it is connected by a coaxial cable to the MIC terminal on the
Generator board.

From MIC, it is then coupled through C-14 (1 uf) to the base of pre-
amp Q-3.
From the collector of Q-3 the audio passes through C-17 (. 1 uf) to
the base of Q4.

High frequencies from the collector of Q-3 are bypassed to ground by
C-16 (.01 uf).

Q-4 is an emitter follower circuit. In such a circuit, the output is
taken from the emitter and is a relatively lower impedance output.
(Impedance around 2 K ohms).

From this emitter output passes through C-43 (1 uf) to D-18.

When the processor is off D-18 acts as a switch on the on position
and passes the audio to C-44 (3.3 uf).

This signal then is routed to the MV-1 terminal on the Generator
board to the mike gain control input via a coaxial cable.

From the mike gain control output, the audio signal returns to the
Generator board via a coaxial cable through terminal MV-2.

The audio signal then passes through C-37 to the base of Q-6. The
collector of Q-6 is directly coupled to the base of Q5 and the
collector output of Q5 passes through C-40 (10 uf) to Generator board
terminal MAO.

From MAO the signal passes through a coaxial cable to the mode switch. When the mode switch is in USB or LSB position, the audio signal is then routed via a coaxial cable to BM on the Generator Board. This feeds this audio signal into the Balanced modulator where the DSB signal is produced and later filtered to SSB on the IF board.

Processor on:

*When the processor is on, D-18 now acts as an open switch and no longer passes the audio signal to C-44.

Instead, audio passes through C-18 (.047 uf) to the drain circuit of FET Q-7. FET Q7 acts as a voltage controlled variable shunt resistor and shunts the audio level to ground by way of C-20 (100 uf) depending on the DC voltage applied to its gate.

This controlled audio signal is then applied to the very high impedance input provided by the gate of FET Q-8. Q-8 is a source follower and provides isolation between the processor control circuit Q-7 and the input of Q-9. The controlled audio from the source output of Q-8 passes through C-26 (.01 uf) to the base of Q-9.

The collector output of Q-9 is DC coupled to the base of Q-10. The collector output then feeds the controlled audio signal to VR-3 through C-30 (3.3 uf). The controlled audio from the output of VR-3 then passes through C-33 (3.3 uf) Through D-17 to MV-1 the input of the Mike gain control.

VR-3 provides a means to adjust the peak output of the controlled audio that goes to the mike gain control to match the audio with the processor off.

D-17 and D18 switch the input of the mike gain control between processed audio and unprocessed audio. D-18 connects the unprocessed audio to the mike gain control when the processor is off.
D-17 connects the processed audio to the mike gain control when the processor is on.

From this point the controlled audio follows the same path from the mike gain control into Q6, Q7, through the mode switch and into the balanced modulator in the same manner as the audio from the mike gain output does with the processor off.

Processor DC control system.

Audio is sampled from the collector output of Q-10 by way of C-31 (.47uf) and into buffer amplifier Q-11. Push-Pull audio is provided from Q-11 by getting audio from both the collector and emitter of Q-11. This is coupled by C-32 and C-33 (both 3.3 uf) into a bridge rectifier circuit consisting of D-13, D-14, D-15, and D-16.

The DC output of this rectifier connects to the base of Q-12. This DC voltage is dependent of the audio level at the collector of Q-10. This voltage is then amplified by Q-12 a DC emitter follower

amplifier.

The DC output of the emitter of this amplifier connects to the gate of FET Q-7. As described earlier, FET Q7 acts as a voltage controlled variable shunt resistor and shunts the audio level to ground by way of C-20 (100 uf) depending on the DC voltage applied to its gate from Q-12.

C-55 and R-37 provide a time constant that is very fast but not instantaneous. This allows the compressor to attack quickly but not so fast as to create distortion. C-35 and R-34 serve as a release time constant that provides a slower release time, depending upon the duration of the input peak.

Discussion and opinions:

I personally classify SSB transmit audio in one of three very general categories.

1. DX audio:
Many extreme DX enthusiasts find that a narrow, middy audio sound that is higher on the high end of their narrow bandwidth is favorable when operating DX. This cuts through pile-ups and noise quite well. For the rather short transmissions of most DX contacts, this is not particularly annoying and provides for clear transmissions of signal reports and other basic information. The Heil HC-4 element provides this sound and is popular with serious DX enthusiasts.

2. Rag chew audio:
This is the audio that most Amateurs wish to achieve. It is natural, clear, but yet has enough articulation to be well understood. Ideally it will have some lows but not booming bass and highs that extend to anywhere from 2400 Hz to 3000 Hz or so. The Heil HC-5 provides this kind of audio.

3. ESSB audio. This audio is absolutely beautiful when listened to on a high quality receiver. It has lows below 100 Hz and highs up to 3500 Hz and sometimes beyond. To achieve this, the Amateur must have a rig that generates its signal by Direct Digital Synthesis. These operators usually use a RF amplifier and several thousands of dollars of audio processing gear. The RF amplifier is necessary because this type of signal does not have a high RMS content. These operators pay particular care to be sure that their equipment and their amplifier has very low IM and harmonic distortion so their signal sounds very clean.

Since DX audio is much narrower than the stock TS-520 is capable of, modifications to the transmit audio is a non issue with DX audio

People perusing ESSB audio usually feed the audio output from their rack of processing gear directly into the balanced modulator. This makes modifications to the transmit audio circuits prior to the

balanced modulator a moot issue. There are many rigs much more suited to this endeavor than the TS-520.

So my discussion is going to be with regard to the pursuit of very good rag chew audio. This is what most people reading this are really seeking,
In articles, capacitor changes have been recommended for the TS-520. While some of these may be helpful, others extend the frequency response beyond that which the IF and filter are capable of and are of no use to most Amateurs.

I do believe that the following changes might be helpful.

Generator Board:

C-16 Change to .001. This capacitor shunts the collector of Q-3 the mike pre amp transistor to ground. This shunts higher frequency audio tones that are well within the radio's audio bandpass to ground. This change will make the transmitted audio have slightly more articulation and sound more open.

C-17 Change to a value of 1uf or 2.35 uf.
If a 1-uf non-polar capacitor is available use this.
If a non-polar capacitor is not available make one using two 4.7 uf capacitors. Connect the two negative leads together and use the remaining positive leads to connect where the original capacitor was connected. The two negative leads connect only to each other.
This capacitor couples the audio to the base of Q4, the second mike pre amp transistor. This change will keep this capacitor from reducing the low frequency response.

C-37 Change this value to 1 uf. A non-polar capacitor is not needed here. Place the + lead to the foil that connects to the base of Q-6. This capacitor couples the output of the mike gain control to the input (base) of Q6, the first driver for the balanced modulator.

Read thoroughly before making the next changes: I DO NOT RECOMMEND THIS NEXT CHANGE

There are also 2 changes that will increase the low frequency response of the processor circuit.
C-22 and C-26 can be changed to 1 uf. If a non-polar capacitor is not used, the + side should go to the Q-8 base and Q-9 base respectively.

With the original values (.01), when the processor is energized, the brightness and articulation of your audio will increase. I believe that it is best to leave the circuit this way.

Consider this:
When you turn the processor on is when you need more punch. An increase in brightness will be beneficial at this time.

So I would leave this alone. But I provided the information so you can decide.

There are some 1 uf capacitors that some people might suggest changing to higher values. I do not believe that changing these will make any difference unless you are running an audio rack. If you were running an audio rack, you would benefit more from feeding the balanced modulator directly than making these changes.

Receiver:
Generator board

The demodulated receive audio leaves the balanced detector (product detector) at the Det pin on the Generator board and is fed to the Det terminal on the AF unit board via a coaxial cable.

AF unit

The demodulated receive audio leaves the balanced detector (product detector) at the Det pin on the Generator board and is fed to the Det terminal on the AF unit board via a coaxial cable.

It then passes through C-14 (.47 uf) to the input (base) of Q5. Audio from the output (collector) of Q-5 passes through C-13 (.047 uF) through pin AV-1 to the input of the AF gain control via a coaxial cable.

From the output of the AF gain control, the receive audio passes back to the AF unit through AV-2 via a coaxial cable and then through L2 a RF Choke (3.3uh) and through C-1 (4.7 uf) to the input (base) of Q2. Q2 and complimentary transistors Q3 and Q4 comprise the audio output amplifier that provides the speaker and headphones with high level audio.

A word about receiver audio:

Except when receiving strong ESSB signals, we have to look at SSB receive audio differently than we would high fidelity audio. Unfortunately, our received H.F. SSB signals are accompanied by various noises. The wider that we open the receiver frequency response, the more noise that we will hear.

With some noises, such as static crashes, slightly extended high end will actually soften these sounds making them more tolerable even though you are hearing more of them. However, this same extended high frequency response will make adjacent frequency splatter less tolerable.

With the low frequency response extended, strong full signals sound more pleasant, but lightning crashes will be much more annoying.

So you must ponder what it is that you wish to achieve.

To increase the low frequency response:

Change C-13 (.047) to 1 uf. The + lead of C-13 should go toward the collector of Q-5 if the replacement is polarized.

Change C-14 (.47) to 1 uf. The + lead should go to R-16 (3.3K orange, orange, red). This resistor leads to the base of Q-5.

Change C-8 to as high of a value as you can up to 2200 uf. Be sure that the voltage is the same or greater than the original. Be VERY sure to have the + side of the junction of R-11 and R-12 as was the original.

For extended highs:

Change C-27 (.01) to .001.

Choice of speaker and headphones is important. I prefer a 6 or 8-inch speaker in a wooden open back baffle. Wooden speakers from the olde inexpensive stereos that had turntables in them often work. The Goodwill store, flea markets, and roadside shopping on trash day often yields bargains. A capacitor that is in series with the speaker can be switched in and out to turn the extended lows on and off. This can be located in the speaker.

Another word about radio modifications:

Do not feel like you have to do every modification that you hear about. There are two kinds of modifications.

Necessary modifications:

These correct serious factory production or design errors. Such is the case with the reversed wire connections on the MC-60 mikes.

Modifications for preferences:

These are unnecessary and are only done to make a rig match your preferences. The changes I have listed here fall into this category. Consider your level of competence before attempting any modifications. The TS-520 works great as is. The olde adage "if it ain't broke, don't fix it" is good advice.

This paper was in response to some inquiries about modifications to the TS-520 transmit and receive audio circuits. It is also useful in tracing and understanding these circuits.

I am not responsible for Murphy's law or any disasters. Modify at your own risk!

Vy 73, Walt N9WB

9712. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 11:37:42 UTC
From: Chris HEmbree
Topic: 9693 Message: 9712

un-amplified
Chris.

n9wb <n9wb@...> wrote: Which stand does your D-104 have. Is it amplified or un-amplified?
Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 6:58 PM
Subject: [TS-520_820_530_830] Best mic for 830s?

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

9713. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 13:15:00 UTC
From: Jim Stoneback
Topic: 9693 Message: 9713

Chris,

Using the MC-50 with my TS-830 requires that the mic gain be turned full clockwise. It appears to work just fine, though. If that's what you're seeing, you don't have to change mics.

73,
Jim K4AXF

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 4:19 AM
Subject: Re: [TS-520_820_530_830] Best mic for 830s?

Which stand does your D-104 have. Is it amplified or un-amplified?
Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 6:58 PM
Subject: [TS-520_820_530_830] Best mic for 830s?

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

9714. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 13:56:26 UTC
From: Hector (Luigi) Perez
Topic: 9693 Message: 9714

I have had very good results with a Shure 444D

Luigi

--- Jim Stoneback <jstonebk@...> wrote:

> Chris,
>
> Using the MC-50 with my TS-830 requires that the mic
> gain be turned full clockwise. It appears to work
> just fine, though. If that's what you're seeing, you
> don't have to change mics.
>
> 73,
> Jim K4AXF
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, October 01, 2006 4:19 AM
> Subject: Re: [TS-520_820_530_830] Best mic for
> 830s?
>
>
> Which stand does your D-104 have. Is it amplified
> or un-amplified?
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: w7cth
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 6:58 PM
> Subject: [TS-520_820_530_830] Best mic for 830s?
>
> Hello, I just picked up a Kenwood 830s this last
> weekend. The mc-50
> was bad will not drive the radio. I have a D104
> that works, but I
> understand I may have impedance matching problem.
> Looking on Heil web
> site I see they have a kit for the D104.Or is it
> just better to get a
> new mic?
>
> I do like my D104 it looks cool.

> Chris W7CTH
>
>
>

>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 -
> Release Date: 9/29/06
>
> [Non-text portions of this message have been
> removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 -
> Release Date: 9/29/2006
>
>
> [Non-text portions of this message have been
> removed]
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

9715. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 15:21:22 UTC
From: John Harp
Topic: 9693 Message: 9715

Excuse me but I have the MC-50 and the 830. My mi gain is turned up just enough for the VOX to catch and Delay just enough to drop it when I'm done. The processor ITurn on not even enough to make the meter swing the 20 db like the book says. I don't push it that far since I don't need it.

Now I just found this. Thought I'd stop and check it out. Respectfully. Thanks.

Jim Stoneback <jstonebk@...> wrote:
Chris,

Using the MC-50 with my TS-830 requires that the mic gain be turned full clockwise. It appears to work just fine, though. If that's what you're seeing, you don't have to change mics.

73,
Jim K4AXF

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 4:19 AM
Subject: Re: [TS-520_820_530_830] Best mic for 830s?

Which stand does your D-104 have. Is it amplified or un-amplified?
Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 6:58 PM
Subject: [TS-520_820_530_830] Best mic for 830s?

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9716. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 16:02:17 UTC
From: John Harp
Topic: 9693 Message: 9716

Hi Chris,

I have a MC-50 and I have heard that two good mics that work good on the Kenwood Hybrids is the D-104 as you have and the Shue 444. Someone else reported that they use a Heil Goldline thru an equalizer. I use the standard MC-50 without the stand. I just plug it directly to the jack of my 830. Mine is starting to go intermittent. I have considered the possibility of trying to use Astatic D-104 in the future. I know of someone who has used one on thier 520 some time back.

I inqired to that person about it, having been a ham being my elmer and he told me with the older rigs like these, you need to keep the impedance up higher.

Now a D-104 mic as I've seen can be wired numerous ways and can be purchased rather easily since there is still many available for a reasonable price.

Any of the three should and as I've heard on the air and by visitation to various operator positions, work well.

I like you like the lollipop design, however when the operating environment gets cold you may find it a little cold on your hands to handle. My previous shacks have been operated under such conditions in the past. Something to think about whichever mic you choose.

See you on the air.

w7cth <w7cth@...> wrote:
Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9717. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 16:15:17 UTC
From: Gordon
Topic: 9685 Message: 9717

Good fix Jim.
We are all here to help each other with tips and Advice.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback"
<jstonebk@...> wrote:
>
> At Gordon's suggestion (below), I checked R12 & R13 and found that
R13 was open. Replacing that resistor restored proper vox/qsk-cw
operation. My 830 is whole again! I'm sure glad the Kenwood hybrids
yahoogroup was there when I needed it!
>
> 73 and thanks to all,
>
> Jim K4AXF
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, September 29, 2006 7:31 PM
> Subject: [TS-520_820_530_830] Re: TS830 Problem
>
>
> Jim,
> Check the resistors R12 and R13 (100k) on the rectifier board.
> One and/or both could be open or have increased in value.
>
> What are Voltage readings on Q1 on the AF board ?
>
> Gordon
> 'N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback"
> <jstonebk@> wrote:
> >
> > One last try before I ship it to a repair shop. Has anyone fixed
this
> > problem before?
> >
> > My TS830s has no sidetone, thus no semi-QSK CW.
> >
> > With MON switch on, key depressed, there is no sine wave at TP1, no
> qsk, no

> > CW output.
> >
> > I injected a tone at TP1 and get sidetone, semi-qsk action and CW
> output.
> >
> > I checked all the components in the sidetone circuit with no bad
> components
> > found; replaced transistor and zener anyway, to no avail. My
> confidence is
> > shaken. Help!
> >
> > 73,
> >
> > Jim Stoneback
> > K4AXF
> > http://www.qsl.net/k4axf
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
9/29/2006
>
>
> [Non-text portions of this message have been removed]
>

9718. Re: [TS-520_820_530_830] Peripheral equipment for the 520s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 16:18:42 UTC
From: John Harp
Topic: 9664 Message: 9718

Well you are correct that not all accessories may not wire directly to the 520 and function as you would with the 830. But to get a feel for the radio and its differences to operate by comparison is what I was referring to. My apologies to the misinterpretation otherwise.

As far as the radio going that far out in price. I'd wait until I found one going a bit cheaper. For example: My second 830 I bought from the daughter of a ham that was no longer in good health enough to opertate his CW. His daughter (then becoming POA) recognized his financial need and that he could no longer use and enjoy his station then posted to e-bay his gear one by one. I bought his radio as the high bidder for 325 US dollars, by winning bid. I talked with her via e-mail a little.

I watched for a while to find a good deal as my first one was off the air for about a year. It takes time to find a good deal on these radios. Be patient and watch and bid carefully for the radio you desire.

KE5EOT <ke5eot@...> wrote:
Remember, the accessories for the 520 S and SE series may not work on
the plain 520. The S and SE have a lot more connectors on the back.

Randy (KE5EOT) -.- . ... --- -

Jody Mills wrote:
>
>
>
> Thanks for the replies on my previous question regarding the 520 vs. the
> 830 series. Due to the fact that the 830 I was looking at on ebay is
> now up to $500 and will likely sell for at least $600 at auction end, it
> is no longer an economical purchase for me. Just for price comparison,
> a brand new Icom IC-718 "beginner" rig goes for $600 at HRO! I
> originally purchased the 520 on ebay for $120 (knowing it was
> non-working) and figure I'll pay around $300 for refurbishing, which is
> still considerably less than what I would pay for a brand new
> transceiver of any brand.
>
> Now I am interested in finding out what peripheral equipment Kenwood
> manufactured for use with the 520 series of transceiver and their model
> numbers. I'll need to know this when I go searching on ebay again...
>
> Thanks again!
>
> Jody
>
> [Non-text portions of this message have been removed]
>
>

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9719. Re: [TS-520_820_530_830] TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 16:47:13 UTC
From: John Harp
Topic: 9685 Message: 9719

Jim, this may sound a little silly comming from me another 830 owner, but have you gone thru and clened the 830 recently. Many times that helps resolve the problems for me in both my 830's in the past. It may be worth a try, before you send it away. I find a good cleaning has helped me see the interior and know it well on a routine basis. You may already have and I just don't know it. Just a suggestion.

Jim Stoneback <jstonebk@...> wrote: One last try before I ship it to a repair shop. Has anyone fixed this
problem before?

My TS830s has no sidetone, thus no semi-QSK CW.

With MON switch on, key depressed, there is no sine wave at TP1, no qsk, no
CW output.

I injected a tone at TP1 and get sidetone, semi-qsk action and CW output.

I checked all the components in the sidetone circuit with no bad components
found; replaced transistor and zener anyway, to no avail. My confidence is
shaken. Help!

73,

Jim Stoneback
K4AXF
http://www.qsl.net/k4axf

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9720. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 17:17:02 UTC
From: Gordon
Topic: 9691 Message: 9720

Hi Art,
I used my scope to adjust it to a minimum. I found that the setting
was still at the minimum spot even after changing the PD Diodes.
Trust me, it is a VERY low voltage. I had to use a 1X probe to be able
to even read it well. My 10X probe would not show enough deflection.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Art" <wb4mnk@...> wrote:
>
> Hi Gordon, Thanks for your reply. The VTVM I am using has a 1.5 volt
range so I would think I would see some indication on the meter but
nothing. Maybe like you say the VTVM does not go low enough. I am not
sure but we changed out the diodes in the product detector and
balanced modulator also and was wondering if that had anything to do
with not getting an indication. We also put a .001 capacitor in the
C106 position and added the 100 resistor. Any other ideas?
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 8:36 PM
> Subject: [TS-520_820_530_830] Re: Carrier Balance
>
>
> Art,
> How low of a scale are you using on your VTVM ?
> It should be a very low reading, and you are tuning for a minimum..
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@> wrote:
> >
> > Hi to All, I am working on a TS-830S and I am at the alignment
of the
> > carrier balance adjustment. In my manual it is item # 14. #14
Carrier
> > balance adjustment. IF shift centered, RF gain fully ccw, rf
vtvm, rear
> > panel, IF out #2, TC1 minimun. When I try this I get no
indication no

> > matter where TC1 is set. Anyone have an idea what I am doing wrong.
> > Thanks in advance.
> >
> > 73
> > Art
> > WB4MNK
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
9/29/2006
>
>
> [Non-text portions of this message have been removed]
>

9721. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 17:25:58 UTC
From: Gordon
Topic: 9703 Message: 9721

Thanks Rick,
I also appreciate you selling me the Diodes.
Walt was wondering if they were matched. I didn't check them, I just installed them and checked the Carrier adjustment. I had to tweak L19 and L20 just a bit but the Carrier balance was still right on. I am now debating whether to go ahead and swap out the Balanced Modulator diodes as well.
Were the Diodes matched ? They sure do work nice in the 830.

Thanks again,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> I am glad you saw the same improvement I did. I have been amazed since I did the Shottkey mod on my 830S....The noise floor is definitely better and the 830S' white noise level doesn't give me a headache while listening with headphones now. I think after you make the diode swap, the lack of phase noise in the 830S' receiver lets you hear more signals.....The Shottkey diodes are a cheap fix.
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
>
> Gordon <n6wk@...> wrote: Today, I opened up my TS-830S and decided to do the Schottky Diode Mod
> on the Product detector. I had already opened up the Audio by
> replacing C-106 with a .0015 cap . I also had replaced the Band switch
> Coupler with the ones from K4EAA.
> I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
> I then adjusted the voltage across the resistor with L-19 and L-20 to
> 600 Mv.
> I then tuned up on 20 meters. I worked a station in Portugal and
> Italy. They were strong and I received great reports. I then tuned
> across 3XM6JR. He was weak but workable. I tried calling a few times
> with the 830 barefoot, but was not able to break through the East
> Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
> to work him. To my surprise, I could NOT even copy him with the
> TS-2000. I switched back to the 830 and there he was. Still weak, but

> I could copy him, then back to the TS-2000 and he was too low in the
> Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> My Conclusion is, This Mod on the 830 is a great thing. It seems to
> lower the noise floor yet the response is Excellent.
> I might now have to replace some diodes in the TS-2000.
> I am impressed. I am now ready to sell this TS-830S (Gold Label) and
> look for another one to repair. After all, Repairing these rigs is my
> Hobby !
>
> 73,
> Gordon
> N6WK
>
>
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

9722. Re: 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 17:30:31 UTC
From: Gordon
Topic: 9695 Message: 9722

Yea, but I like the 6 meters, 2 meters and the 70 CM bands.. hi hi..
My next comparison will be between the 830 and my 850, since tge 850
is fully loaded with filters.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> You probably ought to sell the 2000 and hook up the amp to the 830.
Hi. What an amazing rig!
> Walt N9WB
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 7:49 PM
> Subject: [TS-520_820_530_830] 830 Diode Swap
>
>
> Yesterday I had time to swap out the Product detector Diodes on my
> TS-830 with some Schottky Diodes. I had already performed the Audio
> Mod by replacing C-106. After I replaced the diodes, I adjusted L-19
> and L-20 on my scope.
> So, Then I decided to tune across 20 meters. I came across a bit of a
> pile-up, so I took a listen to see what or who was there. It was
> 3XM6JR and he was weak, but copyable, so I gave him a call. I tried 3
> or 4 times , then decided that the 100 watts from the 830 was NOT
> going to break through the East Coast wall to work him. So, I fired up
> the TS-2000 and the Amplifier. I switched the antenna (7 element
> yagi) over to the 2000 and to my surprise, he was low in the noise
> and not workable. I then switched back to the 830 and there he was
> again, weak but workable. So It tells me that this little 830 hears
> much better then my TS-2000 . I never did get to work the 3XM6JR
> station, but with the 830 Barefoot I worked I5zss in Italy, then
> CT1EHI in Portugal, then, UN7DA in Kazakhstan on 20 metrs. I then
> switched over to 40 meters and my Vertical and worked LU/R1ANF in the
> south Shetland Islands, then HA5JI in Hungary and finally CO8ZXZ in
> Cuba. I received Great reports and when I asked I received "Great
> sounding Audio " reports also. Neither one of my Antennas is over 38
> feet off the ground. The beam at 38 feet and the Vertical at 20 feet.
> I'm pretty happy the way this little 830 turned out. Now, It's time to
> sell it and purchase another 830 to repair and make new again.
> 73,
> Gordon
> N6WK
>

>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
9/29/06
>
>
> [Non-text portions of this message have been removed]
>

9723. Re: 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 17:28:35 UTC
From: Gordon
Topic: 9695 Message: 9723

Walt, I purchased them from Rick (KC0HH). He had some extras from his
purchase order.
I'll ask him.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Gordon:
> Did you match the diodes or just choose them at random ?
>
> N9WB Walt
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 7:58 PM
> Subject: [TS-520_820_530_830] Re: 830 Diode Swap
>
>
> --- In TS-520_820_530_830@...m, "Gordon" <n6wk@> wrote:
> >
> > Yesterday I had time to swap out the Product detector Diodes on my
> > TS-830 with some Schottky Diodes.

snip

9724. Re: [TS-520_820_530_830] Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 17:51:38 UTC
From: Art
Topic: 9691 Message: 9724

Gordon, Thank you for the information. I will just leave it as is and continue on. Again thank you for the help.

73
Art
WB4MNK
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 1:17 PM
Subject: [TS-520_820_530_830] Re: Carrier Balance

Hi Art,
I used my scope to adjust it to a minimum. I found that the setting
was still at the minimum spot even after changing the PD Diodes.
Trust me, it is a VERY low voltage. I had to use a 1X probe to be able
to even read it well. My 10X probe would not show enough deflection.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Art" <wb4mnk@...> wrote:
>
> Hi Gordon, Thanks for your reply. The VTVM I am using has a 1.5 volt
range so I would think I would see some indication on the meter but
nothing. Maybe like you say the VTVM does not go low enough. I am not
sure but we changed out the diodes in the product detector and
balanced modulator also and was wondering if that had anything to do
with not getting an indication. We also put a .001 capacitor in the
C106 position and added the 100 resistor. Any other ideas?
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 8:36 PM
> Subject: [TS-520_820_530_830] Re: Carrier Balance
>
>
> Art,
> How low of a scale are you using on your VTVM ?
> It should be a very low reading, and you are tuning for a minimum..
>
> Gordon
> N6WK

>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@> wrote:
> >
> > Hi to All, I am working on a TS-830S and I am at the alignment
of the
> > carrier balance adjustment. In my manual it is item # 14. #14
Carrier
> > balance adjustment. IF shift centered, RF gain fully ccw, rf
vtvm, rear
> > panel, IF out #2, TC1 minimun. When I try this I get no
indication no
> > matter where TC1 is set. Anyone have an idea what I am doing wrong.
> > Thanks in advance.
> >
> > 73
> > Art
> > WB4MNK
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
9/29/2006
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

9725. Re: Question on my TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 17:49:39 UTC
From: Gordon
Topic: 9708 Message: 9725

Good Morning Luigi,
On the 830, the frequency should change 800HZ when you transmit.
This is so you and the staion you are working are Zero Beat (or close)
Now if yours is changing 1.8 Khz, then something is Wrong.
Is this something that just started, or have you been operating this
way all along ?

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Hector Perez-Diaz"
<capecuatro@...> wrote:
>
> Good day to all folks. Traditionally, I am a CW operator; when I hit my
> straight key in this case without using the RIT, I see my dial that
> jumps from ej. 14.025 to 14.026.8. To avoid this, I am forced to use
> the RIT always. Any ideas on what could be the problem?
>
> Thanks to all and may you have a nice day
>
> NP4FW Luigi
>

9726. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 18:04:31 UTC
From: Gordon
Topic: 9691 Message: 9726

That's Correct Rick. Also, you could tune up at 14.175 into a dummy load for full output, then Reduce the mic gain to ZERO, turn the RF sensitivity on the back all the way up, place the rig in LSB and key the rig if the carrier is unbalanced, it should show a reading on the RF meter in the rig.If it does, adjust TC3 and VR4 for minimum, then switch to USB and do the same thing until you have both USB and LSB at the minimum spot.
A scope makes it so much easier to do however.

73,
Gordon

-- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Art,
>
> You can use also the ALC meter in your 830S to check your carrier balance. With mic gain set to zero, any deflection will indicate carrier output in SSB mode. Do you have another receiver you can use? You can listen to your signal on another receiver and minimize carrier that way.
>
> 73' Rick KC0HH
>
>
> Art <wb4mnk@...> wrote: Hi Gordon,
Thanks for your reply. The VTVM I am using has a 1.5 volt range so I would think I would see some indication on the meter but nothing. Maybe like you say the VTVM does not go low enough. I am not sure but we changed out the diodes in the product detector and balanced modulator also and was wondering if that had anything to do with not getting an indication. We also put a .001 capacitor in the C106 position and added the 100 resistor. Any other ideas?
>
> 73
> Art
> WB4MNK
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 8:36 PM
> Subject: [TS-520_820_530_830] Re: Carrier Balance
>
> Art,
> How low of a scale are you using on your VTVM ?

> It should be a very low reading, and you are tuning for a minimum..
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@> wrote:
> >
> > Hi to All, I am working on a TS-830S and I am at the alignment
of the
> > carrier balance adjustment. In my manual it is item # 14. #14
Carrier
> > balance adjustment. IF shift centered, RF gain fully ccw, rf
vtvm, rear
> > panel, IF out #2, TC1 minimun. When I try this I get no
indication no
> > matter where TC1 is set. Anyone have an idea what I am doing
wrong.
> > Thanks in advance.
> >
> > 73
> > Art
> > WB4MNK
> >
>
>
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

9727. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 18:13:39 UTC
From: Chris HEmbree
Topic: 9693 Message: 9727

I took the MC-50 out of the stand and it looks like it is working much better.
Maybe ok after all , I will change C106 this week. If I can locate one.

Thanks
Chris..

John Harp <ka3dpw@...> wrote: Hi Chris,

I have a MC-50 and I have heard that two good mics that work good on the Kenwood Hybrids is the D-104 as you have and the Shue 444. Someone else reported that they use a Heil Goldline thru an equalizer. I use the standard MC-50 without the stand. I just plug it directly to the jack of my 830. Mine is starting to go intermittent. I have considered the possibility of trying to use Astatic D-104 in the future. I know of someone who has used one on thier 520 some time back.

I inqired to that person about it, having been a ham being my elmer and he told me with the older rigs like these, you need to keep the impedance up higher.

Now a D-104 mic as I've seen can be wired numerous ways and can be purchased rather easily since there is still many available for a reasonable price.

Any of the three should and as I've heard on the air and by visitation to various operator positions, work well.

I like you like the lollipop design, however when the operating environment gets cold you may find it a little cold on your hands to handle. My previous shacks have been operated under such conditions in the past. Something to think about whichever mic you choose.

See you on the air.

w7cth <w7cth@...> wrote:
Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9728. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 19:40:36 UTC
From: Peter A Markavage
Topic: 9693 Message: 9728

Are you running the MC-50 mike on the high or low impedance position
(i.e. orientation of cable into the back end of the mike housing)?

Pete, wa2cwa

On Sun, 1 Oct 2006 09:15:00 -0400 "Jim Stoneback" <jstonebk@...>
writes:
> Chris,
>
> Using the MC-50 with my TS-830 requires that the mic gain be turned
> full clockwise. It appears to work just fine, though. If that's
> what you're seeing, you don't have to change mics.
>
> 73,
> Jim K4AXF
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, October 01, 2006 4:19 AM
> Subject: Re: [TS-520_820_530_830] Best mic for 830s?
>
>
> Which stand does your D-104 have. Is it amplified or
> un-amplified?
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: w7cth
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 6:58 PM
> Subject: [TS-520_820_530_830] Best mic for 830s?
>
> Hello, I just picked up a Kenwood 830s this last weekend. The
> mc-50
> was bad will not drive the radio. I have a D104 that works, but I
> understand I may have impedance matching problem. Looking on Heil
> web
> site I see they have a kit for the D104.Or is it just better to
> get a
> new mic?
>
> I do like my D104 it looks cool.
> Chris W7CTH

9729. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 19:57:31 UTC
From: Rick May
Topic: 9703 Message: 9729

Hi Gordon,

When I ordered them, I stipulated to the guy on the phone I wanted 1% tolerance if he had them. I had wanted 1N6263 diodes as listed in AG6K's article, but he told me the 1N5711's were very good...and had a higher voltage rating. He was right ...The junction resistance and capacitance differences are nill. I used a B&K 810C and a Fluke 77 which are supposed to be accurate to .5% (that is 'point' 5%) so the diodes are matched close enough for our use. The only problem ordering them is dealing with the minimum order most electronic sellers have. You probably won't need 25 or 50 of them.

73' Rick KC0HH

Gordon <n6wk@...> wrote: Thanks Rick,
I also appreciate you selling me the Diodes.
Walt was wondering if they were matched. I didn't check them, I just installed them and checked the Carrier adjustment. I had to tweak L19 and L20 just a bit but the Carrier balance was still right on. I am now debating whether to go ahead and swap out the Balanced Modulator diodes as well.
Were the Diodes matched ? They sure do work nice in the 830.

Thanks again,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> I am glad you saw the same improvement I did. I have been amazed since I did the Shottkey mod on my 830S....The noise floor is definitely better and the 830S' white noise level doesn't give me a headache while listening with headphones now. I think after you make the diode swap, the lack of phase noise in the 830S' receiver lets you hear more signals.....The Shottkey diodes are a cheap fix.
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
>
> Gordon <n6wk@...> wrote: Today, I opened up my TS-830S and decided to do the Schottky Diode Mod
> on the Product detector. I had already opened up the Audio by
> replacing C-106 with a .0015 cap . I also had replaced the Band switch

> Coupler with the ones from K4EAA.
> I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
> I then adjusted the voltage across the resistor with L-19 and L-20 to
> 600 Mv.
> I then tuned up on 20 meters. I worked a station in Portugal and
> Italy. They were strong and I received great reports. I then tuned
> across 3XM6JR. He was weak but workable. I tried calling a few times
> with the 830 barefoot, but was not able to break through the East
> Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
> to work him. To my surprise, I could NOT even copy him with the
> TS-2000. I switched back to the 830 and there he was. Still weak, but
> I could copy him, then back to the TS-2000 and he was too low in the
> Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> My Conclusion is, This Mod on the 830 is a great thing. It seems to
> lower the noise floor yet the response is Excellent.
> I might now have to replace some diodes in the TS-2000.
> I am impressed. I am now ready to sell this TS-830S (Gold Label) and
> look for another one to repair. After all, Repairing these rigs is my
> Hobby !
>
> 73,
> Gordon
> N6WK
>
>
>
>
>
>
>
>
> ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

9730. Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 20:07:27 UTC
From: wb4mnk
Topic: 9730 Message: 9730

Hi everyone, In my instruction manual for the TS-830S says to
neutralize at 28.500. Now in the service manual it says to use 28.800.
My question is which is correct?

73
Art
WB4MNK

9731. Re: Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 20:27:14 UTC
From: Gordon
Topic: 9730 Message: 9731

Art,
I always use 28.800 and have had NO problems using that frequency.
You are correct, the user manual and the service manual do differ on that.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi everyone, In my instruction manual for the TS-830S says to
> neutralize at 28.500. Now in the service manual it says to use 28.800.
> My question is which is correct?
>
> 73
> Art
> WB4MNK
>

9732. Re: [TS-520_820_530_830] Re: Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 20:47:36 UTC
From: Art
Topic: 9730 Message: 9732

Gordon, Thanks for the information. I will use the 28.800 also.

73
Art
WB4MNK
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 4:27 PM
Subject: [TS-520_820_530_830] Re: Neutralization

Art,
I always use 28.800 and have had NO problems using that frequency.
You are correct, the user manual and the service manual do differ on that.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi everyone, In my instruction manual for the TS-830S says to
> neutralize at 28.500. Now in the service manual it says to use 28.800.
> My question is which is correct?
>
> 73
> Art
> WB4MNK
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

9733. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 21:01:53 UTC
From: w5rkl
Topic: 9685 Message: 9733

I suspect the problem is in the sidetone oscillator keying circuit or the sidetone oscillator itself.

My recommendations are to use an o'scope. Ohm meters can't tell whether a capacitor is good or not. An ohm meter usually can only detect a shorted capacitor. Ohm meters can not provide sufficient voltage to show capacitor leakage. There are, however, DVM's that can tell the capacitance value but the capacitor must be out of the circuit. I don't trust them when the capacitor is in the circuit, too many other components in the circuit that can contribute to confusion with the reading.

Checking transistors in a circuit is difficult. Normally, for example, a PNP transistor will have a more positive voltage on the collector when it is not conducting but a much less positive voltage when it is conducting. The opposite voltage polarity is true with an NPN transistor. The arrow on the component symbol determines the type of transistor, PNP or NPN.

The base biasing circuit should show a change with keying. If it does but the collector voltage remains unchanged, then more than likely the transistor is bad. This can be seen very easily with an o'scope.

Another helpful hint is to understand how the circuit works before attempting to troubleshoot. Most Kenwood manuals have a section that discribes the circuit operation which may point you in the right direction.

I am, however, curious about the TP1 audio injection you are doing. Maybe you could provide a bit more information. Also some additional information outlining the steps you are taking to determine failed components etc. We're all here to help.

If I can further assist you, feel free to drop me an email.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Jim, this may sound a little silly comming from me another 830 owner, but have you gone thru and clened the 830 recently. Many times that helps resolve the problems for me in both my 830's in the past. It may be worth a try, before you send it away. I find a good cleaning has helped me see the interior and know it well on a routine basis.

You may already have and I just don't know it. Just a suggestion.
>
> Jim Stoneback <jstonebk@...> wrote: One last try before I
ship it to a repair shop. Has anyone fixed this
> problem before?
>
> My TS830s has no sidetone, thus no semi-QSK CW.
>
> With MON switch on, key depressed, there is no sine wave at TP1, no
qsk, no
> CW output.
>
> I injected a tone at TP1 and get sidetone, semi-qsk action and CW
output.
>
> I checked all the components in the sidetone circuit with no bad
components
> found; replaced transistor and zener anyway, to no avail. My
confidence is
> shaken. Help!
>
> 73,
>
> Jim Stoneback
> K4AXF
> http://www.qsl.net/k4axf
>
>
>
>
>
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>

9734. Re: [TS-520_820_530_830] Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 21:32:40 UTC
From: John Harp
Topic: 9730 Message: 9734

I have neutralized my 830 at 28.5 and had good success. In fact I've done it several times with my first 830. Try it and if it doesn't work well then neutralize again.

wb4mnk <wb4mnk@...> wrote: Hi everyone, In my instruction manual for the TS-830S says to neutralize at 28.500. Now in the service manual it says to use 28.800.
My question is which is correct?

73
Art
WB4MNK

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9735. Re: [TS-520_820_530_830] VFO 230 vs 240 for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-01 23:05:41 UTC
From: John Harp
Topic: 9650 Message: 9735

To be honest with you Kieth I found the performance of the VFO- 230 to work good. The noise you refered to hasn't been a problem to me.

I watched e-bay last year for sometime bidding carefully on both. The 230 I got highest bid on first.So far it's needed to be turned off now and again to reset it and there is one LED out on it. But other than that it's been just fine.

I must admit, I like having the 5 memories and being able to program a few standby favorates. The split transcieve is good on both 230 and 240. I found as my sight got worse the digital display is a help too. Sometimes I keep one frequency on the 830 while I wander the VFO along.

They say the Vfo's rate of change of frequency can be altered. I have not looked into it yet as I have not had time to find out if it would be worth it.

You asked for my opinion as also others. That's my experience with it.

"Darwin, Keith" <keith.darwin@...> wrote:

I've assumed the VF0 230 would degrade RX performance in the 830s since
it is a synthesized VFO and would create problems with synthesizer noise
that the regular VFO doesn't create. If I'm right, won't the VFO 240 be
a better choice for top-notch receiver performance ?

What's the general consensus about which VFO to use with the 830s?
There are clearly a lot more 230s than 240s.

- Keith KD1E -

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9736. Re: 830 Diode Swap

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 00:46:10 UTC
From: Ellen R
Topic: 9695 Message: 9736

I know what you mean Gordon. That's why I have the FT-897D! I love doing the VHF/UHF weak signal stuff.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Yea, but I like the 6 meters, 2 meters and the 70 CM bands.. hi hi..
> My next comparison will be between the 830 and my 850, since tge 850
> is fully loaded with filters.
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > You probably ought to sell the 2000 and hook up the amp to the
830.
> Hi. What an amazing rig!
> > Walt N9WB
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, September 30, 2006 7:49 PM
> > Subject: [TS-520_820_530_830] 830 Diode Swap
> >
> >
> > Yesterday I had time to swap out the Product detector Diodes on
my
> > TS-830 with some Schottky Diodes. I had already performed the
Audio
> > Mod by replacing C-106. After I replaced the diodes, I adjusted
L-19
> > and L-20 on my scope.
> > So, Then I decided to tune across 20 meters. I came across a
bit of a
> > pile-up, so I took a listen to see what or who was there. It was
> > 3XM6JR and he was weak, but copyable, so I gave him a call. I
tried 3
> > or 4 times , then decided that the 100 watts from the 830 was
NOT
> > going to break through the East Coast wall to work him. So, I
fired up
> > the TS-2000 and the Amplifier. I switched the antenna (7
element

> > yagi) over to the 2000 and to my surprise, he was low in the
noise
> > and not workable. I then switched back to the 830 and there he
was
> > again, weak but workable. So It tells me that this little 830
hears
> > much better then my TS-2000 . I never did get to work the 3XM6JR
> > station, but with the 830 Barefoot I worked I5zss in Italy, then
> > CT1EHI in Portugal, then, UN7DA in Kazakhstan on 20 metrs. I
then
> > switched over to 40 meters and my Vertical and worked LU/R1ANF
in the
> > south Shetland Islands, then HA5JI in Hungary and finally
CO8ZXZ in
> > Cuba. I received Great reports and when I asked I
received "Great
> > sounding Audio " reports also. Neither one of my Antennas is
over 38
> > feet off the ground. The beam at 38 feet and the Vertical at 20
feet.
> > I'm pretty happy the way this little 830 turned out. Now, It's
time to
> > sell it and purchase another 830 to repair and make new again.
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> >
> > --

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
> 9/29/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

9737. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 00:50:25 UTC
From: Chris HEmbree
Topic: 9693 Message: 9737

THANK YOU!!
I see how this works now. This saved me money from buying a new mic.
Chris..

Peter A Markavage <pmarkavage@...> wrote: Are you running the MC-50 mike on the high or low impedance position
(i.e. orientation of cable into the back end of the mike housing)?

Pete, wa2cwa

On Sun, 1 Oct 2006 09:15:00 -0400 "Jim Stoneback" <jstonebk@...>
writes:
> Chris,
>
> Using the MC-50 with my TS-830 requires that the mic gain be turned
> full clockwise. It appears to work just fine, though. If that's
> what you're seeing, you don't have to change mics.
>
> 73,
> Jim K4AXF
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, October 01, 2006 4:19 AM
> Subject: Re: [TS-520_820_530_830] Best mic for 830s?
>
>
> Which stand does your D-104 have. Is it amplified or
> un-amplified?
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: w7cth
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 6:58 PM
> Subject: [TS-520_820_530_830] Best mic for 830s?
>
> Hello, I just picked up a Kenwood 830s this last weekend. The
> mc-50
> was bad will not drive the radio. I have a D104 that works, but I
> understand I may have impedance matching problem. Looking on Heil
> web
> site I see they have a kit for the D104.Or is it just better to
> get a

> new mic?
>
> I do like my D104 it looks cool.
> Chris W7CTH

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9738. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 01:24:07 UTC
From: Clif
Topic: 9691 Message: 9738

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>

They are setting RX carrier balance, it is different operation for the
TX side. Different caps and all.

Clif

9739. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 07:34:50 UTC
From: n9wb
Topic: 9693 Message: 9739

Jim:
Be sure it is set for High Impedance. If you do not know how, write me back. Walt N9WB

----- Original Message -----
From: Jim Stoneback
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 8:15 AM
Subject: Re: [TS-520_820_530_830] Best mic for 830s?

Chris,

Using the MC-50 with my TS-830 requires that the mic gain be turned full clockwise. It appears to work just fine, though. If that's what you're seeing, you don't have to change mics.

73,
Jim K4AXF

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 4:19 AM
Subject: Re: [TS-520_820_530_830] Best mic for 830s?

Which stand does your D-104 have. Is it amplified or un-amplified?
Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 6:58 PM
Subject: [TS-520_820_530_830] Best mic for 830s?

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

9740. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 07:27:17 UTC
From: Peter A Markavage
Topic: 9693 Message: 9740

Yep, unless you have the document for the MC-50 there's no way to tell
it's both a high and low impedance type mike. So, if you're running a
MC-50, and you have to turn the mike gain up most of the way on your rig,
unscrew the back end of the mike connector, turn it 180 degrees, and
screw it back in. This assumes that the mike cartridge and/or the
internal mike wiring and/or the mike cable do not have a problem.

Pete, wa2cwa

On Sun, 1 Oct 2006 17:50:25 -0700 (PDT) Chris HEmbree <w7cth@...>
writes:
> THANK YOU!!
> I see how this works now. This saved me money from buying a new
> mic.
> Chris..
>
>
> Peter A Markavage <pmarkavage@...> wrote:
> Are you running the MC-50 mike on the high or low
> impedance position
> (i.e. orientation of cable into the back end of the mike housing)?
>
>
> Pete, wa2cwa
>
> On Sun, 1 Oct 2006 09:15:00 -0400 "Jim Stoneback"
> <jstonebk@...>
> writes:
> > Chris,
> >
> > Using the MC-50 with my TS-830 requires that the mic gain be
> turned
> > full clockwise. It appears to work just fine, though. If that's
>
> > what you're seeing, you don't have to change mics.
> >
> > 73,
> > Jim K4AXF
> >
> >
> > ----- Original Message -----
> > From: n9wb
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, October 01, 2006 4:19 AM
> > Subject: Re: [TS-520_820_530_830] Best mic for 830s?

> >
> >
> > Which stand does your D-104 have. Is it amplified or
> > un-amplified?
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: w7cth
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, September 30, 2006 6:58 PM
> > Subject: [TS-520_820_530_830] Best mic for 830s?
> >
> > Hello, I just picked up a Kenwood 830s this last weekend. The
> > mc-50
> > was bad will not drive the radio. I have a D104 that works, but
> I
> > understand I may have impedance matching problem. Looking on
> Heil
> > web
> > site I see they have a kit for the D104.Or is it just better to
>
> > get a
> > new mic?
> >
> > I do like my D104 it looks cool.
> > Chris W7CTH

9741. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 05:08:32 UTC
From: w5rkl
Topic: 9691 Message: 9741

Are talking about carrier null or sideband balance? There is a difference.

Carrier null is adjusting the output of the balance modulator to the lowest possible level and has nothing to do with sideband balancing.

Sideband balancing is adjusting the output level of the sideband crystal controlled oscillators so they are equal and has nothing to do with carrier null.

Sideband balancing "balances" the output of the sideband generators so they are equal. That's why you have to switch between USB and LSB until both sidebands have equal output. This adjustment works like the "balance" control on your stereo. Incorrectly adjusted sideband balance control will cause one sideband be louder than the other.

Carrier null, "nulls" or "reduces" the carrier output of the balance modulator to it's lowest possible level. This adjustment is like a squelch control. Incorrectly adjusted carrier null controls will cause a constant carrier to appear along with the sideband RF output at the receiving end. I've seen incorrectly adjusted carrier null controls produce between 5 and 10 watts of steady carrier output with or without sideband output. This carrier will not change in amplitude except with QSB.

I would recommend performing the sideband balance first then follow on with the carrier null control.

When I make the sideband adjustments, I use a 1KHz tone fed into the microphone, adjusting the mic gain and watch the transmitters ALC meter for proper level, then adjust the sideband balance for equal output levels. You can montor the levels using a monitor scope such as an SM-220 or a good Heathkit SB-610 monitor scope. If you don't have a scope then either a seperate receiver with a VTVM connected across the receivers audio output or an sensitive RF meter. Adjust for equal readings in both sidebands.

When I adjust the carrier null, I also use a seperate receiver. Tune the receiver to the transmitters frequency and zero beat the frequency. Set the mic gain to complete counterclockwise position, mode switch in either sideband, key the transmitter by pressing PTT or flipping the SEND switch. Tune the seperate receiver slightly off the transmitters frequency and adjust the carrier null controls for as low a carrier signal as possible, as heard through the seperate receiver. Do not directly connect the seperate receiver to the transmitter under test, you could damage the receiver. If you do not have a seperate receiver, you can use an sensitive RF meter. Again, adjust for minimum

reading. A good SWR meter between the transmitter and dummy load set
to FWD and maximum sensitivity can be a substitute for a seperate
receiver or RF meter. I don't use the RF meter on the transmitter,
they are not sensitive enough. A good Field Strength Meter properly
adjusted can also be used.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi to All, I am working on a TS-830S and I am at the alignment of the
> carrier balance adjustment. In my manual it is item # 14. #14 Carrier
> balance adjustment. IF shift centered, RF gain fully ccw, rf vtvm, rear
> panel, IF out #2, TC1 minimun. When I try this I get no indication no
> matter where TC1 is set. Anyone have an idea what I am doing wrong.
> Thanks in advance.
>
> 73
> Art
> WB4MNK
>

9742. DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 03:21:18 UTC
From: Jerry
Topic: 8192 Message: 9742

Hello to all..this is Jerry KE7GGV-Albany Oregon....can the TS-820 SSB RIG DO QRP??....forgive me....and are there any KENWOOD SSB NETS???

Thx De KE7GGV...

9743. Re: [TS-520_820_530_830] Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 10:52:45 UTC
From: n9wb
Topic: 9691 Message: 9743

Art is trying to adjust the carrier null on the balanced detector in his TS-830 receiver. The procedure is to look for a signal from the carrier oscillator at the IF out jack on 8.830 MHz. Then adjust TC-1 for minimum. This signal is so low of a level he is having trouble seeing it. I usually use a receiver tuned to this signal and null it that way. Art does not have any such receiver available, so we are looking for another way.

Vy 73, Walt N9WB

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 02, 2006 12:08 AM
Subject: [TS-520_820_530_830] Re: Carrier Balance

Are talking about carrier null or sideband balance? There is a difference.

Carrier null is adjusting the output of the balance modulator to the lowest possible level and has nothing to do with sideband balancing.

Sideband balancing is adjusting the output level of the sideband crystal controlled oscillators so they are equal and has nothing to do with carrier null.

Sideband balancing "balances" the output of the sideband generators so they are equal. That's why you have to switch between USB and LSB until both sidebands have equal output. This adjustment works like the "balance" control on your stereo. Incorrectly adjusted sideband balance control will cause one sideband be louder than the other.

Carrier null, "nulls" or "reduces" the carrier output of the balance modulator to it's lowest possible level. This adjustment is like a squelch control. Incorrectly adjusted carrier null controls will cause a constant carrier to appear along with the sideband RF output at the receiving end. I've seen incorrectly adjusted carrier null controls produce between 5 and 10 watts of steady carrier output with or without sideband output. This carrier will not change in amplitude except with QSB.

I would recommend performing the sideband balance first then follow on with the carrier null control.

When I make the sideband adjustments, I use a 1KHz tone fed into the microphone, adjusting the mic gain and watch the transmitters ALC meter for proper level, then adjust the sideband balance for equal output levels. You can montor the levels using a monitor scope such as an SM-220 or a good Heathkit SB-610 monitor scope. If you don't have a

scope then either a seperate receiver with a VTVM connected across the receivers audio output or an sensitive RF meter. Adjust for equal readings in both sidebands.

When I adjust the carrier null, I also use a seperate receiver. Tune the receiver to the transmitters frequency and zero beat the frequency. Set the mic gain to complete counterclockwise position, mode switch in either sideband, key the transmitter by pressing PTT or flipping the SEND switch. Tune the seperate receiver slightly off the transmitters frequency and adjust the carrier null controls for as low a carrier signal as possible, as heard through the seperate receiver. Do not directly connect the seperate receiver to the transmitter under test, you could damage the receiver. If you do not have a seperate receiver, you can use an sensitive RF meter. Again, adjust for minimum reading. A good SWR meter between the transmitter and dummy load set to FWD and maximum sensitivity can be a substitute for a seperate receiver or RF meter. I don't use the RF meter on the transmitter, they are not sensitive enough. A good Field Strength Meter properly adjusted can also be used.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi to All, I am working on a TS-830S and I am at the alignment of the
> carrier balance adjustment. In my manual it is item # 14. #14 Carrier
> balance adjustment. IF shift centered, RF gain fully ccw, rf vtvm, rear
> panel, IF out #2, TC1 minimun. When I try this I get no indication no
> matter where TC1 is set. Anyone have an idea what I am doing wrong.
> Thanks in advance.
>
> 73
> Art
> WB4MNK
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.11/460 - Release Date: 10/1/06

[Non-text portions of this message have been removed]

9744. Re: [TS-520_820_530_830] DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 10:55:58 UTC
From: n9wb
Topic: 8192 Message: 9744

----- Original Message -----
From: Jerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 10:21 PM
Subject: [TS-520_820_530_830] DE KE7GGV

Hello to all..this is Jerry KE7GGV-Albany Oregon....can the TS-820 SSB
RIG DO QRP??....forgive me....and are there any KENWOOD SSB NETS???

Thx De KE7GGV...

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.11/460 - Release Date: 10/1/06

[Non-text portions of this message have been removed]

9745. A Thank You ..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 09:59:22 UTC
From: Ruben Echevarria
Topic: 9745 Message: 9745

Just want to post a BIG Thank YOU !!! To Ken N5EBD for sending me a cable for my MC50 mic. Hopefully one day I'll be able to pay it forward by helping someone else out.

Ruben Echevarria KA2HHB
ka2hhb_2000@...

[Non-text portions of this message have been removed]

9746. Re: [TS-520_820_530_830] DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 11:09:51 UTC
From: n9wb
Topic: 8192 Message: 9746

Jerry:

There are two solutions to this QRP operation.

The first can be found in the files section of this group, under Mods, then Use ALC to force QRP operation. This is a good way to do this.

Another method, depending on how low you wish the output to be, you can lower the final screen voltage. This can be done by adding a series resistor in series with the wire that goes to the SG point on the final unit. A 12K resistor will create about 40 w PEP. This is what I did to make my TS-820 drive my Collins Thirty S One amplifier that required 40 W input drive. I added a toggle switch on the back to bypass this added resistor for full power when I was not using the amp.

For lower QRP. Disconnect the wire from the SG pin and Ground the SG pin. Do not ground the wire as this is a voltage source. A toggle switch can be used to switch the SG pin between the wire with the screen voltage and ground.

If you are wanting QRP on CW, just reduce the carrier control.

On SSB reducing the carrier control will not change the output. Reducing the mike gain will, but if it is reduced below the ALC threshold, the output power becomes very erratic unless you are using an external compressor.

As far as a Kenwood net and rag chews with Kenwood users and others, please join the Yahoo Group KenwoodQSO.

----- Original Message -----
From: Jerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 10:21 PM
Subject: [TS-520_820_530_830] DE KE7GGV

Hello to all..this is Jerry KE7GGV-Albany Oregon....can the TS-820 SSB
RIG DO QRP??....forgive me....and are there any KENWOOD SSB NETS???

Thx De KE7GGV...

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.11/460 - Release Date: 10/1/06

[Non-text portions of this message have been removed]

9747. RE: [TS-520_820_530_830] Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 12:12:13 UTC
From: Darwin, Keith
Topic: 9691 Message: 9747

When I did the carrier balance adjustment on my 830s recently, I ended up with a rig whose minimum output on CW was 25 watts. I went back and checked the carrier balance and found that while I had indeed nulled it for LSB, it was not nulled on USB. I followed the book this time, adjusting both USB and LSB to minimize them equally. Neither was totally nulled, but both were pretty low. Since then the CW carrier will go from 0 to a tad over 100 watts just like it should.

I did my adjustment by monitoring on a separate RX. It worked very well.

- Keith KD1E -

-----Original Message-----

When I adjust the carrier null, I also use a seperate receiver. Tune the receiver to the transmitters frequency and zero beat the frequency. Set the mic gain to complete counterclockwise position, mode switch in either sideband, key the transmitter by pressing PTT or flipping the SEND switch. Tune the seperate receiver slightly off the transmitters frequency and adjust the carrier null controls for as low a carrier signal as possible, as heard through the seperate receiver.

9748. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 14:48:36 UTC
From: Rick May
Topic: 9693 Message: 9748

Hi Walt,
It has been a while since I had a MC-50 mic, but aren't there red dots on the two connectors you line up for high impedance? If I remember right you have to orient the connector on the rear of the mic itself as well as the one to the base.

73' Rick KC0HH

n9wb <n9wb@...> wrote: Jim:
Be sure it is set for High Impedance. If you do not know how, write me back. Walt N9WB

-

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9749. Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 15:31:05 UTC
From: max_ve3tmt
Topic: 9693 Message: 9749

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Walt,
> It has been a while since I had a MC-50 mic, but aren't there red dots on the two connectors you line up for high impedance? If I remember right you have to orient the connector on the rear of the mic itself as well as the one to the base.
>
> 73' Rick KC0HH

Yep you are right Rick. From my personal experience I got higher output on the high impedance setting (red dots) but a more mellow sound and lower output on low impedance (black dots). Not an issue if you are running an amp.

Max VE3TMT

9750. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 13:47:20 UTC
From: w5rkl
Topic: 9691 Message: 9750

If he has access to or can borrow a 10Mhz or higher scope, that would be much better than an RF probe and a VTVM. It's possible his RF probe and/or VTVM is not sensitive enough to pick up the weak signal. Just a thought.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Art is trying to adjust the carrier null on the balanced detector in his TS-830 receiver. The procedure is to look for a signal from the carrier oscillator at the IF out jack on 8.830 MHz. Then adjust TC-1 for minimum. This signal is so low of a level he is having trouble seeing it. I usually use a receiver tuned to this signal and null it that way. Art does not have any such receiver available, so we are looking for another way.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 02, 2006 12:08 AM
> Subject: [TS-520_820_530_830] Re: Carrier Balance
>
>
> Are talking about carrier null or sideband balance? There is a
> difference.
>
> Carrier null is adjusting the output of the balance modulator to the
> lowest possible level and has nothing to do with sideband balancing.
>
> Sideband balancing is adjusting the output level of the sideband
> crystal controlled oscillators so they are equal and has nothing to do
> with carrier null.
>
> Sideband balancing "balances" the output of the sideband generators so
> they are equal. That's why you have to switch between USB and LSB
> until both sidebands have equal output. This adjustment works like the
> "balance" control on your stereo. Incorrectly adjusted sideband
> balance control will cause one sideband be louder than the other.
>
> Carrier null, "nulls" or "reduces" the carrier output of the balance

> modulator to it's lowest possible level. This adjustment is like a
> squelch control. Incorrectly adjusted carrier null controls will cause
> a constant carrier to appear along with the sideband RF output at the
> receiving end. I've seen incorrectly adjusted carrier null controls
> produce between 5 and 10 watts of steady carrier output with or
> without sideband output. This carrier will not change in amplitude
> except with QSB.
>
> I would recommend performing the sideband balance first then follow on
> with the carrier null control.
>
> When I make the sideband adjustments, I use a 1KHz tone fed into the
> microphone, adjusting the mic gain and watch the transmitters ALC
> meter for proper level, then adjust the sideband balance for equal
> output levels. You can montor the levels using a monitor scope such as
> an SM-220 or a good Heathkit SB-610 monitor scope. If you don't have a
> scope then either a seperate receiver with a VTVM connected across the
> receivers audio output or an sensitive RF meter. Adjust for equal
> readings in both sidebands.
>
> When I adjust the carrier null, I also use a seperate receiver. Tune
> the receiver to the transmitters frequency and zero beat the
> frequency. Set the mic gain to complete counterclockwise position,
> mode switch in either sideband, key the transmitter by pressing PTT or
> flipping the SEND switch. Tune the seperate receiver slightly off the
> transmitters frequency and adjust the carrier null controls for as low
> a carrier signal as possible, as heard through the seperate receiver.
> Do not directly connect the seperate receiver to the transmitter under
> test, you could damage the receiver. If you do not have a seperate
> receiver, you can use an sensitive RF meter. Again, adjust for minimum
> reading. A good SWR meter between the transmitter and dummy load set
> to FWD and maximum sensitivity can be a substitute for a seperate
> receiver or RF meter. I don't use the RF meter on the transmitter,
> they are not sensitive enough. A good Field Strength Meter properly
> adjusted can also be used.
>
> 73's,
>
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@> wrote:
> >
> > Hi to All, I am working on a TS-830S and I am at the alignment
of the
> > carrier balance adjustment. In my manual it is item # 14. #14
Carrier
> > balance adjustment. IF shift centered, RF gain fully ccw, rf
vtvm, rear
> > panel, IF out #2, TC1 minimun. When I try this I get no

indication no
> > matter where TC1 is set. Anyone have an idea what I am doing wrong.
> > Thanks in advance.
> >
> > 73
> > Art
> > WB4MNK
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.11/460 - Release Date:
10/1/06
>
>
> [Non-text portions of this message have been removed]
>

9751. Re: DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 15:58:26 UTC
From: Ellen R
Topic: 8192 Message: 9751

Hi Jerry,

I have the first year edition of your rig, the TS-820. Can the TS-820 and 820S do QRP? - In stock form, it's sort of a mixed answer. On CW it can easily do QRP, by just turning the carrier level down until your output power (as viewed through a wattmeter) is at QRP levels (it's recommend though, that you retune the finals afterwords, for the cleanest signal).

As for SSB - wellllll, yes and no. Technically you could just run down the mic gain, until your voice peaks are at QRP level. The only problem with this although, is that you will have lousy audio. The best way to do SSB QRP with the 820 (or any other of the Kenwood hybrid rigs for that matter), is to trick the ALC, by introducing a voltage to the ALC pins (used for keeping the ALC within limits, when you're using an amp), on the acessory plug on the back of the radio. Oftentimes, all you need, is just a 9 volt battery (which may or may not need a potentiometer with it to adjust the voltage). This allows you to run full audio (as in normal mic gain), and basically vary how much drive you're feeding from the 12BY7A to the finals, hence setting your RFoutput power.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jerry" <ke7ggv@...> wrote:
>
> Hello to all..this is Jerry KE7GGV-Albany Oregon....can the TS-820
SSB
> RIG DO QRP??....forgive me....and are there any KENWOOD SSB NETS???
>
> Thx De KE7GGV...
>

9752. Re: [TS-520_820_530_830] Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 16:19:07 UTC
From: Peter A Markavage
Topic: 9693 Message: 9752

Impedance mismatch is never a good thing whether it's RF or audio
circuits.

My dots on my MC-50 cable connector faded away about ten years ago.

Pete, wa2cwa

On Mon, 02 Oct 2006 15:31:05 -0000 "max_ve3tmt" <max_ve3tmt@...>
writes:
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...>
> wrote:
> >
> > Hi Walt,
> > It has been a while since I had a MC-50 mic, but aren't there
> red
> dots on the two connectors you line up for high impedance? If I
> remember right you have to orient the connector on the rear of the
> mic
> itself as well as the one to the base.
> >
> > 73' Rick KC0HH
>
> Yep you are right Rick. From my personal experience I got higher
> output on the high impedance setting (red dots) but a more mellow
> sound and lower output on low impedance (black dots). Not an issue
> if
> you are running an amp.
>
> Max VE3TMT

9753. Re: Carrier Balance

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 17:09:06 UTC
From: Gordon
Topic: 9691 Message: 9753

You are correct Clif.
I figured that since Art had swapped out his Balanced Modulator Diodes
also, He would need to know how to do the Transmit side as well as the
receive side.
Sorry if it became confusing. My fault for not being clearer.
TC3 and VR4 are for the Transmit side adjustment .
TC1 is to adjust the receive part. As Clif pointed out, Totally
different procedures.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
>
> They are setting RX carrier balance, it is different operation for the
> TX side. Different caps and all.
>
> Clif
>

9754. Panel Light Replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 19:27:59 UTC
From: liquorstax
Topic: 9754 Message: 9754

Hi, the panel lights don't work on my 820S, will I tell a lie, the VFO light works sometimes, however the meter lights never work. Do you guys have any tips and tricks for me get these lights going?, whats involved in the bulb replacement? Thanks Geoff

9755. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 23:44:59 UTC
From: pgweber
Topic: 9685 Message: 9755

My 830s developed a raspy sidetone that was caused by a bad resistor on the rectifier board. In my case the resistor didn't open, it just changed value. I believe this resistor supplied the STB voltage. The resistor failed because of a QRO mod someone had done before I owned the rig. Hope this helps.
73
Pete KE5CTT

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> I suspect the problem is in the sidetone oscillator keying circuit or
> the sidetone oscillator itself.
>
> My recommendations are to use an o'scope. Ohm meters can't tell
> whether a capacitor is good or not. An ohm meter usually can only
> detect a shorted capacitor. Ohm meters can not provide sufficient
> voltage to show capacitor leakage. There are, however, DVM's that can
> tell the capacitance value but the capacitor must be out of the
> circuit. I don't trust them when the capacitor is in the circuit, too
> many other components in the circuit that can contribute to confusion
> with the reading.
>
> Checking transistors in a circuit is difficult. Normally, for example,
> a PNP transistor will have a more positive voltage on the collector
> when it is not conducting but a much less positive voltage when it is
> conducting. The opposite voltage polarity is true with an NPN
> transistor. The arrow on the component symbol determines the type of
> transistor, PNP or NPN.
>
> The base biasing circuit should show a change with keying. If it does
> but the collector voltage remains unchanged, then more than likely the
> transistor is bad. This can be seen very easily with an o'scope.
>
> Another helpful hint is to understand how the circuit works before
> attempting to troubleshoot. Most Kenwood manuals have a section that

> discribes the circuit operation which may point you in the right
> direction.
>
> I am, however, curious about the TP1 audio injection you are doing.
> Maybe you could provide a bit more information. Also some
additional
> information outlining the steps you are taking to determine failed
> components etc. We're all here to help.
>
> If I can further assist you, feel free to drop me an email.
>
>
> 73's,
>
> Mike
> W5RKL
>
>
>
>
>
> --- In TS-520_820_530_830@...m, John Harp <ka3dpw@>
wrote:
> >
> > Jim, this may sound a little silly comming from me another 830
> owner, but have you gone thru and clened the 830 recently. Many
times
> that helps resolve the problems for me in both my 830's in the
past.
> It may be worth a try, before you send it away. I find a good
cleaning
> has helped me see the interior and know it well on a routine basis.
> You may already have and I just don't know it. Just a suggestion.
> >
> > Jim Stoneback <jstonebk@> wrote: One last try before I
> ship it to a repair shop. Has anyone fixed this
> > problem before?
> >
> > My TS830s has no sidetone, thus no semi-QSK CW.
> >
> > With MON switch on, key depressed, there is no sine wave at TP1,
no
> qsk, no
> > CW output.
> >
> > I injected a tone at TP1 and get sidetone, semi-qsk action and CW
> output.
> >
> > I checked all the components in the sidetone circuit with no bad
> components

> > found; replaced transistor and zener anyway, to no avail. My
> confidence is
> > shaken. Help!
> >
> > 73,
> >
> > Jim Stoneback
> > K4AXF
> > http://www.qsl.net/k4axf
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> >
> > [Non-text portions of this message have been removed]
> >
>

9756. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-02 23:55:17 UTC
From: Gordon
Topic: 9685 Message: 9756

Yes Pete,
The components on the Recifier board are common failures. I have
found many open or changed value components there on the 830 and the
820. It is always a good place to start looking when diagnosing a
problem on these rigs.
I had suggested that Jim check R-12 and R-13. He found R-13 was
open. He replaced it and his rig is working great again.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "pgweber" <pgweber@...> wrote:
>
> My 830s developed a raspy sidetone that was caused by a bad resistor
> on the rectifier board. In my case the resistor didn't open, it
> just changed value. I believe this resistor supplied the STB
> voltage. The resistor failed because of a QRO mod someone had done
> before I owned the rig. Hope this helps.
> 73
> Pete KE5CTT
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > I suspect the problem is in the sidetone oscillator keying circuit
> or
> > the sidetone oscillator itself.
> >
> > My recommendations are to use an o'scope. Ohm meters can't tell
> > whether a capacitor is good or not. An ohm meter usually can only
> > detect a shorted capacitor. Ohm meters can not provide sufficient
> > voltage to show capacitor leakage. There are, however, DVM's that
> can
> > tell the capacitance value but the capacitor must be out of the
> > circuit. I don't trust them when the capacitor is in the circuit,
> too
> > many other components in the circuit that can contribute to
> confusion
> > with the reading.
> >
> > Checking transistors in a circuit is difficult. Normally, for
> example,
> > a PNP transistor will have a more positive voltage on the collector
> > when it is not conducting but a much less positive voltage when it
> is
> > conducting. The opposite voltage polarity is true with an NPN
> > transistor. The arrow on the component symbol determines the type

> of
> > transistor, PNP or NPN.
> >
> > The base biasing circuit should show a change with keying. If it
> does
> > but the collector voltage remains unchanged, then more than likely
> the
> > transistor is bad. This can be seen very easily with an o'scope.
> >
> > Another helpful hint is to understand how the circuit works before
> > attempting to troubleshoot. Most Kenwood manuals have a section
> that
> > discribes the circuit operation which may point you in the right
> > direction.
> >
> > I am, however, curious about the TP1 audio injection you are doing.
> > Maybe you could provide a bit more information. Also some
> additional
> > information outlining the steps you are taking to determine failed
> > components etc. We're all here to help.
> >
> > If I can further assist you, feel free to drop me an email.
> >
> >
> > 73's,
> >
> > Mike
> > W5RKL
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> > >
> > > Jim, this may sound a little silly comming from me another 830
> > owner, but have you gone thru and clened the 830 recently. Many
> times
> > that helps resolve the problems for me in both my 830's in the
> past.
> > It may be worth a try, before you send it away. I find a good
> cleaning
> > has helped me see the interior and know it well on a routine basis.
> > You may already have and I just don't know it. Just a suggestion.
> > >
> > > Jim Stoneback <jstonebk@> wrote: One last try before I
> > ship it to a repair shop. Has anyone fixed this
> > > problem before?
> > >

> > > My TS830s has no sidetone, thus no semi-QSK CW.
> > >
> > > With MON switch on, key depressed, there is no sine wave at TP1,
> no
> > qsk, no
> > > CW output.
> > >
> > > I injected a tone at TP1 and get sidetone, semi-qsk action and CW
> > output.
> > >
> > > I checked all the components in the sidetone circuit with no bad
> > components
> > > found; replaced transistor and zener anyway, to no avail. My
> > confidence is
> > > shaken. Help!
> > >
> > > 73,
> > >
> > > Jim Stoneback
> > > K4AXF
> > > http://www.qsl.net/k4axf
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

9757. Need a paddle for a paddle switch.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 00:55:41 UTC
From: David Rust
Topic: 9757 Message: 9757

Does anyone have an extra paddle for a switch for the 520/820/530/830 series? I have a 520s that has lost a paddle. The switch is ok.
Let me know. be willing to buy one.
Thanks....73 Dave W0DLR

[Non-text portions of this message have been removed]

9758. Fwd: [TS-520_820_530_830] Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 01:45:38 UTC
From: kc2aup@arrl.net
Topic: 9758 Message: 9758

I have been using the D104 with the 10 DA head on it and have had great audio reports. I think my money is on that one. I also have an MC-60, but never used it.

[Non-text portions of this message have been removed]

9759. Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 02:22:02 UTC
From: max_ve3tmt
Topic: 9693 Message: 9759

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
> Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
> was bad will not drive the radio. I have a D104 that works, but I
> understand I may have impedance matching problem. Looking on Heil web
> site I see they have a kit for the D104.Or is it just better to get a
> new mic?
>
> I do like my D104 it looks cool.
> Chris W7CTH

Chris,

I use a Behringer XM8500 feed into a Behringer VX2000 processor and
then through a Behringer PEQ-2200 parametric EQ. This feeds the
balanced modulator directly. Very cool sounding.

Max VE3TMT

9761. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 06:04:41 UTC
From: Gordon
Topic: 9760 Message: 9761

Hi Kevin,
What do you mean " I keyed the radio and the Grid current went off the scale" ? Are you referring to Plate Current ?
How are you measuring Grid current while Keying the rig ?

Just Curious and trying to get more info to help you out.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...> wrote:
>
> I've done some research on this forum before making this post and
> didn't run across a similar situation. I hope I've not overlooked
> something that has been addressed before.
>
> I recently purchased this 830 so I don't know the history on it...
>
> I used it on the air and everything seemed to be working fine and
> within specifications. An internal inspection revealed someone had
> done the "super size" cathode resistor mod. I ordered the
> appropriate resistors and replaced them to avoid future problems.
> Rig still working FB after install.
>
> I noticed the tubes were of different manufacture, so I figured they
> were not a matched set. I went through the procedure and neutralized
> the tubes in the event it had not been done. Adjustment was required.
>
> After neutralization, I checked the output and dipped the plate
> current. Everything appeared within spec and working normally.
>
> I walked away from the bench and made it about three steps when I
> heard an arc. I was hoping it didn't come from the 830, but knew
> that it probably did.
>
> I went back and keyed the radio. The grid current went off scale. I
> looked and found my newly installed cathode resistors were blown.
>
> I assumed a tube had shorted. I checked the tubes with an ohm meter
> and didn't find any shorts.
>
> I ordered a new set of tubes and new resistors. They arrived today
> and I installed them.
>
> Operation appears the same. The grid current is still off scale,

> regardless of band.
>
> I am unable to find any visual evidence to indicate where the arc
> occurred.
>
> I've been ham for over 20 years, but this is my first hybrid rig. I'm
> not experienced at troubleshooting tube type gear. I'd welcome any
> theories or suggestions anyone cares to offer.
>
> Assuming I get this problem hashed out, we'll move on to another, less
> catastrophic, problem with the rig...
>
> Prior to the problem with the excessive grid current occurring I
> noticed there was no TX and weak RX when the band switch was in the 28
> MHz position, regardless of the position of the .5 MHz button. Proper
> operation on all other postitions.
>
> Kevin Hunter - KA0I
> Holts Summit, MO
>

9762. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 08:51:56 UTC
From: Kevin Hunter
Topic: 9760 Message: 9762

Gordon - You are correct. I do mean plate current. Thanks for
clearing that up. I was thinking of my SB-1000 amp and refering to
grid current.

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Kevin,
> What do you mean " I keyed the radio and the Grid current went off the
> scale" ? Are you referring to Plate Current ?
> How are you measuring Grid current while Keying the rig ?
>
> Just Curious and trying to get more info to help you out.
>
> Gordon
> N6WK
>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > I've done some research on this forum before making this post and
> > didn't run across a similar situation. I hope I've not overlooked
> > something that has been addressed before.
> >
> > I recently purchased this 830 so I don't know the history on it...
> >
> > I used it on the air and everything seemed to be working fine and
> > within specifications. An internal inspection revealed someone had
> > done the "super size" cathode resistor mod. I ordered the
> > appropriate resistors and replaced them to avoid future problems.
> > Rig still working FB after install.
> >
> > I noticed the tubes were of different manufacture, so I figured they
> > were not a matched set. I went through the procedure and neutralized
> > the tubes in the event it had not been done. Adjustment was
required.
> >
> > After neutralization, I checked the output and dipped the plate
> > current. Everything appeared within spec and working normally.
> >
> > I walked away from the bench and made it about three steps when I

> > heard an arc. I was hoping it didn't come from the 830, but knew
> > that it probably did.
> >
> > I went back and keyed the radio. The grid current went off scale. I
> > looked and found my newly installed cathode resistors were blown.
> >
> > I assumed a tube had shorted. I checked the tubes with an ohm meter
> > and didn't find any shorts.
> >
> > I ordered a new set of tubes and new resistors. They arrived today
> > and I installed them.
> >
> > Operation appears the same. The grid current is still off scale,
> > regardless of band.
> >
> > I am unable to find any visual evidence to indicate where the arc
> > occurred.
> >
> > I've been ham for over 20 years, but this is my first hybrid rig. I'm
> > not experienced at troubleshooting tube type gear. I'd welcome any
> > theories or suggestions anyone cares to offer.
> >
> > Assuming I get this problem hashed out, we'll move on to another, less
> > catastrophic, problem with the rig...
> >
> > Prior to the problem with the excessive grid current occurring I
> > noticed there was no TX and weak RX when the band switch was in the 28
> > MHz position, regardless of the position of the .5 MHz button. Proper
> > operation on all other postitions.
> >
> > Kevin Hunter - KA0I
> > Holts Summit, MO
> >
>

9763. Re: [TS-520_820_530_830] Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 10:00:22 UTC
From: n9wb
Topic: 9693 Message: 9763

The DA-10 is great. Please see my previous post about your MC-60
Vy 73, Walt N9WB
----- Original Message -----
From: kc2aup@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 02, 2006 8:45 PM
Subject: Fwd: [TS-520_820_530_830] Re: Best mic for 830s?

I have been using the D104 with the 10 DA head on it and have had great
audio reports. I think my money is on that one. I also have an MC-60, but never
used it.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.11/460 - Release Date: 10/1/06

[Non-text portions of this message have been removed]

9764. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 15:33:01 UTC
From: Clif
Topic: 9760 Message: 9764

When you replaced the resistors did you use 1/2w 20 ohm carbon comp?

The metering circuit could have taken a hit and be indicating wrong.
Check the resistors in it also.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...>
wrote:
>
> Gordon - You are correct. I do mean plate current. Thanks for
> clearing that up. I was thinking of my SB-1000 amp and refering to
> grid current.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Kevin,
> > What do you mean " I keyed the radio and the Grid current went off the
> > scale" ? Are you referring to Plate Current ?
> > How are you measuring Grid current while Keying the rig ?
> >
> > Just Curious and trying to get more info to help you out.
> >
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > I've done some research on this forum before making this post and
> > > didn't run across a similar situation. I hope I've not overlooked
> > > something that has been addressed before.
> > >
> > > I recently purchased this 830 so I don't know the history on it...
> > >
> > > I used it on the air and everything seemed to be working fine and
> > > within specifications. An internal inspection revealed someone had
> > > done the "super size" cathode resistor mod. I ordered the
> > > appropriate resistors and replaced them to avoid future problems.
> > > Rig still working FB after install.
> > >

> > > I noticed the tubes were of different manufacture, so I figured they
> > > were not a matched set. I went through the procedure and
neutralized
> > > the tubes in the event it had not been done. Adjustment was
> required.
> > >
> > > After neutralization, I checked the output and dipped the plate
> > > current. Everything appeared within spec and working normally.
> > >
> > > I walked away from the bench and made it about three steps when I
> > > heard an arc. I was hoping it didn't come from the 830, but knew
> > > that it probably did.
> > >
> > > I went back and keyed the radio. The grid current went off
scale. I
> > > looked and found my newly installed cathode resistors were blown.
> > >
> > > I assumed a tube had shorted. I checked the tubes with an ohm
meter
> > > and didn't find any shorts.
> > >
> > > I ordered a new set of tubes and new resistors. They arrived today
> > > and I installed them.
> > >
> > > Operation appears the same. The grid current is still off scale,
> > > regardless of band.
> > >
> > > I am unable to find any visual evidence to indicate where the arc
> > > occurred.
> > >
> > > I've been ham for over 20 years, but this is my first hybrid
rig. I'm
> > > not experienced at troubleshooting tube type gear. I'd welcome any
> > > theories or suggestions anyone cares to offer.
> > >
> > > Assuming I get this problem hashed out, we'll move on to
another, less
> > > catastrophic, problem with the rig...
> > >
> > > Prior to the problem with the excessive grid current occurring I
> > > noticed there was no TX and weak RX when the band switch was in
the 28
> > > MHz position, regardless of the position of the .5 MHz button.
Proper
> > > operation on all other postitions.
> > >
> > > Kevin Hunter - KA0I
> > > Holts Summit, MO
> > >
> >

>

9765. RE: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s? My mistake

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 16:51:51 UTC
From: Pierre Wells
Topic: 9650 Message: 9765

My apologies
The VFO 230 is synthesized!! I shoild have checked it out before opening my big yap!! I was thinking of the VFO 120 and 130.
Peter VE2FAR

"Darwin, Keith" <keith.darwin@...> wrote: VFO 230 not synthesized? I hadn't even considered that. I figured if
it had memory, it had to be synth. Maybe not though.

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Pierre Wells
Sent: Friday, September 29, 2006 12:37 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?

To the best of my knowledge the VF0 230 is not synthesized. It's the last if not one of the last analog vfo's from Kenwood.
Peter VE2FAR

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9767. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 17:24:54 UTC
From: Gordon
Topic: 9760 Message: 9767

Kevin,
What does your ip meter show for idle bias in USB when you key the
mike ? Is it set to 60ma ? What does the ALC and the plate current
read in Tune mode? What does your plate voltage show? You might want
to hook up a transformer saver while you figure this out. There is
directions on building one in the Files section by Walt N9WB.
What brand and number tubes did you install? The chinese 6146's are
known to Short/Flash so they are not a good choice.

Gordon

In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...> wrote:
>
> Gordon - You are correct. I do mean plate current. Thanks for
> clearing that up. I was thinking of my SB-1000 amp and refering to
> grid current.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Kevin,
> > What do you mean " I keyed the radio and the Grid current went off the
> > scale" ? Are you referring to Plate Current ?
> > How are you measuring Grid current while Keying the rig ?
> >
> > Just Curious and trying to get more info to help you out.
> >
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > I've done some research on this forum before making this post and
> > > didn't run across a similar situation. I hope I've not overlooked
> > > something that has been addressed before.
> > >
> > > I recently purchased this 830 so I don't know the history on it...
> > >
> > > I used it on the air and everything seemed to be working fine and

> > > within specifications. An internal inspection revealed someone had
> > > done the "super size" cathode resistor mod. I ordered the
> > > appropriate resistors and replaced them to avoid future problems.
> > > Rig still working FB after install.
> > >
> > > I noticed the tubes were of different manufacture, so I figured they
> > > were not a matched set. I went through the procedure and
neutralized
> > > the tubes in the event it had not been done. Adjustment was
> required.
> > >
> > > After neutralization, I checked the output and dipped the plate
> > > current. Everything appeared within spec and working normally.
> > >
> > > I walked away from the bench and made it about three steps when I
> > > heard an arc. I was hoping it didn't come from the 830, but knew
> > > that it probably did.
> > >
> > > I went back and keyed the radio. The grid current went off
scale. I
> > > looked and found my newly installed cathode resistors were blown.
> > >
> > > I assumed a tube had shorted. I checked the tubes with an ohm
meter
> > > and didn't find any shorts.
> > >
> > > I ordered a new set of tubes and new resistors. They arrived today
> > > and I installed them.
> > >
> > > Operation appears the same. The grid current is still off scale,
> > > regardless of band.
> > >
> > > I am unable to find any visual evidence to indicate where the arc
> > > occurred.
> > >
> > > I've been ham for over 20 years, but this is my first hybrid
rig. I'm
> > > not experienced at troubleshooting tube type gear. I'd welcome any
> > > theories or suggestions anyone cares to offer.
> > >
> > > Assuming I get this problem hashed out, we'll move on to
another, less
> > > catastrophic, problem with the rig...
> > >
> > > Prior to the problem with the excessive grid current occurring I
> > > noticed there was no TX and weak RX when the band switch was in
the 28
> > > MHz position, regardless of the position of the .5 MHz button.
Proper
> > > operation on all other postitions.

> > >
> > > Kevin Hunter - KA0I
> > > Holts Summit, MO
> > >
> >
>

9768. Re: VFO 230 vs 240 for 830s? My mistake

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 17:25:55 UTC
From: Gordon
Topic: 9650 Message: 9768

What are VFO-240's and VFO 230's selling for these days? Anyone
bought or sold one lately?
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Pierre Wells
<lool5552002@...> wrote:
>
> My apologies
> The VFO 230 is synthesized!! I shoild have checked it out before
opening my big yap!! I was thinking of the VFO 120 and 130.
> Peter VE2FAR
>
> "Darwin, Keith" <keith.darwin@...> wrote:
VFO 230 not synthesized? I hadn't even considered that. I
figured if
> it had memory, it had to be synth. Maybe not though.
>
> - Keith KD1E -
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Pierre Wells
> Sent: Friday, September 29, 2006 12:37 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?
>
> To the best of my knowledge the VF0 230 is not synthesized. It's the
> last if not one of the last analog vfo's from Kenwood.
> Peter VE2FAR
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

9769. RE: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s? My mistake

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 17:57:17 UTC
From: Ken Gunton
Topic: 9650 Message: 9769

I bought a VFO-230 a couple of months ago for $200, and
managed to get one in mint condition at that price.

Ken W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Tuesday, October 03, 2006 1:26 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s? My mistake

What are VFO-240's and VFO 230's selling for these days? Anyone bought or sold
one lately? Gordon

--- In TS-520_820_530_830@yahoogroups.com, Pierre Wells <lool5552002@...> wrote:
>
> My apologies
> The VFO 230 is synthesized!! I shoild have checked it out before
opening my big yap!! I was thinking of the VFO 120 and 130.
> Peter VE2FAR
>
> "Darwin, Keith" <keith.darwin@...> wrote:
VFO 230 not synthesized? I hadn't even considered that. I figured if
> it had memory, it had to be synth. Maybe not though.
>
> - Keith KD1E -
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Pierre Wells
> Sent: Friday, September 29, 2006 12:37 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: VFO 230 vs 240 for 830s?
>
> To the best of my knowledge the VF0 230 is not synthesized. It's the
> last if not one of the last analog vfo's from Kenwood. Peter VE2FAR
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.

>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

9770. TS-830S & RTTY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 17:57:41 UTC
From: Jeroen
Topic: 9770 Message: 9770

Hi group,

This year I will be one of the operators on a Jamboree On The Air station (PA3HEB/J). I was planning on doing some RTTY and maybe PSK31, but mainly voice of course (in The Netherlands scouts are allowed to handle the mic or keyboard themselves, under supervision of a licensed ham). Audio connections between rig and PC will be through 1:1 audio transformers.
What are the best settings for mic gain, compression (probably off)? Should I reduce output power, and if yes, should I do this tricking the ALC (transverter jack) or by lowering the mic gain? Can xmit-rec switching be done with vox?

Tnx
73 de PF1JM

9771. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 18:29:36 UTC
From: Kevin Hunter
Topic: 9760 Message: 9771

Gordon - The idle bias is now up around 150 mA. I had it adjusted to
60mA before I started having problems. I re-adjusted it down to
60mA. Plate current still off scale.

Plate voltage is about 925 volts without load.

Ip in TUNE mode reads 130mA

ALC in TUNE mode reads about 2/3rds deflection within the ALC bracket
with the carrier control at approximately 9 o'clock position.

The replacement tubes are Sylvania brand 6146B's.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Kevin,
> What does your ip meter show for idle bias in USB when you key the
> mike ? Is it set to 60ma ? What does the ALC and the plate current
> read in Tune mode? What does your plate voltage show? You might want
> to hook up a transformer saver while you figure this out. There is
> directions on building one in the Files section by Walt N9WB.
> What brand and number tubes did you install? The chinese 6146's are
> known to Short/Flash so they are not a good choice.
>
> Gordon
> ---
>
>
> In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@> wrote:
> >
> > Gordon - You are correct. I do mean plate current. Thanks for
> > clearing that up. I was thinking of my SB-1000 amp and refering to
> > grid current.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Kevin,
> > > What do you mean " I keyed the radio and the Grid current went
off the
> > > scale" ? Are you referring to Plate Current ?
> > > How are you measuring Grid current while Keying the rig ?
> > >
> > > Just Curious and trying to get more info to help you out.
> > >

> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > I've done some research on this forum before making this post and
> > > > didn't run across a similar situation. I hope I've not
overlooked
> > > > something that has been addressed before.
> > > >
> > > > I recently purchased this 830 so I don't know the history on it...
> > > >
> > > > I used it on the air and everything seemed to be working fine and
> > > > within specifications. An internal inspection revealed
someone had
> > > > done the "super size" cathode resistor mod. I ordered the
> > > > appropriate resistors and replaced them to avoid future
problems.
> > > > Rig still working FB after install.
> > > >
> > > > I noticed the tubes were of different manufacture, so I
figured they
> > > > were not a matched set. I went through the procedure and
> neutralized
> > > > the tubes in the event it had not been done. Adjustment was
> > required.
> > > >
> > > > After neutralization, I checked the output and dipped the plate
> > > > current. Everything appeared within spec and working normally.
> > > >
> > > > I walked away from the bench and made it about three steps when I
> > > > heard an arc. I was hoping it didn't come from the 830, but knew
> > > > that it probably did.
> > > >
> > > > I went back and keyed the radio. The grid current went off
> scale. I
> > > > looked and found my newly installed cathode resistors were blown.
> > > >
> > > > I assumed a tube had shorted. I checked the tubes with an ohm
> meter
> > > > and didn't find any shorts.
> > > >
> > > > I ordered a new set of tubes and new resistors. They arrived
today

> > > > and I installed them.
> > > >
> > > > Operation appears the same. The grid current is still off scale,
> > > > regardless of band.
> > > >
> > > > I am unable to find any visual evidence to indicate where the arc
> > > > occurred.
> > > >
> > > > I've been ham for over 20 years, but this is my first hybrid
> rig. I'm
> > > > not experienced at troubleshooting tube type gear. I'd
welcome any
> > > > theories or suggestions anyone cares to offer.
> > > >
> > > > Assuming I get this problem hashed out, we'll move on to
> another, less
> > > > catastrophic, problem with the rig...
> > > >
> > > > Prior to the problem with the excessive grid current occurring I
> > > > noticed there was no TX and weak RX when the band switch was in
> the 28
> > > > MHz position, regardless of the position of the .5 MHz button.
> Proper
> > > > operation on all other postitions.
> > > >
> > > > Kevin Hunter - KA0I
> > > > Holts Summit, MO
> > > >
> > >
> >
>

9772. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 18:37:30 UTC
From: Kevin Hunter
Topic: 9760 Message: 9772

Clif - I used 20 ohm, 1/2 watt, metal film resistors, instead of carbon comp, based on some info from an 830 restoration site I located on the web. I'd be interested in your thoughts on using metal film vs. carbon comp.

I made reply to Gordon with some current readings. It appears all current readings are showing higher than they should. I'll check the metering circuit and let you know what I find.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> When you replaced the resistors did you use 1/2w 20 ohm carbon comp?
>
> The metering circuit could have taken a hit and be indicating wrong.
> Check the resistors in it also.
>
> Clif
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - You are correct. I do mean plate current. Thanks for
> > clearing that up. I was thinking of my SB-1000 amp and refering to
> > grid current.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Kevin,
> > > What do you mean " I keyed the radio and the Grid current went
off the
> > > scale" ? Are you referring to Plate Current ?
> > > How are you measuring Grid current while Keying the rig ?
> > >
> > > Just Curious and trying to get more info to help you out.
> > >
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > >
> > >
> > >

> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > I've done some research on this forum before making this post and
> > > > didn't run across a similar situation. I hope I've not
overlooked
> > > > something that has been addressed before.
> > > >
> > > > I recently purchased this 830 so I don't know the history on it...
> > > >
> > > > I used it on the air and everything seemed to be working fine and
> > > > within specifications. An internal inspection revealed
someone had
> > > > done the "super size" cathode resistor mod. I ordered the
> > > > appropriate resistors and replaced them to avoid future
problems.
> > > > Rig still working FB after install.
> > > >
> > > > I noticed the tubes were of different manufacture, so I
figured they
> > > > were not a matched set. I went through the procedure and
> neutralized
> > > > the tubes in the event it had not been done. Adjustment was
> > required.
> > > >
> > > > After neutralization, I checked the output and dipped the plate
> > > > current. Everything appeared within spec and working normally.
> > > >
> > > > I walked away from the bench and made it about three steps when I
> > > > heard an arc. I was hoping it didn't come from the 830, but knew
> > > > that it probably did.
> > > >
> > > > I went back and keyed the radio. The grid current went off
> scale. I
> > > > looked and found my newly installed cathode resistors were blown.
> > > >
> > > > I assumed a tube had shorted. I checked the tubes with an ohm
> meter
> > > > and didn't find any shorts.
> > > >
> > > > I ordered a new set of tubes and new resistors. They arrived
today
> > > > and I installed them.
> > > >
> > > > Operation appears the same. The grid current is still off scale,
> > > > regardless of band.
> > > >
> > > > I am unable to find any visual evidence to indicate where the arc
> > > > occurred.
> > > >

> > > > I've been ham for over 20 years, but this is my first hybrid
> rig. I'm
> > > > not experienced at troubleshooting tube type gear. I'd
welcome any
> > > > theories or suggestions anyone cares to offer.
> > > >
> > > > Assuming I get this problem hashed out, we'll move on to
> another, less
> > > > catastrophic, problem with the rig...
> > > >
> > > > Prior to the problem with the excessive grid current occurring I
> > > > noticed there was no TX and weak RX when the band switch was in
> the 28
> > > > MHz position, regardless of the position of the .5 MHz button.
> Proper
> > > > operation on all other postitions.
> > > >
> > > > Kevin Hunter - KA0I
> > > > Holts Summit, MO
> > > >
> > >
> >
>

9773. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 19:20:16 UTC
From: Gordon
Topic: 9760 Message: 9773

Ok, Yes that is High. My 830 is only running 75 ma in tune position.
Ok next question, What do R7 and R8 ohm out at under the finals ? they should be 100 ohm 1/2 watt. Did you replace those as well as the 20 ohm 1/2 watt resistors ?
Also, as Clif mentioned, check the resistors R6 and R10 in the final section as they are the resistors for the Meter IP.
Also, how is the bandswitch coupler inside the Final cage? Is it broken? Cracked ?
Can you take some voltage readings from the Final board for us? If so, What is the voltage on the SG terminal, then on the DRV terminal also the FG terminal.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...> wrote:
>
> Gordon - The idle bias is now up around 150 mA. I had it adjusted to
> 60mA before I started having problems. I re-adjusted it down to
> 60mA. Plate current still off scale.
>
> Plate voltage is about 925 volts without load.
>
> Ip in TUNE mode reads 130mA
>
> ALC in TUNE mode reads about 2/3rds deflection within the ALC bracket
> with the carrier control at approximately 9 o'clock position.
>
> The replacement tubes are Sylvania brand 6146B's.
>
>
> Kevin
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Kevin,
> > What does your ip meter show for idle bias in USB when you key the
> > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > read in Tune mode? What does your plate voltage show? You might want
> > to hook up a transformer saver while you figure this out. There is
> > directions on building one in the Files section by Walt N9WB.
> > What brand and number tubes did you install? The chinese 6146's are
> > known to Short/Flash so they are not a good choice.

> >
> > Gordon
> > ---
> >
> >
> > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@> wrote:
> > >
> > > Gordon - You are correct. I do mean plate current. Thanks for
> > > clearing that up. I was thinking of my SB-1000 amp and
refering to
> > > grid current.
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Hi Kevin,
> > > > What do you mean " I keyed the radio and the Grid current went
> off the
> > > > scale" ? Are you referring to Plate Current ?
> > > > How are you measuring Grid current while Keying the rig ?
> > > >
> > > > Just Curious and trying to get more info to help you out.
> > > >
> > > > Gordon
> > > > N6WK
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > > wrote:
> > > > >
> > > > > I've done some research on this forum before making this
post and
> > > > > didn't run across a similar situation. I hope I've not
> overlooked
> > > > > something that has been addressed before.
> > > > >
> > > > > I recently purchased this 830 so I don't know the history on
it...
> > > > >
> > > > > I used it on the air and everything seemed to be working
fine and
> > > > > within specifications. An internal inspection revealed
> someone had
> > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > appropriate resistors and replaced them to avoid future
> problems.
> > > > > Rig still working FB after install.

> > > > >
> > > > > I noticed the tubes were of different manufacture, so I
> figured they
> > > > > were not a matched set. I went through the procedure and
> > neutralized
> > > > > the tubes in the event it had not been done. Adjustment was
> > > required.
> > > > > >
> > > > > After neutralization, I checked the output and dipped the plate
> > > > > current. Everything appeared within spec and working normally.
> > > > > >
> > > > > I walked away from the bench and made it about three steps
when I
> > > > > heard an arc. I was hoping it didn't come from the 830,
but knew
> > > > > that it probably did.
> > > > > >
> > > > > I went back and keyed the radio. The grid current went off
> > scale. I
> > > > > looked and found my newly installed cathode resistors were
blown.
> > > > > >
> > > > > I assumed a tube had shorted. I checked the tubes with an ohm
> > meter
> > > > > and didn't find any shorts.
> > > > > >
> > > > > I ordered a new set of tubes and new resistors. They arrived
> today
> > > > > and I installed them.
> > > > > >
> > > > > Operation appears the same. The grid current is still off
scale,
> > > > > regardless of band.
> > > > > >
> > > > > I am unable to find any visual evidence to indicate where
the arc
> > > > > occurred.
> > > > > >
> > > > > I've been ham for over 20 years, but this is my first hybrid
> > rig. I'm
> > > > > not experienced at troubleshooting tube type gear. I'd
> welcome any
> > > > > theories or suggestions anyone cares to offer.
> > > > > >
> > > > > Assuming I get this problem hashed out, we'll move on to
> > another, less
> > > > > catastrophic, problem with the rig...
> > > > > >
> > > > > Prior to the problem with the excessive grid current occurring I
> > > > > noticed there was no TX and weak RX when the band switch was in

> > the 28
> > > > > MHz position, regardless of the position of the .5 MHz button.
> > Proper
> > > > > operation on all other postitions.
> > > > > >
> > > > > > Kevin Hunter - KA0I
> > > > > > Holts Summit, MO
> > > > > > >
> > > > > >
> > > > >
> > >
>

9774. Re: TS-830S & RTTY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 19:29:34 UTC
From: Gordon
Topic: 9770 Message: 9774

Well for sure you will want to run with compression OFF, You should be able to control the drive and ALC by using the sound Card output. I wouldn't want to see more then maybe 25 to 30 weatts output on peaks on RTTY.
I do not believe that the Transmit/Receive can be done with Vox, I would think a Foot switch would be the best way to key the rig . It is easy to wire cables from the Computer sound output and line in to the 830's mic and speaker connections. The 830 User manual describes how to run AFSK with the 830 on page 25.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Jeroen" <jeroen_aletta@...> wrote:
>
> Hi group,
>
> This year I will be one of the operators on a Jamboree On The Air
> station (PA3HEB/J). I was planning on doing some RTTY and maybe PSK31,
> but mainly voice of course (in The Netherlands scouts are allowed to
> handle the mic or keyboard themselves, under supervision of a licensed
> ham). Audio connections between rig and PC will be through 1:1 audio
> transformers.
> What are the best settings for mic gain, compression (probably off)?
> Should I reduce output power, and if yes, should I do this tricking the
> ALC (transverter jack) or by lowering the mic gain? Can xmit-rec
> switching be done with vox?
>
> Tnx
> 73 de PF1JM
>

9775. TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 19:31:04 UTC
From: David Rust
Topic: 9775 Message: 9775

Guys, I ran across an 830s in VERY NICE condition with new tubes but low output. Priced at $250. Is that reasonable? I need another radio like a knot on the head, but I would like to have an 830s.

73 Dave W0DLR

[Non-text portions of this message have been removed]

9776. Re: TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 20:13:58 UTC
From: Gordon
Topic: 9775 Message: 9776

Yes,
That is a reasonable price for a Very Nice 830 with a minor Problem.
Buy it, we'll help you fix it.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Guys, I ran across an 830s in VERY NICE condition with new tubes but
low output. Priced at $250. Is that reasonable? I need another
radio like a knot on the head, but I would like to have an 830s.
>
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

9777. Re: TS-830S & RTTY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 20:14:19 UTC
From: max_ve3tmt
Topic: 9770 Message: 9777

--- In TS-520_820_530_830@yahoogroups.com, "Jeroen"
<jeroen_aletta@...> wrote:

What are the best settings for mic gain, compression (probably off)?
> Should I reduce output power, and if yes, should I do this tricking the
> ALC (transverter jack) or by lowering the mic gain? Can xmit-rec
> switching be done with vox?

I run PSK and RTTY on my TS830 all the time. I tapped off the rx audio before the AF GAIN pot so I get a fixed level going into the sound card. T-ing off the speaker out will work just as well just keep the levels set right in your computer mixer settings. I never use the compression and I run the mic gain at 4. I get very good signal reports as to the signal quality. I usually run about 40W out and have good luck.

Max VE3TMT

9778. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 20:22:25 UTC
From: Kevin Hunter
Topic: 9760 Message: 9778

Gordon - I did replace R7 and R8 at the same time as I replaced the
others. I checked them out of circuit and they are still 100 ohms.
No signs of heating or cracking.

I am familiar with the problem of the cracked shaft couplers on the
bandswitch. These don't show any signs of cracking. I assume
someone must have replaced them somewhere along the way.

I will check R6 and R10.

You might give me some guidance on checking those voltages on the
final board. I don't have any problem making the measurement, but
tell me what condition the transmitter should be in when I'm taking
the reading. I'm refering to things like mode switch position, TX or
RX, etc.

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> Ok next question, What do R7 and R8 ohm out at under the finals ? they
> should be 100 ohm 1/2 watt. Did you replace those as well as the 20
> ohm 1/2 watt resistors ?
> Also, as Clif mentioned, check the resistors R6 and R10 in the final
> section as they are the resistors for the Meter IP.
> Also, how is the bandswitch coupler inside the Final cage? Is it
> broken? Cracked ?
> Can you take some voltage readings from the Final board for us? If
> so, What is the voltage on the SG terminal, then on the DRV terminal
> also the FG terminal.
>
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - The idle bias is now up around 150 mA. I had it adjusted to
> > 60mA before I started having problems. I re-adjusted it down to
> > 60mA. Plate current still off scale.
> >
> > Plate voltage is about 925 volts without load.
> >
> > Ip in TUNE mode reads 130mA
> >
> > ALC in TUNE mode reads about 2/3rds deflection within the ALC bracket
> > with the carrier control at approximately 9 o'clock position.

> >
> > The replacement tubes are Sylvania brand 6146B's.
> >
> >
> > Kevin
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Kevin,
> > > What does your ip meter show for idle bias in USB when you key the
> > > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > > read in Tune mode? What does your plate voltage show? You might want
> > > to hook up a transformer saver while you figure this out. There is
> > > directions on building one in the Files section by Walt N9WB.
> > > What brand and number tubes did you install? The chinese 6146's are
> > > known to Short/Flash so they are not a good choice.
> > >
> > > Gordon
> > > ---
> > >
> > >
> > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
wrote:
> > > >
> > > > Gordon - You are correct. I do mean plate current. Thanks for
> > > > clearing that up. I was thinking of my SB-1000 amp and
> refering to
> > > > grid current.
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Hi Kevin,
> > > > > What do you mean " I keyed the radio and the Grid current went
> > off the
> > > > > scale" ? Are you referring to Plate Current ?
> > > > > How are you measuring Grid current while Keying the rig ?
> > > > >
> > > > > Just Curious and trying to get more info to help you out.
> > > > >
> > > > > Gordon
> > > > > N6WK
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"

<kj558@>
> > > > > wrote:
> > > > > >
> > > > > > I've done some research on this forum before making this
> post and
> > > > > > didn't run across a similar situation. I hope I've not
> > overlooked
> > > > > > something that has been addressed before.
> > > > > >
> > > > > > I recently purchased this 830 so I don't know the history on
> it...
> > > > > >
> > > > > > I used it on the air and everything seemed to be working
> fine and
> > > > > > within specifications. An internal inspection revealed
> > someone had
> > > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > > appropriate resistors and replaced them to avoid future
> > problems.
> > > > > > Rig still working FB after install.
> > > > > >
> > > > > > I noticed the tubes were of different manufacture, so I
> > figured they
> > > > > > were not a matched set. I went through the procedure and
> > > neutralized
> > > > > > the tubes in the event it had not been done. Adjustment was
> > > required.
> > > > > >
> > > > > > After neutralization, I checked the output and dipped the
plate
> > > > > > current. Everything appeared within spec and working
normally.
> > > > > >
> > > > > > I walked away from the bench and made it about three steps
> when I
> > > > > > heard an arc. I was hoping it didn't come from the 830,
> but knew
> > > > > > that it probably did.
> > > > > >
> > > > > > I went back and keyed the radio. The grid current went off
> > > scale. I
> > > > > > looked and found my newly installed cathode resistors were
> blown.
> > > > > >
> > > > > > I assumed a tube had shorted. I checked the tubes with
an ohm
> > > meter
> > > > > > and didn't find any shorts.
> > > > > >
> > > > > > I ordered a new set of tubes and new resistors. They arrived

> > today
> > > > > > and I installed them.
> > > > > >
> > > > > > Operation appears the same. The grid current is still off
> scale,
> > > > > > regardless of band.
> > > > > >
> > > > > > I am unable to find any visual evidence to indicate where
> the arc
> > > > > > occurred.
> > > > > >
> > > > > > I've been ham for over 20 years, but this is my first hybrid
> > > rig. I'm
> > > > > > not experienced at troubleshooting tube type gear. I'd
> > welcome any
> > > > > > theories or suggestions anyone cares to offer.
> > > > > >
> > > > > > Assuming I get this problem hashed out, we'll move on to
> > > another, less
> > > > > > catastrophic, problem with the rig...
> > > > > >
> > > > > > Prior to the problem with the excessive grid current
occurring I
> > > > > > noticed there was no TX and weak RX when the band switch
was in
> > > the 28
> > > > > > MHz position, regardless of the position of the .5 MHz
button.
> > > Proper
> > > > > > operation on all other postitions.
> > > > > >
> > > > > > Kevin Hunter - KA0I
> > > > > > Holts Summit, MO
> > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9779. RE: [TS-520_820_530_830] Re: TS-830S & RTTY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 20:34:11 UTC
From: Julio VE3FH
Topic: 9770 Message: 9779

I used my TS-830S on RTTY for years and the vox never worked right to control the tx/rx, it was quite unstable. A foot switch like Gordon says is a very good option. For ragchewing you can use the send switch in the front but this is a pain for contesting or pile-ups. Personally I prefer to control the PTT line with MMTTY or whatever software you use for RTTY, the interface is a simple transistor.

I followed the recommendation in the manual and always kept the plate current below 165mA, depending on the band this would give me not more than 30W out. Occasionally I went above that to break some pileups but never for long because the risk of damaging the finals

I kept the speech processor off at all times for RTTY.

73,
Julio VE3FH

>From: "Gordon" <n6wk@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: TS-830S & RTTY
>Date: Tue, 03 Oct 2006 19:29:34 -0000
>
>Well for sure you will want to run with compression OFF, You should be
>able to control the drive and ALC by using the sound Card output. I
>wouldn't want to see more then maybe 25 to 30 weatts output on peaks
>on RTTY.
>I do not believe that the Transmit/Receive can be done with Vox, I
>would think a Foot switch would be the best way to key the rig . It is
>easy to wire cables from the Computer sound output and line in to
>the 830's mic and speaker connections. The 830 User manual describes
>how to run AFSK with the 830 on page 25.
>73,
>Gordon
>
>
>--- In TS-520_820_530_830@yahoogroups.com, "Jeroen"
><jeroen_aletta@...> wrote:
> >
> > Hi group,
> >
> > This year I will be one of the operators on a Jamboree On The Air
> > station (PA3HEB/J). I was planning on doing some RTTY and maybe PSK31,
> > but mainly voice of course (in The Netherlands scouts are allowed to
> > handle the mic or keyboard themselves, under supervision of a licensed
> > ham). Audio connections between rig and PC will be through 1:1 audio

> > transformers.
> > What are the best settings for mic gain, compression (probably off)?
> > Should I reduce output power, and if yes, should I do this tricking the
> > ALC (transverter jack) or by lowering the mic gain? Can xmit-rec
> > switching be done with vox?
> >
> > Tnx
> > 73 de PF1JM
> >

9780. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 21:01:26 UTC
From: Kevin Hunter
Topic: 9760 Message: 9780

I checked R6 and R10. They are within spec.

Kevin

In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> Ok next question, What do R7 and R8 ohm out at under the finals ? they
> should be 100 ohm 1/2 watt. Did you replace those as well as the 20
> ohm 1/2 watt resistors ?
> Also, as Clif mentioned, check the resistors R6 and R10 in the final
> section as they are the resistors for the Meter IP.
> Also, how is the bandswitch coupler inside the Final cage? Is it
> broken? Cracked ?
> Can you take some voltage readings from the Final board for us? If
> so, What is the voltage on the SG terminal, then on the DRV terminal
> also the FG terminal.
>
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - The idle bias is now up around 150 mA. I had it adjusted to
> > 60mA before I started having problems. I re-adjusted it down to
> > 60mA. Plate current still off scale.
> >
> > Plate voltage is about 925 volts without load.
> >
> > Ip in TUNE mode reads 130mA
> >
> > ALC in TUNE mode reads about 2/3rds deflection within the ALC bracket
> > with the carrier control at approximately 9 o'clock position.
> >
> > The replacement tubes are Sylvania brand 6146B's.
> >
> >
> > Kevin
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Kevin,

> > > What does your ip meter show for idle bias in USB when you key the
> > > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > > read in Tune mode? What does your plate voltage show? You might want
> > > to hook up a transformer saver while you figure this out. There is
> > > directions on building one in the Files section by Walt N9WB.
> > > What brand and number tubes did you install? The chinese 6146's are
> > > known to Short/Flash so they are not a good choice.
> > >
> > > Gordon
> > > ---
> > >
> > >
> > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
wrote:
> > > >
> > > > Gordon - You are correct. I do mean plate current. Thanks for
> > > > clearing that up. I was thinking of my SB-1000 amp and
> refering to
> > > > grid current.
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Hi Kevin,
> > > > > What do you mean " I keyed the radio and the Grid current went
> > off the
> > > > > scale" ? Are you referring to Plate Current ?
> > > > > How are you measuring Grid current while Keying the rig ?
> > > > >
> > > > > Just Curious and trying to get more info to help you out.
> > > > >
> > > > > Gordon
> > > > > N6WK
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > > wrote:
> > > > > >
> > > > > > I've done some research on this forum before making this
> post and
> > > > > > didn't run across a similar situation. I hope I've not
> > overlooked
> > > > > > something that has been addressed before.
> > > > > >
> > > > > > I recently purchased this 830 so I don't know the history on
> it...

> > > > > >
> > > > > > I used it on the air and everything seemed to be working
> fine and
> > > > > > within specifications. An internal inspection revealed
> > someone had
> > > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > > appropriate resistors and replaced them to avoid future
> > problems.
> > > > > > Rig still working FB after install.
> > > > > > >
> > > > > > I noticed the tubes were of different manufacture, so I
> > figured they
> > > > > > were not a matched set. I went through the procedure and
> > > neutralized
> > > > > > the tubes in the event it had not been done. Adjustment was
> > > > required.
> > > > > > >
> > > > > > After neutralization, I checked the output and dipped the
plate
> > > > > > current. Everything appeared within spec and working
normally.
> > > > > > >
> > > > > > I walked away from the bench and made it about three steps
> when I
> > > > > > heard an arc. I was hoping it didn't come from the 830,
> but knew
> > > > > > that it probably did.
> > > > > > >
> > > > > > I went back and keyed the radio. The grid current went off
> > > scale. I
> > > > > > looked and found my newly installed cathode resistors were
> blown.
> > > > > > >
> > > > > > I assumed a tube had shorted. I checked the tubes with
an ohm
> > > meter
> > > > > > and didn't find any shorts.
> > > > > > >
> > > > > > I ordered a new set of tubes and new resistors. They arrived
> > today
> > > > > > and I installed them.
> > > > > > >
> > > > > > Operation appears the same. The grid current is still off
> scale,
> > > > > > regardless of band.
> > > > > > >
> > > > > > I am unable to find any visual evidence to indicate where
> the arc
> > > > > > occurred.
> > > > > > >

> > > > > > I've been ham for over 20 years, but this is my first hybrid
> > > rig. I'm
> > > > > > not experienced at troubleshooting tube type gear. I'd
> > welcome any
> > > > > > theories or suggestions anyone cares to offer.
> > > > > >
> > > > > > Assuming I get this problem hashed out, we'll move on to
> > > another, less
> > > > > > catastrophic, problem with the rig...
> > > > > >
> > > > > > Prior to the problem with the excessive grid current
occurring I
> > > > > > noticed there was no TX and weak RX when the band switch
was in
> > > the 28
> > > > > > MHz position, regardless of the position of the .5 MHz
button.
> > > Proper
> > > > > > operation on all other postitions.
> > > > > >
> > > > > > Kevin Hunter - KA0I
> > > > > > Holts Summit, MO
> > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9781. TS-820 Marker Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 20:22:15 UTC
From: jsloss
Topic: 9781 Message: 9781

I have a spare 820 Marker Unit for sale. If you need one please contact me off list.

Thanks,
Joe k7mks

[Non-text portions of this message have been removed]

9782. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 21:02:50 UTC
From: Gordon
Topic: 9760 Message: 9782

Kevin, ,
lets start on any band in receive. I just want to get some base line
figures. I would suggest doing it with the heaters on. Adfter you
get those, we can evaluate them and go from there.
Also, BE VERY CAREFUL, there are lethal Voltages in there as I am sure
you are aware, even when just receiving. Always keep one hand behind you.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...>
wrote:
>
> Gordon - I did replace R7 and R8 at the same time as I replaced the
> others. I checked them out of circuit and they are still 100 ohms.
> No signs of heating or cracking.
>
> I am familiar with the problem of the cracked shaft couplers on the
> bandswitch. These don't show any signs of cracking. I assume
> someone must have replaced them somewhere along the way.
>
> I will check R6 and R10.
>
> You might give me some guidance on checking those voltages on the
> final board. I don't have any problem making the measurement, but
> tell me what condition the transmitter should be in when I'm taking
> the reading. I'm refering to things like mode switch position, TX or
> RX, etc.
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> > Ok next question, What do R7 and R8 ohm out at under the finals ? they
> > should be 100 ohm 1/2 watt. Did you replace those as well as the 20
> > ohm 1/2 watt resistors ?
> > Also, as Clif mentioned, check the resistors R6 and R10 in the final
> > section as they are the resistors for the Meter IP.
> > Also, how is the bandswitch coupler inside the Final cage? Is it
> > broken? Cracked ?
> > Can you take some voltage readings from the Final board for us? If
> > so, What is the voltage on the SG terminal, then on the DRV terminal
> > also the FG terminal.
> >
> > Gordon
> >

> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - The idle bias is now up around 150 mA. I had it
adjusted to
> > > 60mA before I started having problems. I re-adjusted it down to
> > > 60mA. Plate current still off scale.
> > >
> > > Plate voltage is about 925 volts without load.
> > >
> > > Ip in TUNE mode reads 130mA
> > >
> > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
bracket
> > > with the carrier control at approximately 9 o'clock position.
> > >
> > > The replacement tubes are Sylvania brand 6146B's.
> > >
> > >
> > > Kevin
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Kevin,
> > > > What does your ip meter show for idle bias in USB when you
key the
> > > > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > > > read in Tune mode? What does your plate voltage show? You
might want
> > > > to hook up a transformer saver while you figure this out. There is
> > > > directions on building one in the Files section by Walt N9WB.
> > > > What brand and number tubes did you install? The chinese
6146's are
> > > > known to Short/Flash so they are not a good choice.
> > > >
> > > > Gordon
> > > > ---
> > > >
> > > >
> > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > > > >
> > > > > Gordon - You are correct. I do mean plate current. Thanks for
> > > > > clearing that up. I was thinking of my SB-1000 amp and
> > refering to
> > > > > grid current.
> > > > >

> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > > >
> > > > > > Hi Kevin,
> > > > > > What do you mean " I keyed the radio and the Grid current went
> > > off the
> > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > How are you measuring Grid current while Keying the rig ?
> > > > > >
> > > > > > Just Curious and trying to get more info to help you out.
> > > > > >
> > > > > > Gordon
> > > > > > N6WK
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > I've done some research on this forum before making this
> > post and
> > > > > > > didn't run across a similar situation. I hope I've not
> > > overlooked
> > > > > > > something that has been addressed before.
> > > > > > >
> > > > > > > I recently purchased this 830 so I don't know the history on
> > it...
> > > > > > >
> > > > > > > I used it on the air and everything seemed to be working
> > fine and
> > > > > > > within specifications. An internal inspection revealed
> > > someone had
> > > > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > > > appropriate resistors and replaced them to avoid future
> > > problems.
> > > > > > > Rig still working FB after install.
> > > > > > >
> > > > > > > I noticed the tubes were of different manufacture, so I
> > > figured they
> > > > > > > were not a matched set. I went through the procedure and
> > > > neutralized
> > > > > > > the tubes in the event it had not been done.
Adjustment was
> > > > > required.
> > > > > > >
> > > > > > > After neutralization, I checked the output and dipped the

> plate
> > > > > > > current. Everything appeared within spec and working
> normally.
> > > > > > >
> > > > > > > I walked away from the bench and made it about three steps
> > when I
> > > > > > > heard an arc. I was hoping it didn't come from the 830,
> > but knew
> > > > > > > that it probably did.
> > > > > > > >
> > > > > > > I went back and keyed the radio. The grid current went off
> > > > scale. I
> > > > > > > looked and found my newly installed cathode resistors were
> > blown.
> > > > > > > >
> > > > > > > I assumed a tube had shorted. I checked the tubes with
> an ohm
> > > > meter
> > > > > > > and didn't find any shorts.
> > > > > > > >
> > > > > > > I ordered a new set of tubes and new resistors. They
arrived
> > > today
> > > > > > > and I installed them.
> > > > > > > >
> > > > > > > Operation appears the same. The grid current is still off
> > scale,
> > > > > > > regardless of band.
> > > > > > > >
> > > > > > > I am unable to find any visual evidence to indicate where
> > the arc
> > > > > > > occurred.
> > > > > > > >
> > > > > > > I've been ham for over 20 years, but this is my first hybrid
> > > > rig. I'm
> > > > > > > not experienced at troubleshooting tube type gear. I'd
> > > welcome any
> > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > >
> > > > > > > Assuming I get this problem hashed out, we'll move on to
> > > > another, less
> > > > > > > catastrophic, problem with the rig...
> > > > > > > >
> > > > > > > Prior to the problem with the excessive grid current
> occurring I
> > > > > > > noticed there was no TX and weak RX when the band switch
> was in
> > > > the 28
> > > > > > > MHz position, regardless of the position of the .5 MHz
> button.

> > > > Proper
> > > > > > > operation on all other postitions.
> > > > > > >
> > > > > > > Kevin Hunter - KA0I
> > > > > > > Holts Summit, MO
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9783. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 21:30:57 UTC
From: Gordon
Topic: 9760 Message: 9783

Ok, Great.
We'll diagnose this thing, component by component.. hi hi..

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...>
wrote:
>
> I checked R6 and R10. They are within spec.
>
> Kevin
>
>
> In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> > Ok next question, What do R7 and R8 ohm out at under the finals ? they
> > should be 100 ohm 1/2 watt. Did you replace those as well as the 20
> > ohm 1/2 watt resistors ?
> > Also, as Clif mentioned, check the resistors R6 and R10 in the final
> > section as they are the resistors for the Meter IP.
> > Also, how is the bandswitch coupler inside the Final cage? Is it
> > broken? Cracked ?
> > Can you take some voltage readings from the Final board for us? If
> > so, What is the voltage on the SG terminal, then on the DRV terminal
> > also the FG terminal.
> >
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - The idle bias is now up around 150 mA. I had it
adjusted to
> > > 60mA before I started having problems. I re-adjusted it down to
> > > 60mA. Plate current still off scale.
> > >
> > > Plate voltage is about 925 volts without load.
> > >
> > > Ip in TUNE mode reads 130mA
> > >
> > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
bracket
> > > with the carrier control at approximately 9 o'clock position.

> > >
> > > The replacement tubes are Sylvania brand 6146B's.
> > >
> > >
> > > Kevin
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Kevin,
> > > > What does your ip meter show for idle bias in USB when you
key the
> > > > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > > > read in Tune mode? What does your plate voltage show? You
might want
> > > > to hook up a transformer saver while you figure this out. There is
> > > > directions on building one in the Files section by Walt N9WB.
> > > > What brand and number tubes did you install? The chinese
6146's are
> > > > known to Short/Flash so they are not a good choice.
> > > >
> > > > Gordon
> > > > ---
> > > >
> > > >
> > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> > > > >
> > > > > Gordon - You are correct. I do mean plate current. Thanks for
> > > > > clearing that up. I was thinking of my SB-1000 amp and
> > refering to
> > > > > grid current.
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > > >
> > > > > > Hi Kevin,
> > > > > > What do you mean " I keyed the radio and the Grid current went
> > > off the
> > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > How are you measuring Grid current while Keying the rig ?
> > > > > >
> > > > > > Just Curious and trying to get more info to help you out.
> > > > > >
> > > > > > Gordon
> > > > > > N6WK
> > > > > >
> > > > > >
> > > > > >
```
```

> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > I've done some research on this forum before making this
> > post and
> > > > > > > didn't run across a similar situation. I hope I've not
> > > overlooked
> > > > > > > something that has been addressed before.
> > > > > > >
> > > > > > > I recently purchased this 830 so I don't know the history on
> > it...
> > > > > > >
> > > > > > > I used it on the air and everything seemed to be working
> > fine and
> > > > > > > within specifications. An internal inspection revealed
> > > someone had
> > > > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > > > appropriate resistors and replaced them to avoid future
> > > problems.
> > > > > > > Rig still working FB after install.
> > > > > > >
> > > > > > > I noticed the tubes were of different manufacture, so I
> > > figured they
> > > > > > > were not a matched set. I went through the procedure and
> > > > neutralized
> > > > > > > the tubes in the event it had not been done.
Adjustment was
> > > > > required.
> > > > > > >
> > > > > > > After neutralization, I checked the output and dipped the
> plate
> > > > > > > current. Everything appeared within spec and working
> normally.
> > > > > > >
> > > > > > > I walked away from the bench and made it about three steps
> > when I
> > > > > > > heard an arc. I was hoping it didn't come from the 830,
> > but knew
> > > > > > > that it probably did.
> > > > > > >
> > > > > > > I went back and keyed the radio. The grid current went off
> > > > scale. I
> > > > > > > looked and found my newly installed cathode resistors were
> > blown.
> > > > > > >
> > > > > > > I assumed a tube had shorted. I checked the tubes with

> an ohm
> > > > meter
> > > > > > > and didn't find any shorts.
> > > > > > >
> > > > > > > I ordered a new set of tubes and new resistors. They
arrived
> > > today
> > > > > > > and I installed them.
> > > > > > >
> > > > > > > Operation appears the same. The grid current is still off
> > scale,
> > > > > > > regardless of band.
> > > > > > >
> > > > > > > I am unable to find any visual evidence to indicate where
> > the arc
> > > > > > > occurred.
> > > > > > >
> > > > > > > I've been ham for over 20 years, but this is my first hybrid
> > > > rig. I'm
> > > > > > > not experienced at troubleshooting tube type gear. I'd
> > > welcome any
> > > > > > > theories or suggestions anyone cares to offer.
> > > > > > >
> > > > > > > Assuming I get this problem hashed out, we'll move on to
> > > > another, less
> > > > > > > catastrophic, problem with the rig...
> > > > > > >
> > > > > > > Prior to the problem with the excessive grid current
> occurring I
> > > > > > > noticed there was no TX and weak RX when the band switch
> was in
> > > > the 28
> > > > > > > MHz position, regardless of the position of the .5 MHz
> button.
> > > > Proper
> > > > > > > operation on all other postitions.
> > > > > > >
> > > > > > > Kevin Hunter - KA0I
> > > > > > > Holts Summit, MO
> > > > > > >
> > > > > > >
> > > > > > >
> > > > >
> > > >
> > >
> >
>

9784. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 21:45:38 UTC
From: Kevin Hunter
Topic: 9760 Message: 9784

SG = 267V
FG = -104V
DRV = I was able to see a very low level AC voltage, about 200mV. It appeared to be unaffected by meshing the drive capacitor.

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Kevin, ,
> lets start on any band in receive. I just want to get some base line
> figures. I would suggest doing it with the heaters on. Adfter you
> get those, we can evaluate them and go from there.
> Also, BE VERY CAREFUL, there are lethal Voltages in there as I am sure
> you are aware, even when just receiving. Always keep one hand behind
you.
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - I did replace R7 and R8 at the same time as I replaced the
> > others. I checked them out of circuit and they are still 100 ohms.
> > No signs of heating or cracking.
> >
> > I am familiar with the problem of the cracked shaft couplers on the
> > bandswitch. These don't show any signs of cracking. I assume
> > someone must have replaced them somewhere along the way.
> >
> > I will check R6 and R10.
> >
> > You might give me some guidance on checking those voltages on the
> > final board. I don't have any problem making the measurement, but
> > tell me what condition the transmitter should be in when I'm taking
> > the reading. I'm refering to things like mode switch position, TX or
> > RX, etc.
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> > > Ok next question, What do R7 and R8 ohm out at under the finals
? they
> > > should be 100 ohm 1/2 watt. Did you replace those as well as the 20
> > > ohm 1/2 watt resistors ?
> > > Also, as Clif mentioned, check the resistors R6 and R10 in the final

> > > section as they are the resistors for the Meter IP.
> > > Also, how is the bandswitch coupler inside the Final cage? Is it
> > > broken? Cracked ?
> > > Can you take some voltage readings from the Final board for us? If
> > > so, What is the voltage on the SG terminal, then on the DRV terminal
> > > also the FG terminal.
> > >
> > > Gordon
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > Gordon - The idle bias is now up around 150 mA. I had it
> adjusted to
> > > > 60mA before I started having problems. I re-adjusted it down to
> > > > 60mA. Plate current still off scale.
> > > >
> > > > Plate voltage is about 925 volts without load.
> > > >
> > > > Ip in TUNE mode reads 130mA
> > > >
> > > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
> bracket
> > > > with the carrier control at approximately 9 o'clock position.
> > > >
> > > > The replacement tubes are Sylvania brand 6146B's.
> > > >
> > > >
> > > > Kevin
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Kevin,
> > > > > What does your ip meter show for idle bias in USB when you
> key the
> > > > > mike ? Is it set to 60ma ? What does the ALC and the plate
current
> > > > > read in Tune mode? What does your plate voltage show? You
> might want
> > > > > to hook up a transformer saver while you figure this out.
There is
> > > > > directions on building one in the Files section by Walt N9WB.
> > > > > What brand and number tubes did you install? The chinese
> 6146's are
> > > > > known to Short/Flash so they are not a good choice.
> > > > >
> > > > > Gordon

> > > > > ---
> > > > >
> > > > >
> > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > > > > > >
> > > > > > Gordon - You are correct. I do mean plate current.
Thanks for
> > > > > > clearing that up. I was thinking of my SB-1000 amp and
> > > refering to
> > > > > > grid current.
> > > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > > > > >
> > > > > > > Hi Kevin,
> > > > > > > What do you mean " I keyed the radio and the Grid
current went
> > > > off the
> > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > How are you measuring Grid current while Keying the rig ?
> > > > > > >
> > > > > > > Just Curious and trying to get more info to help you out.
> > > > > > >
> > > > > > > Gordon
> > > > > > > N6WK
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > > wrote:
> > > > > > > >
> > > > > > > I've done some research on this forum before making this
> > > post and
> > > > > > > didn't run across a similar situation. I hope I've not
> > > overlooked
> > > > > > > something that has been addressed before.
> > > > > > > >
> > > > > > > I recently purchased this 830 so I don't know the
history on
> > > it...
> > > > > > > >
> > > > > > > I used it on the air and everything seemed to be working
> > > fine and
> > > > > > > within specifications. An internal inspection revealed
> > > someone had

> > > > > > > > done the "super size" cathode resistor mod. I
ordered the
> > > > > > > > appropriate resistors and replaced them to avoid future
> > > > problems.
> > > > > > > > Rig still working FB after install.
> > > > > > > >
> > > > > > > > I noticed the tubes were of different manufacture, so I
> > > > figured they
> > > > > > > > were not a matched set. I went through the procedure and
> > > > > neutralized
> > > > > > > > the tubes in the event it had not been done.
> Adjustment was
> > > > > > required.
> > > > > > > >
> > > > > > > > After neutralization, I checked the output and dipped the
> > plate
> > > > > > > > current. Everything appeared within spec and working
> > normally.
> > > > > > > >
> > > > > > > > I walked away from the bench and made it about three steps
> > > when I
> > > > > > > > heard an arc. I was hoping it didn't come from the 830,
> > > but knew
> > > > > > > > that it probably did.
> > > > > > > >
> > > > > > > > I went back and keyed the radio. The grid current
went off
> > > > > scale. I
> > > > > > > > looked and found my newly installed cathode resistors were
> > > blown.
> > > > > > > >
> > > > > > > > I assumed a tube had shorted. I checked the tubes with
> > an ohm
> > > > > > meter
> > > > > > > > and didn't find any shorts.
> > > > > > > >
> > > > > > > > I ordered a new set of tubes and new resistors. They
> arrived
> > > > today
> > > > > > > > and I installed them.
> > > > > > > >
> > > > > > > > Operation appears the same. The grid current is
still off
> > > scale,
> > > > > > > > regardless of band.
> > > > > > > >
> > > > > > > > I am unable to find any visual evidence to indicate where
> > > the arc
> > > > > > > > occurred.
> > > > > > > >

> > > > > > > > I've been ham for over 20 years, but this is my first
hybrid
> > > > > rig. I'm
> > > > > > > > > not experienced at troubleshooting tube type gear. I'd
> > > > welcome any
> > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > >
> > > > > > > > > Assuming I get this problem hashed out, we'll move on to
> > > > > another, less
> > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > >
> > > > > > > > > Prior to the problem with the excessive grid current
> > occurring I
> > > > > > > > > noticed there was no TX and weak RX when the band switch
> > was in
> > > > > the 28
> > > > > > > > > MHz position, regardless of the position of the .5 MHz
> > button.
> > > > > Proper
> > > > > > > > > operation on all other postitions.
> > > > > > > > >
> > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > Holts Summit, MO
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9785. Alignment Tools

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 21:40:40 UTC
From: Gordon
Topic: 9785 Message: 9785

My alignment tools are all plastic and are getting well worn. Can someone suggest a place that sells good quality non-conductive tools for adjusting Coils and Caps ? Anyone tried the Ceramic tools ?
I know better then to try to use metal (The slugs break) and conductive bites ..

Gorodn

9786. RE: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 21:19:45 UTC
From: Walter Milton
Topic: 9703 Message: 9786

Rick,

If you have any extra left. I would like to get enough to do the mod on my TS-830S.

Thanks,
Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick May
Sent: Sunday, October 01, 2006 3:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Gordon,

When I ordered them, I stipulated to the guy on the phone I wanted 1% tolerance if he had them. I had wanted 1N6263 diodes as listed in AG6K's article, but he told me the 1N5711's were very good...and had a higher voltage rating. He was right ...The junction resistance and capacitance differences are nill. I used a B&K 810C and a Fluke 77 which are supposed to be accurate to .5% (that is 'point' 5%) so the diodes are matched close enough for our use. The only problem ordering them is dealing with the minimum order most electronic sellers have. You probably won't need 25 or 50 of them.

73' Rick KC0HH

Gordon <n6wk@... <mailto:n6wk%40n6wk.com> > wrote: Thanks Rick,
I also appreciate you selling me the Diodes.
Walt was wondering if they were matched. I didn't check them, I just installed them and checked the Carrier adjustment. I had to tweak L19 and L20 just a bit but the Carrier balance was still right on. I am now debating whether to go ahead and swap out the Balanced Modulator diodes as well.
Were the Diodes matched ? They sure do work nice in the 830.

Thanks again,
Gordon
N6WK

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> I am glad you saw the same improvement I did. I have been amazed
since I did the Shottkey mod on my 830S....The noise floor is
definitely better and the 830S' white noise level doesn't give me a
headache while listening with headphones now. I think after you make
the diode swap, the lack of phase noise in the 830S' receiver lets you
hear more signals.....The Shottkey diodes are a cheap fix.
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
>
> Gordon <n6wk@...> wrote: Today, I
opened up my TS-830S and decided to do the Schottky Diode Mod
> on the Product detector. I had already opened up the Audio by
> replacing C-106 with a .0015 cap . I also had replaced the Band switch
> Coupler with the ones from K4EAA.
> I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
> I then adjusted the voltage across the resistor with L-19 and L-20 to
> 600 Mv.
> I then tuned up on 20 meters. I worked a station in Portugal and
> Italy. They were strong and I received great reports. I then tuned
> across 3XM6JR. He was weak but workable. I tried calling a few times
> with the 830 barefoot, but was not able to break through the East
> Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
> to work him. To my surprise, I could NOT even copy him with the
> TS-2000. I switched back to the 830 and there he was. Still weak, but
> I could copy him, then back to the TS-2000 and he was too low in the
> Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> My Conclusion is, This Mod on the 830 is a great thing. It seems to
> lower the noise floor yet the response is Excellent.
> I might now have to replace some diodes in the TS-2000.
> I am impressed. I am now ready to sell this TS-830S (Gold Label) and
> look for another one to repair. After all, Repairing these rigs is my
> Hobby !
>
> 73,
> Gordon
> N6WK
>
>
>
>
>
>

>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9787. Re: [TS-520_820_530_830] Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 22:30:21 UTC
From: Jim Stoneback
Topic: 9685 Message: 9787

Gordon made a believer of me; check the rectifier board components. When I was checking the sidetone circuit, I removed each component and measured it either with DVM or my capacitor meter. The zener I checked by setting up a little circuit on the bench to see if it regulated at 9 vdc. I was really discouraged when all the parts checked out OK. I went ahead and replaced the transistor and zener diode anyway, to no avail until I checked and found R13 open. Now everything works hunky dorry. And I saved the cost of a repair plus 2way shipping!

73,

Jim K4AXF

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 02, 2006 7:55 PM
Subject: [TS-520_820_530_830] Re: TS830 Problem

Yes Pete,
The components on the Recifier board are common failures. I have
found many open or changed value components there on the 830 and the
820. It is always a good place to start looking when diagnosing a
problem on these rigs.
I had suggested that Jim check R-12 and R-13. He found R-13 was
open. He replaced it and his rig is working great again.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "pgweber" <pgweber@...> wrote:
>
> My 830s developed a raspy sidetone that was caused by a bad resistor
> on the rectifier board. In my case the resistor didn't open, it
> just changed value. I believe this resistor supplied the STB
> voltage. The resistor failed because of a QRO mod someone had done
> before I owned the rig. Hope this helps.
> 73
> Pete KE5CTT
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > I suspect the problem is in the sidetone oscillator keying circuit
> or
> > the sidetone oscillator itself.
> >
> > My recommendations are to use an o'scope. Ohm meters can't tell
> > whether a capacitor is good or not. An ohm meter usually can only

> > detect a shorted capacitor. Ohm meters can not provide sufficient
> > voltage to show capacitor leakage. There are, however, DVM's that
> can
> > tell the capacitance value but the capacitor must be out of the
> > circuit. I don't trust them when the capacitor is in the circuit,
> too
> > many other components in the circuit that can contribute to
> confusion
> > with the reading.
> >
> > Checking transistors in a circuit is difficult. Normally, for
> example,
> > a PNP transistor will have a more positive voltage on the collector
> > when it is not conducting but a much less positive voltage when it
> is
> > conducting. The opposite voltage polarity is true with an NPN
> > transistor. The arrow on the component symbol determines the type
> of
> > transistor, PNP or NPN.
> >
> > The base biasing circuit should show a change with keying. If it
> does
> > but the collector voltage remains unchanged, then more than likely
> the
> > transistor is bad. This can be seen very easily with an o'scope.
> >
> > Another helpful hint is to understand how the circuit works before
> > attempting to troubleshoot. Most Kenwood manuals have a section
> that
> > discribes the circuit operation which may point you in the right
> > direction.
> >
> > I am, however, curious about the TP1 audio injection you are doing.
> > Maybe you could provide a bit more information. Also some
> additional
> > information outlining the steps you are taking to determine failed
> > components etc. We're all here to help.
> >
> > If I can further assist you, feel free to drop me an email.
> >
> >
> > 73's,
> >
> > Mike
> > W5RKL
> >
> >
> >
> >
> >

> > --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> > >
> > > Jim, this may sound a little silly comming from me another 830
> > owner, but have you gone thru and clened the 830 recently. Many
> times
> > that helps resolve the problems for me in both my 830's in the
> past.
> > It may be worth a try, before you send it away. I find a good
> cleaning
> > has helped me see the interior and know it well on a routine basis.
> > You may already have and I just don't know it. Just a suggestion.
> > >
> > > Jim Stoneback <jstonebk@> wrote: One last try before I
> > ship it to a repair shop. Has anyone fixed this
> > > problem before?
> > >
> > > My TS830s has no sidetone, thus no semi-QSK CW.
> > >
> > > With MON switch on, key depressed, there is no sine wave at TP1,
> no
> > qsk, no
> > > CW output.
> > >
> > > I injected a tone at TP1 and get sidetone, semi-qsk action and CW
> > output.
> > >
> > > I checked all the components in the sidetone circuit with no bad
> > components
> > > found; replaced transistor and zener anyway, to no avail. My
> > confidence is
> > > shaken. Help!
> > >
> > > 73,
> > >
> > > Jim Stoneback
> > > K4AXF
> > > http://www.qsl.net/k4axf
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >

>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/461 - Release Date: 10/2/2006

[Non-text portions of this message have been removed]

9788. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 22:30:11 UTC
From: Gordon
Topic: 9760 Message: 9788

Hi Keith,
Ok, Those voltages look OK in receive. Just what I would expect to
see in a normal working 830.
Did you build the Transformer saver?
The reason I ask is that I want you to take some measurements while in
Transmit mode Very quickly, But I don't want you to burn anything up.
I also forgot, Do you get ALC readings in tune? I think you said Yes
before. Next question, what kind of Ouput do you get when it's all
tuned up?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...>
wrote:
>
> SG = 267V
> FG = -104V
> DRV = I was able to see a very low level AC voltage, about 200mV. It
> appeared to be unaffected by meshing the drive capacitor.
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Kevin, ,
> > lets start on any band in receive. I just want to get some base line
> > figures. I would suggest doing it with the heaters on. Adfter you
> > get those, we can evaluate them and go from there.
> > Also, BE VERY CAREFUL, there are lethal Voltages in there as I am sure
> > you are aware, even when just receiving. Always keep one hand behind
> you.
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - I did replace R7 and R8 at the same time as I replaced the
> > > others. I checked them out of circuit and they are still 100 ohms.
> > > No signs of heating or cracking.
> > >
> > > I am familiar with the problem of the cracked shaft couplers on the
> > > bandswitch. These don't show any signs of cracking. I assume
> > > someone must have replaced them somewhere along the way.
> > >
> > > I will check R6 and R10.
> > >

> > > You might give me some guidance on checking those voltages on the
> > > final board. I don't have any problem making the measurement, but
> > > tell me what condition the transmitter should be in when I'm taking
> > > the reading. I'm refering to things like mode switch position,
TX or
> > > RX, etc.
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Ok, Yes that is High. My 830 is only running 75 ma in tune
position.
> > > > Ok next question, What do R7 and R8 ohm out at under the finals
> ? they
> > > > should be 100 ohm 1/2 watt. Did you replace those as well as
the 20
> > > > ohm 1/2 watt resistors ?
> > > > Also, as Clif mentioned, check the resistors R6 and R10 in the
final
> > > > section as they are the resistors for the Meter IP.
> > > > Also, how is the bandswitch coupler inside the Final cage? Is it
> > > > broken? Cracked ?
> > > > Can you take some voltage readings from the Final board for
us? If
> > > > so, What is the voltage on the SG terminal, then on the DRV
terminal
> > > > also the FG terminal.
> > > >
> > > > Gordon
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > > wrote:
> > > > >
> > > > > Gordon - The idle bias is now up around 150 mA. I had it
> > adjusted to
> > > > > 60mA before I started having problems. I re-adjusted it
down to
> > > > > 60mA. Plate current still off scale.
> > > > >
> > > > > Plate voltage is about 925 volts without load.
> > > > >
> > > > > Ip in TUNE mode reads 130mA
> > > > >
> > > > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
> > bracket
> > > > > with the carrier control at approximately 9 o'clock position.
> > > > >
> > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > >

> > > > >
> > > > > Kevin
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > > >
> > > > > > Kevin,
> > > > > > What does your ip meter show for idle bias in USB when you
> > key the
> > > > > > mike ? Is it set to 60ma ? What does the ALC and the plate
> current
> > > > > > read in Tune mode? What does your plate voltage show? You
> > might want
> > > > > > to hook up a transformer saver while you figure this out.
> There is
> > > > > > directions on building one in the Files section by Walt N9WB.
> > > > > > What brand and number tubes did you install? The chinese
> > 6146's are
> > > > > > known to Short/Flash so they are not a good choice.
> > > > > >
> > > > > > Gordon
> > > > > > ---
> > > > > >
> > > > > >
> > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > > > > >
> > > > > > > Gordon - You are correct. I do mean plate current.
> Thanks for
> > > > > > > clearing that up. I was thinking of my SB-1000 amp and
> > > > refering to
> > > > > > > grid current.
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> > wrote:
> > > > > > > >
> > > > > > > > Hi Kevin,
> > > > > > > > What do you mean " I keyed the radio and the Grid
> current went
> > > > > off the
> > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > How are you measuring Grid current while Keying the rig ?
> > > > > > > >
> > > > > > > > Just Curious and trying to get more info to help you out.
> > > > > > > >
> > > > > > > > Gordon
> > > > > > > > N6WK
> > > > > > > >

> > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > > <kj558@>
> > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > I've done some research on this forum before making this
> > > > post and
> > > > > > > > > didn't run across a similar situation. I hope I've not
> > > > overlooked
> > > > > > > > > something that has been addressed before.
> > > > > > > > >
> > > > > > > > > I recently purchased this 830 so I don't know the
> history on
> > > > it...
> > > > > > > > >
> > > > > > > > > I used it on the air and everything seemed to be working
> > > > fine and
> > > > > > > > > within specifications. An internal inspection revealed
> > > > someone had
> > > > > > > > > done the "super size" cathode resistor mod. I
> ordered the
> > > > > > > > > appropriate resistors and replaced them to avoid future
> > > > problems.
> > > > > > > > > Rig still working FB after install.
> > > > > > > > >
> > > > > > > > > I noticed the tubes were of different manufacture, so I
> > > > figured they
> > > > > > > > > were not a matched set. I went through the
procedure and
> > > > neutralized
> > > > > > > > > the tubes in the event it had not been done.
> > Adjustment was
> > > > > > > > required.
> > > > > > > > >
> > > > > > > > > After neutralization, I checked the output and
dipped the
> > > plate
> > > > > > > > > current. Everything appeared within spec and working
> > > normally.
> > > > > > > > >
> > > > > > > > > I walked away from the bench and made it about three
steps
> > > > when I
> > > > > > > > > heard an arc. I was hoping it didn't come from the
830,
> > > > but knew

> > > > > > > > > that it probably did.
> > > > > > > > > >
> > > > > > > > > > I went back and keyed the radio. The grid current
> went off
> > > > > > scale. I
> > > > > > > > > > looked and found my newly installed cathode
resistors were
> > > > blown.
> > > > > > > > > >
> > > > > > > > > > I assumed a tube had shorted. I checked the tubes with
> > > an ohm
> > > > > > meter
> > > > > > > > > > and didn't find any shorts.
> > > > > > > > > >
> > > > > > > > > > I ordered a new set of tubes and new resistors. They
> > arrived
> > > > > today
> > > > > > > > > > and I installed them.
> > > > > > > > > >
> > > > > > > > > > Operation appears the same. The grid current is
> still off
> > > > scale,
> > > > > > > > > > regardless of band.
> > > > > > > > > >
> > > > > > > > > > I am unable to find any visual evidence to indicate
where
> > > > the arc
> > > > > > > > > > occurred.
> > > > > > > > > >
> > > > > > > > > > I've been ham for over 20 years, but this is my first
> hybrid
> > > > > > rig. I'm
> > > > > > > > > > not experienced at troubleshooting tube type gear. I'd
> > > > > welcome any
> > > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > > >
> > > > > > > > > > Assuming I get this problem hashed out, we'll move on to
> > > > > another, less
> > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > >
> > > > > > > > > > Prior to the problem with the excessive grid current
> > > occurring I
> > > > > > > > > > noticed there was no TX and weak RX when the band switch
> > > was in
> > > > > > the 28
> > > > > > > > > > MHz position, regardless of the position of the .5 MHz
> > > button.
> > > > > > Proper
> > > > > > > > > > operation on all other postitions.
> > > > > > > > > >

> > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > Holts Summit, MO
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > >
>

9789. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 22:32:57 UTC
From: Gordon
Topic: 9703 Message: 9789

Rick, Where did you purchase them from? I might just make an order, then I can sell them back to the guys in small quantities ,as you are doing. Not for Profit, just for convenience and to help out.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton" <wmilton@...> wrote:
>
> Rick,
>
> If you have any extra left. I would like to get enough to do the mod on my
> TS-830S.
>
> Thanks,
> Walt, KA2NJF
> Psalm 1
> A Child of the living God
> Walt
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick May
> Sent: Sunday, October 01, 2006 3:58 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
>
> Hi Gordon,
>
> When I ordered them, I stipulated to the guy on the phone I wanted 1%
> tolerance if he had them. I had wanted 1N6263 diodes as listed in AG6K's
> article, but he told me the 1N5711's were very good...and had a higher
> voltage rating. He was right ...The junction resistance and capacitance
> differences are nill. I used a B&K 810C and a Fluke 77 which are supposed to
> be accurate to .5% (that is 'point' 5%) so the diodes are matched close
> enough for our use. The only problem ordering them is dealing with the
> minimum order most electronic sellers have. You probably won't need 25 or 50

> of them.
>
> 73' Rick KC0HH
>
> Gordon <n6wk@... <mailto:n6wk%40n6wk.com> > wrote: Thanks Rick,
> I also appreciate you selling me the Diodes.
> Walt was wondering if they were matched. I didn't check them, I just
> installed them and checked the Carrier adjustment. I had to tweak L19
> and L20 just a bit but the Carrier balance was still right on. I am
> now debating whether to go ahead and swap out the Balanced Modulator
> diodes as well.
> Were the Diodes matched ? They sure do work nice in the 830.
>
> Thanks again,
> Gordon
> N6WK
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Hi Gordon,
> >
> > I am glad you saw the same improvement I did. I have been amazed
> since I did the Shottkey mod on my 830S....The noise floor is
> definitely better and the 830S' white noise level doesn't give me a
> headache while listening with headphones now. I think after you make
> the diode swap, the lack of phase noise in the 830S' receiver lets you
> hear more signals.....The Shottkey diodes are a cheap fix.
> >
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> >
> >
> > Gordon <n6wk@> wrote: Today, I
> opened up my TS-830S and decided to do the Schottky Diode Mod
> > on the Product detector. I had already opened up the Audio by
> > replacing C-106 with a .0015 cap . I also had replaced the Band switch
> > Coupler with the ones from K4EAA.
> > I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
> > I then adjusted the voltage across the resistor with L-19 and L-20 to
> > 600 Mv.
> > I then tuned up on 20 meters. I worked a station in Portugal and
> > Italy. They were strong and I received great reports. I then tuned
> > across 3XM6JR. He was weak but workable. I tried calling a few times
> > with the 830 barefoot, but was not able to break through the East
> > Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
> > to work him. To my surprise, I could NOT even copy him with the
> > TS-2000. I switched back to the 830 and there he was. Still weak, but

> > I could copy him, then back to the TS-2000 and he was too low in the
> > Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> > My Conclusion is, This Mod on the 830 is a great thing. It seems to
> > lower the noise floor yet the response is Excellent.
> > I might now have to replace some diodes in the TS-2000.
> > I am impressed. I am now ready to sell this TS-830S (Gold Label) and
> > look for another one to repair. After all, Repairing these rigs is my
> > Hobby !
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> >
> >
> > ---
> > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2¢/min or less.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
> countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9790. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 22:36:29 UTC
From: Gordon
Topic: 9685 Message: 9790

And you have the feeling of Satisfaction of Fixing your own Rig. It's a GREAT feeling.
I was thinking of having Kevin check the components on the Rectifier Board. It only takes a few minutes and is well worth the effort.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback" <jstonebk@...> wrote:
>
> Gordon made a believer of me; check the rectifier board components. When I was checking the sidetone circuit, I removed each component and measured it either with DVM or my capacitor meter. The zener I checked by setting up a little circuit on the bench to see if it regulated at 9 vdc. I was really discouraged when all the parts checked out OK. I went ahead and replaced the transistor and zener diode anyway, to no avail until I checked and found R13 open. Now everything works hunky dorry. And I saved the cost of a repair plus 2way shipping!
>
> 73,
>
> Jim K4AXF
>
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 02, 2006 7:55 PM
> Subject: [TS-520_820_530_830] Re: TS830 Problem
>
>
>
> Yes Pete,
> The components on the Recifier board are common failures. I have
> found many open or changed value components there on the 830 and the
> 820. It is always a good place to start looking when diagnosing a
> problem on these rigs.
> I had suggested that Jim check R-12 and R-13. He found R-13 was
> open. He replaced it and his rig is working great again.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "pgweber" <pgweber@> wrote:
> >

> > My 830s developed a raspy sidetone that was caused by a bad
resistor
> > on the rectifier board. In my case the resistor didn't open, it
> > just changed value. I believe this resistor supplied the STB
> > voltage. The resistor failed because of a QRO mod someone had done
> > before I owned the rig. Hope this helps.
> > 73
> > Pete KE5CTT
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > > I suspect the problem is in the sidetone oscillator keying
circuit
> > or
> > > the sidetone oscillator itself.
> > >
> > > My recommendations are to use an o'scope. Ohm meters can't tell
> > > whether a capacitor is good or not. An ohm meter usually can only
> > > detect a shorted capacitor. Ohm meters can not provide sufficient
> > > voltage to show capacitor leakage. There are, however, DVM's that
> > can
> > > tell the capacitance value but the capacitor must be out of the
> > > circuit. I don't trust them when the capacitor is in the circuit,
> > too
> > > many other components in the circuit that can contribute to
> > confusion
> > > with the reading.
> > >
> > > Checking transistors in a circuit is difficult. Normally, for
> > example,
> > > a PNP transistor will have a more positive voltage on the
collector
> > > when it is not conducting but a much less positive voltage
when it
> > is
> > > conducting. The opposite voltage polarity is true with an NPN
> > > transistor. The arrow on the component symbol determines the type
> > of
> > > transistor, PNP or NPN.
> > >
> > > The base biasing circuit should show a change with keying. If it
> > does
> > > but the collector voltage remains unchanged, then more than
likely
> > the
> > > transistor is bad. This can be seen very easily with an o'scope.
> > >
> > > Another helpful hint is to understand how the circuit works before
> > > attempting to troubleshoot. Most Kenwood manuals have a section
> > that

> > > discribes the circuit operation which may point you in the right
> > > direction.
> > >
> > > I am, however, curious about the TP1 audio injection you are
doing.
> > > Maybe you could provide a bit more information. Also some
> > additional
> > > information outlining the steps you are taking to determine failed
> > > components etc. We're all here to help.
> > >
> > > If I can further assist you, feel free to drop me an email.
> > >
> > >
> > > 73's,
> > >
> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> > wrote:
> > > >
> > > > Jim, this may sound a little silly comming from me another 830
> > > owner, but have you gone thru and clened the 830 recently. Many
> > times
> > > that helps resolve the problems for me in both my 830's in the
> > past.
> > > It may be worth a try, before you send it away. I find a good
> > cleaning
> > > has helped me see the interior and know it well on a routine
basis.
> > > You may already have and I just don't know it. Just a suggestion.
> > > >
> > > > Jim Stoneback <jstonebk@> wrote: One last try before I
> > > ship it to a repair shop. Has anyone fixed this
> > > > problem before?
> > > >
> > > > My TS830s has no sidetone, thus no semi-QSK CW.
> > > >
> > > > With MON switch on, key depressed, there is no sine wave at
TP1,
> > no
> > > qsk, no
> > > > CW output.
> > > >
> > > > I injected a tone at TP1 and get sidetone, semi-qsk action
and CW

> > > output.
> > > >
> > > > I checked all the components in the sidetone circuit with no bad
> > > components
> > > > found; replaced transistor and zener anyway, to no avail. My
> > > confidence is
> > > > shaken. Help!
> > > >
> > > > 73,
> > > >
> > > > Jim Stoneback
> > > > K4AXF
> > > > http://www.qsl.net/k4axf
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > ---------------------------------
> > > > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/461 - Release Date:
10/2/2006
>
>
> [Non-text portions of this message have been removed]
>

9791. RE: [TS-520_820_530_830] TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 22:54:29 UTC
From: Darwin, Keith
Topic: 9775 Message: 9791

No, I don't think that is reasonable - it is a bit too low :-)

- Keith KD1E -

From: TS-520_820_530_830@yahoogroups.com on behalf of David Rust
Sent: Tue 10/3/2006 3:31 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS830s

Guys, I ran across an 830s in VERY NICE condition with new tubes but low output. Priced at $250. Is that reasonable? I need another radio like a knot on the head, but I would like to have an 830s.

73 Dave W0DLR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

9792. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 23:45:47 UTC
From: Kevin Hunter
Topic: 9760 Message: 9792

Gordon - I did build the transformer saver.

Here are the voltages...

SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE position on TX.

FG= -64V in LSB or TUNE Position during TX

DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX

As for actual output. I can't answer that. Since the plate current goes off scale when I key it in CW mode, I've never left it keyed more than about half a second.

ALC appears to be within spec in the TUNE position.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Keith,
> Ok, Those voltages look OK in receive. Just what I would expect to
> see in a normal working 830.
> Did you build the Transformer saver?
> The reason I ask is that I want you to take some measurements while in
> Transmit mode Very quickly, But I don't want you to burn anything up.
> I also forgot, Do you get ALC readings in tune? I think you said Yes
> before. Next question, what kind of Ouput do you get when it's all
> tuned up?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > SG = 267V
> > FG = -104V
> > DRV = I was able to see a very low level AC voltage, about 200mV. It
> > appeared to be unaffected by meshing the drive capacitor.
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Kevin, ,
> > > lets start on any band in receive. I just want to get some base line
> > > figures. I would suggest doing it with the heaters on. Adfter you
> > > get those, we can evaluate them and go from there.

> > > Also, BE VERY CAREFUL, there are lethal Voltages in there as I
am sure
> > > you are aware, even when just receiving. Always keep one hand behind
> > you.
> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > Gordon - I did replace R7 and R8 at the same time as I
replaced the
> > > > others. I checked them out of circuit and they are still 100
ohms.
> > > > No signs of heating or cracking.
> > > >
> > > > I am familiar with the problem of the cracked shaft couplers
on the
> > > > bandswitch. These don't show any signs of cracking. I assume
> > > > someone must have replaced them somewhere along the way.
> > > >
> > > > I will check R6 and R10.
> > > >
> > > > You might give me some guidance on checking those voltages on the
> > > > final board. I don't have any problem making the
measurement, but
> > > > tell me what condition the transmitter should be in when I'm
taking
> > > > the reading. I'm refering to things like mode switch position,
> TX or
> > > > RX, etc.
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Ok, Yes that is High. My 830 is only running 75 ma in tune
> position.
> > > > > Ok next question, What do R7 and R8 ohm out at under the finals
> > ? they
> > > > > should be 100 ohm 1/2 watt. Did you replace those as well as
> the 20
> > > > > ohm 1/2 watt resistors ?
> > > > > Also, as Clif mentioned, check the resistors R6 and R10 in the
> final
> > > > > section as they are the resistors for the Meter IP.
> > > > > Also, how is the bandswitch coupler inside the Final cage? Is it
> > > > > broken? Cracked ?
> > > > > Can you take some voltage readings from the Final board for
> us? If
> > > > > so, What is the voltage on the SG terminal, then on the DRV

> terminal
> > > > > also the FG terminal.
> > > > >
> > > > > Gordon
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > > wrote:
> > > > > >
> > > > > > Gordon - The idle bias is now up around 150 mA. I had it
> > > adjusted to
> > > > > > 60mA before I started having problems. I re-adjusted it
> down to
> > > > > > 60mA. Plate current still off scale.
> > > > > >
> > > > > > Plate voltage is about 925 volts without load.
> > > > > >
> > > > > > Ip in TUNE mode reads 130mA
> > > > > >
> > > > > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
> > > bracket
> > > > > > with the carrier control at approximately 9 o'clock position.
> > > > > >
> > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > >
> > > > > >
> > > > > > Kevin
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > > > >
> > > > > > > Kevin,
> > > > > > > What does your ip meter show for idle bias in USB when you
> > > key the
> > > > > > > mike ? Is it set to 60ma ? What does the ALC and the plate
> > current
> > > > > > > read in Tune mode? What does your plate voltage show? You
> > > might want
> > > > > > > to hook up a transformer saver while you figure this out.
> > There is
> > > > > > > directions on building one in the Files section by Walt
N9WB.
> > > > > > > What brand and number tubes did you install? The chinese
> > > 6146's are
> > > > > > > known to Short/Flash so they are not a good choice.
> > > > > > >
> > > > > > > Gordon

> > > > > > > ---
> > > > > > > >
> > > > > > > >
> > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > wrote:
> > > > > > > > >
> > > > > > > > > Gordon - You are correct. I do mean plate current.
> > Thanks for
> > > > > > > > > clearing that up. I was thinking of my SB-1000 amp and
> > > > > refering to
> > > > > > > > > grid current.
> > > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > > wrote:
> > > > > > > > > >
> > > > > > > > > Hi Kevin,
> > > > > > > > > What do you mean " I keyed the radio and the Grid
> > current went
> > > > > > off the
> > > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > > How are you measuring Grid current while Keying the
rig ?
> > > > > > > > > >
> > > > > > > > > Just Curious and trying to get more info to help you
out.
> > > > > > > > > >
> > > > > > > > > Gordon
> > > > > > > > > N6WK
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > > <kj558@>
> > > > > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > I've done some research on this forum before
making this
> > > > > post and
> > > > > > > > > didn't run across a similar situation. I hope
I've not
> > > > > overlooked
> > > > > > > > > something that has been addressed before.
> > > > > > > > > >
> > > > > > > > > I recently purchased this 830 so I don't know the

> > history on
> > > > > it...
> > > > > > > > > >
> > > > > > > > > > I used it on the air and everything seemed to be
working
> > > > > fine and
> > > > > > > > > > within specifications. An internal inspection
revealed
> > > > > someone had
> > > > > > > > > > done the "super size" cathode resistor mod. I
> > ordered the
> > > > > > > > > > appropriate resistors and replaced them to avoid
future
> > > > > problems.
> > > > > > > > > > Rig still working FB after install.
> > > > > > > > > >
> > > > > > > > > > I noticed the tubes were of different manufacture,
so I
> > > > > figured they
> > > > > > > > > > were not a matched set. I went through the
> procedure and
> > > > > neutralized
> > > > > > > > > > the tubes in the event it had not been done.
> > > Adjustment was
> > > > > > > > required.
> > > > > > > > > >
> > > > > > > > > > After neutralization, I checked the output and
> dipped the
> > > > plate
> > > > > > > > > > current. Everything appeared within spec and working
> > > > normally.
> > > > > > > > > >
> > > > > > > > > > I walked away from the bench and made it about three
> steps
> > > > > when I
> > > > > > > > > > heard an arc. I was hoping it didn't come from the
> 830,
> > > > > but knew
> > > > > > > > > > that it probably did.
> > > > > > > > > >
> > > > > > > > > > I went back and keyed the radio. The grid current
> > went off
> > > > > > > scale. I
> > > > > > > > > > looked and found my newly installed cathode
> resistors were
> > > > > blown.
> > > > > > > > > >
> > > > > > > > > > I assumed a tube had shorted. I checked the
tubes with
> > > > an ohm

> > > > > > > meter
> > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > >
> > > > > > > > > > I ordered a new set of tubes and new resistors. They
> > > arrived
> > > > > > today
> > > > > > > > > > and I installed them.
> > > > > > > > > > >
> > > > > > > > > > Operation appears the same. The grid current is
> > still off
> > > > > scale,
> > > > > > > > > > regardless of band.
> > > > > > > > > > >
> > > > > > > > > > I am unable to find any visual evidence to indicate
> where
> > > > > the arc
> > > > > > > > > > occurred.
> > > > > > > > > > >
> > > > > > > > > > I've been ham for over 20 years, but this is my first
> > hybrid
> > > > > > rig. I'm
> > > > > > > > > > not experienced at troubleshooting tube type gear.
I'd
> > > > > > welcome any
> > > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > > > >
> > > > > > > > > > Assuming I get this problem hashed out, we'll move
on to
> > > > > > another, less
> > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > >
> > > > > > > > > > Prior to the problem with the excessive grid current
> > > > occurring I
> > > > > > > > > > noticed there was no TX and weak RX when the band
switch
> > > > was in
> > > > > > > > the 28
> > > > > > > > > > MHz position, regardless of the position of the .5 MHz
> > > > button.
> > > > > > > > Proper
> > > > > > > > > > operation on all other postitions.
> > > > > > > > > > >
> > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > Holts Summit, MO
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >

> > > >
> > >
> >
>

9793. Re: [TS-520_820_530_830] Re: TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-03 23:45:07 UTC
From: David Rust
Topic: 9775 Message: 9793

Gordon.....

Yes,
That is a reasonable price for a Very Nice 830 with a minor Problem.
Buy it, we'll help you fix it.

I'll take it up with my accounting department, (a/k/a my wife) and see how this all plays out. I appreciate the offer to help.
Dave

[Non-text portions of this message have been removed]

9794. Re: Alignment Tools

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 00:25:34 UTC
From: Clif
Topic: 9785 Message: 9794

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> My alignment tools are all plastic and are getting well worn. Can
> someone suggest a place that sells good quality non-conductive tools
> for adjusting Coils and Caps ? Anyone tried the Ceramic tools ?
> I know better then to try to use metal (The slugs break) and
> conductive bites ..
>
> Gorodn
>

I've been using the ceramics for about 20 years and love them. I still have the original set (4 sizes) I bought from KW plus several spares as well as some aftermarket. The only way to hurt them is to drop them. I use a nylon w/metal tip for the trimmer caps.

I should note these are for the coils that use a screwdriver type not hex. The 520 coils are a different animal.

C;if

9795. Re: TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 00:43:09 UTC
From: Gordon
Topic: 9775 Message: 9795

David,
If your accounting Department won't allow you to purchase it, How about telling me where I might ! I always keep a "RADIO" slush fund going... :-)

Thanks,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Gordon.....
>
> Yes,
> That is a reasonable price for a Very Nice 830 with a minor Problem.
> Buy it, we'll help you fix it.
>
> I'll take it up with my accounting department, (a/k/a my wife) and see how this all plays out. I appreciate the offer to help.
> Dave
>
>
> [Non-text portions of this message have been removed]
>

9796. Re: [TS-520_820_530_830] Re: TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 00:58:30 UTC
From: David Rust
Topic: 9775 Message: 9796

Gordon, I will probably go ahead and get it, but if the deal falls apart I will let you know. Thanks for the reply.
Dave W0DLR

[Non-text portions of this message have been removed]

9797. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 01:08:44 UTC
From: Gordon
Topic: 9760 Message: 9797

Hmmm,
Very Interesting. I checked the 830 I have here and here is what I read. The SG in receive is 235 in USB and the FG is -92 USB in RX In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and 85 in tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
Your Voltages appear higher across the Board.
Let me study the schematic some more and get back to you.
Perhaps some of the other Guys on here have some Ideas also. I am puzzled on this. If you back the Carrier control off, can you get the plate current to stop pegging or does the rig appear to take off on its own ?? I am starting to wonder If clif was on to something in the Meter circuit, although you stated that R6 and r10 checked OK.
Does your light bulb (in the Transformer saver) Glow Really bright in Tune Position during transmit ?? R2, R3, R4, and R5 all checked ok for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I am not doubting you, just double checking.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...> wrote:
>
> Gordon - I did build the transformer saver.
>
> Here are the voltages...
>
> SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE position
> on TX.
>
> FG= -64V in LSB or TUNE Position during TX
>
> DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
>
> As for actual output. I can't answer that. Since the plate current
> goes off scale when I key it in CW mode, I've never left it keyed more
> than about half a second.
>
> ALC appears to be within spec in the TUNE position.
>
> Kevin
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:

> >
> > Hi Keith,
> > Ok, Those voltages look OK in receive. Just what I would expect to
> > see in a normal working 830.
> > Did you build the Transformer saver?
> > The reason I ask is that I want you to take some measurements while in
> > Transmit mode Very quickly, But I don't want you to burn anything up.
> > I also forgot, Do you get ALC readings in tune? I think you said Yes
> > before. Next question, what kind of Ouput do you get when it's all
> > tuned up?
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > SG = 267V
> > > FG = -104V
> > > DRV = I was able to see a very low level AC voltage, about
200mV. It
> > > appeared to be unaffected by meshing the drive capacitor.
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Kevin, ,
> > > > lets start on any band in receive. I just want to get some
base line
> > > > figures. I would suggest doing it with the heaters on. Adfter
you
> > > > get those, we can evaluate them and go from there.
> > > > Also, BE VERY CAREFUL, there are lethal Voltages in there as I
> am sure
> > > > you are aware, even when just receiving. Always keep one hand
behind
> > > you.
> > > >
> > > > Gordon
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > > wrote:
> > > > >
> > > > > Gordon - I did replace R7 and R8 at the same time as I
> replaced the
> > > > > others. I checked them out of circuit and they are still 100
> ohms.
> > > > > No signs of heating or cracking.
> > > > >
> > > > > I am familiar with the problem of the cracked shaft couplers
> on the
> > > > > bandswitch. These don't show any signs of cracking. I assume

> > > > > someone must have replaced them somewhere along the way.
> > > > >
> > > > > I will check R6 and R10.
> > > > >
> > > > > You might give me some guidance on checking those voltages
on the
> > > > > final board. I don't have any problem making the
> measurement, but
> > > > > tell me what condition the transmitter should be in when I'm
> taking
> > > > > the reading. I'm refering to things like mode switch position,
> > TX or
> > > > > RX, etc.
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > > >
> > > > > > Ok, Yes that is High. My 830 is only running 75 ma in tune
> > position.
> > > > > > Ok next question, What do R7 and R8 ohm out at under the
finals
> > > ? they
> > > > > > should be 100 ohm 1/2 watt. Did you replace those as well as
> > the 20
> > > > > > ohm 1/2 watt resistors ?
> > > > > > Also, as Clif mentioned, check the resistors R6 and R10 in the
> > final
> > > > > > section as they are the resistors for the Meter IP.
> > > > > > Also, how is the bandswitch coupler inside the Final cage?
Is it
> > > > > > broken? Cracked ?
> > > > > > Can you take some voltage readings from the Final board for
> > us? If
> > > > > > so, What is the voltage on the SG terminal, then on the DRV
> > terminal
> > > > > > also the FG terminal.
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > Gordon - The idle bias is now up around 150 mA. I had it
> > > adjusted to
> > > > > > > 60mA before I started having problems. I re-adjusted it
> > down to
> > > > > > > 60mA. Plate current still off scale.

> > > > > > >
> > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > >
> > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > >
> > > > > > > > ALC in TUNE mode reads about 2/3rds deflection within
the ALC
> > > > bracket
> > > > > > > > with the carrier control at approximately 9 o'clock
position.
> > > > > > > >
> > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > >
> > > > > > > >
> > > > > > > > Kevin
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> > wrote:
> > > > > > > >
> > > > > > > > Kevin,
> > > > > > > > What does your ip meter show for idle bias in USB
when you
> > > > key the
> > > > > > > > mike ? Is it set to 60ma ? What does the ALC and the plate
> > > current
> > > > > > > > read in Tune mode? What does your plate voltage show? You
> > > > might want
> > > > > > > > to hook up a transformer saver while you figure this out.
> > > There is
> > > > > > > > directions on building one in the Files section by Walt
> N9WB.
> > > > > > > > What brand and number tubes did you install? The chinese
> > > > 6146's are
> > > > > > > > known to Short/Flash so they are not a good choice.
> > > > > > > >
> > > > > > > > Gordon
> > > > > > > > ---
> > > > > > > >
> > > > > > > >
> > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > wrote:
> > > > > > > > >
> > > > > > > > Gordon - You are correct. I do mean plate current.
> > > Thanks for
> > > > > > > > clearing that up. I was thinking of my SB-1000
amp and
> > > > > refering to

> > > > > > > > > grid current.
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> <n6wk@>
> > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > What do you mean " I keyed the radio and the Grid
> > > current went
> > > > > > > > off the
> > > > > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > > > > How are you measuring Grid current while Keying the
> rig ?
> > > > > > > > > > >
> > > > > > > > > > > Just Curious and trying to get more info to help you
> out.
> > > > > > > > > > >
> > > > > > > > > > > Gordon
> > > > > > > > > > > N6WK
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > <kj558@>
> > > > > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > I've done some research on this forum before
> making this
> > > > > post and
> > > > > > > > > > > didn't run across a similar situation. I hope
> I've not
> > > > > overlooked
> > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > >
> > > > > > > > > > > I recently purchased this 830 so I don't know the
> > > history on
> > > > > > > > it...
> > > > > > > > > > >
> > > > > > > > > > > I used it on the air and everything seemed to be
> working
> > > > > fine and
> > > > > > > > > > > within specifications. An internal inspection
> revealed
> > > > > someone had
> > > > > > > > > > > done the "super size" cathode resistor mod. I
> > > ordered the

> > > > > > > > > > > appropriate resistors and replaced them to avoid
> future
> > > > > > > problems.
> > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > >
> > > > > > > > > > > I noticed the tubes were of different manufacture,
> so I
> > > > > > figured they
> > > > > > > > > > > were not a matched set. I went through the
> > procedure and
> > > > > > > > neutralized
> > > > > > > > > > > the tubes in the event it had not been done.
> > > > Adjustment was
> > > > > > > > > required.
> > > > > > > > > > >
> > > > > > > > > > > After neutralization, I checked the output and
> > dipped the
> > > > > > plate
> > > > > > > > > > > current. Everything appeared within spec and
working
> > > > > normally.
> > > > > > > > > > >
> > > > > > > > > > > I walked away from the bench and made it about three
> > steps
> > > > > > when I
> > > > > > > > > > > heard an arc. I was hoping it didn't come from the
> > 830,
> > > > > > but knew
> > > > > > > > > > > that it probably did.
> > > > > > > > > > >
> > > > > > > > > > > I went back and keyed the radio. The grid current
> > > went off
> > > > > > > > scale. I
> > > > > > > > > > > looked and found my newly installed cathode
> > resistors were
> > > > > > > blown.
> > > > > > > > > > >
> > > > > > > > > > > I assumed a tube had shorted. I checked the
> tubes with
> > > > > > an ohm
> > > > > > > > > meter
> > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > >
> > > > > > > > > > > I ordered a new set of tubes and new resistors.
They
> > > > arrived
> > > > > > > today
> > > > > > > > > > > and I installed them.
> > > > > > > > > > >
> > > > > > > > > > > Operation appears the same. The grid current is

> > > still off
> > > > > > scale,
> > > > > > > > > > > regardless of band.
> > > > > > > > > > > >
> > > > > > > > > > > > I am unable to find any visual evidence to indicate
> > where
> > > > > > the arc
> > > > > > > > > > > > occurred.
> > > > > > > > > > > >
> > > > > > > > > > > > I've been ham for over 20 years, but this is my
first
> > > hybrid
> > > > > > > > rig. I'm
> > > > > > > > > > > > not experienced at troubleshooting tube type gear.
> I'd
> > > > > > welcome any
> > > > > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > > > > >
> > > > > > > > > > > > Assuming I get this problem hashed out, we'll move
> on to
> > > > > > another, less
> > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > >
> > > > > > > > > > > > Prior to the problem with the excessive grid current
> > > > > occurring I
> > > > > > > > > > > > noticed there was no TX and weak RX when the band
> switch
> > > > > was in
> > > > > > > > > > the 28
> > > > > > > > > > > > MHz position, regardless of the position of the
.5 MHz
> > > > > button.
> > > > > > > > > > Proper
> > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > >
> > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9798. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 02:05:10 UTC
From: Kevin Hunter
Topic: 9760 Message: 9798

Gordon - I am able to back the CARRIER control down enough to get the plate current under control. I have to turn it way down though. I found that if there is any ALC deflection, the plate current becomes excessive. I backed the ALC down enough to keep the plate current at 250mA. I also had to keep the LOAD cap fully meshed. The output was about 60 watts. At 350mA grid current, the output was 110 watts.

R2 thru R5 are definitely 20 ohms. I had to replace them because the other ones were destroyed. R6 checked 2.719k.

The light bulb does not glow very bright during TX in the TUNE position, but the rig seems to be suffering effects of low voltage. I notice the PLL appears to lose lock if I increase the carrier control very much.

I checked the line fuse and found someone had a 4 amp fuse in there. I was glad to see that. It has never blown, so I feel none of this incient has stressed the transformer very much.

I'm not sure how much it would solve, but I would feel better if I could find whatever it was that I heard arc.

Thanks for your help on this so far. I was off work today, but go back tomorrow, so I'll have to put this project on hold for a couple of days.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hmmm,
> Very Interesting. I checked the 830 I have here and here is what I
> read. The SG in receive is 235 in USB and the FG is -92 USB in RX
> In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and 85 in
> tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> Your Voltages appear higher across the Board.
> Let me study the schematic some more and get back to you.
> Perhaps some of the other Guys on here have some Ideas also. I am
> puzzled on this. If you back the Carrier control off, can you get
> the plate current to stop pegging or does the rig appear to take off
> on its own ?? I am starting to wonder If clif was on to something in
> the Meter circuit, although you stated that R6 and r10 checked OK.
> Does your light bulb (in the Transformer saver) Glow Really bright in
> Tune Position during transmit ?? R2, R3, R4, and R5 all checked ok
> for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I am not
> doubting you, just double checking.
>

> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - I did build the transformer saver.
> >
> > Here are the voltages...
> >
> > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE position
> > on TX.
> >
> > FG= -64V in LSB or TUNE Position during TX
> >
> > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> >
> > As for actual output. I can't answer that. Since the plate current
> > goes off scale when I key it in CW mode, I've never left it keyed more
> > than about half a second.
> >
> > ALC appears to be within spec in the TUNE position.
> >
> > Kevin
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Keith,
> > > Ok, Those voltages look OK in receive. Just what I would
expect to
> > > see in a normal working 830.
> > > Did you build the Transformer saver?
> > > The reason I ask is that I want you to take some measurements
while in
> > > Transmit mode Very quickly, But I don't want you to burn
anything up.
> > > I also forgot, Do you get ALC readings in tune? I think you said Yes
> > > before. Next question, what kind of Ouput do you get when it's all
> > > tuned up?
> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > SG = 267V

> > > > FG = -104V
> > > > DRV = I was able to see a very low level AC voltage, about
> 200mV. It
> > > > appeared to be unaffected by meshing the drive capacitor.
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Kevin, ,
> > > > > lets start on any band in receive. I just want to get some
> base line
> > > > > figures. I would suggest doing it with the heaters on. Adfter
> you
> > > > > get those, we can evaluate them and go from there.
> > > > > Also, BE VERY CAREFUL, there are lethal Voltages in there as I
> > am sure
> > > > > you are aware, even when just receiving. Always keep one hand
> behind
> > > > you.
> > > > >
> > > > > Gordon
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > > wrote:
> > > > > >
> > > > > > Gordon - I did replace R7 and R8 at the same time as I
> > replaced the
> > > > > > others. I checked them out of circuit and they are still 100
> > ohms.
> > > > > > No signs of heating or cracking.
> > > > > >
> > > > > > I am familiar with the problem of the cracked shaft couplers
> > on the
> > > > > > bandswitch. These don't show any signs of cracking. I
assume
> > > > > > someone must have replaced them somewhere along the way.
> > > > > >
> > > > > > I will check R6 and R10.
> > > > > >
> > > > > > You might give me some guidance on checking those voltages
> on the
> > > > > > final board. I don't have any problem making the
> > measurement, but
> > > > > > tell me what condition the transmitter should be in when I'm
> > taking
> > > > > > the reading. I'm refering to things like mode switch
position,
> > > TX or
> > > > > > RX, etc.
> > > > > >

> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > > > >
> > > > > > > Ok, Yes that is High. My 830 is only running 75 ma in tune
> > > position.
> > > > > > > Ok next question, What do R7 and R8 ohm out at under the
> finals
> > > > ? they
> > > > > > > should be 100 ohm 1/2 watt. Did you replace those as well as
> > > the 20
> > > > > > > ohm 1/2 watt resistors ?
> > > > > > > Also, as Clif mentioned, check the resistors R6 and R10
in the
> > > final
> > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > Also, how is the bandswitch coupler inside the Final cage?
> Is it
> > > > > > > broken? Cracked ?
> > > > > > > Can you take some voltage readings from the Final
board for
> > > us? If
> > > > > > > so, What is the voltage on the SG terminal, then on the DRV
> > > terminal
> > > > > > > also the FG terminal.
> > > > > > > >
> > > > > > > Gordon
> > > > > > > >
> > > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > > wrote:
> > > > > > > > >
> > > > > > > Gordon - The idle bias is now up around 150 mA. I had it
> > > > > adjusted to
> > > > > > > > 60mA before I started having problems. I re-adjusted it
> > > down to
> > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > >
> > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > >
> > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > >
> > > > > > > > ALC in TUNE mode reads about 2/3rds deflection within
> the ALC
> > > > > bracket
> > > > > > > > with the carrier control at approximately 9 o'clock
> position.
> > > > > > > > >
> > > > > > > > The replacement tubes are Sylvania brand 6146B's.

> > > > > > > >
> > > > > > > > >
> > > > > > > > > Kevin
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > > wrote:
> > > > > > > > > >
> > > > > > > > > > Kevin,
> > > > > > > > > > What does your ip meter show for idle bias in USB
> when you
> > > > > > key the
> > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC and the
plate
> > > > current
> > > > > > > > > > read in Tune mode? What does your plate voltage
show? You
> > > > > might want
> > > > > > > > > > to hook up a transformer saver while you figure this
out.
> > > > There is
> > > > > > > > > > directions on building one in the Files section by Walt
> > N9WB.
> > > > > > > > > > What brand and number tubes did you install? The
chinese
> > > > > 6146's are
> > > > > > > > > > known to Short/Flash so they are not a good choice.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > > ---
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > Gordon - You are correct. I do mean plate current.
> > > > Thanks for
> > > > > > > > > > clearing that up. I was thinking of my SB-1000
> amp and
> > > > > > refering to
> > > > > > > > > > grid current.
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > <n6wk@>
> > > > > wrote:
> > > > > > > > > > > >
> > > > > > > > > > Hi Kevin,

> > > > > > > > > > > What do you mean " I keyed the radio and the Grid
> > > > current went
> > > > > > > > off the
> > > > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > > > How are you measuring Grid current while Keying the
> > rig ?
> > > > > > > > > >
> > > > > > > > > > Just Curious and trying to get more info to help you
> > out.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > > N6WK
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> > Hunter"
> > > > > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > > I've done some research on this forum before
> > making this
> > > > > > > post and
> > > > > > > > > > didn't run across a similar situation. I hope
> > I've not
> > > > > > > overlooked
> > > > > > > > > > something that has been addressed before.
> > > > > > > > >
> > > > > > > > > > I recently purchased this 830 so I don't know the
> > > > > history on
> > > > > > > it...
> > > > > > > > >
> > > > > > > > > > I used it on the air and everything seemed to be
> > working
> > > > > > fine and
> > > > > > > > > > within specifications. An internal inspection
> > revealed
> > > > > > someone had
> > > > > > > > > > done the "super size" cathode resistor mod. I
> > > > > ordered the
> > > > > > > > > > appropriate resistors and replaced them to avoid
> > future
> > > > > > problems.
> > > > > > > > > > Rig still working FB after install.
> > > > > > > > >
> > > > > > > > > > I noticed the tubes were of different manufacture,
> > so I

> > > > > > > > figured they
> > > > > > > > > > > > > were not a matched set. I went through the
> > > procedure and
> > > > > > > > > > neutralized
> > > > > > > > > > > > > the tubes in the event it had not been done.
> > > > > Adjustment was
> > > > > > > > > > required.
> > > > > > > > > > > >
> > > > > > > > > > > > After neutralization, I checked the output and
> > > dipped the
> > > > > > plate
> > > > > > > > > > > > current. Everything appeared within spec and
> working
> > > > > > normally.
> > > > > > > > > > > >
> > > > > > > > > > > > I walked away from the bench and made it about
three
> > > steps
> > > > > > when I
> > > > > > > > > > > > heard an arc. I was hoping it didn't come
from the
> > > 830,
> > > > > > but knew
> > > > > > > > > > > > that it probably did.
> > > > > > > > > > > >
> > > > > > > > > > > > I went back and keyed the radio. The grid
current
> > > > went off
> > > > > > > > > scale. I
> > > > > > > > > > > > looked and found my newly installed cathode
> > > resistors were
> > > > > > > > blown.
> > > > > > > > > > > >
> > > > > > > > > > > > I assumed a tube had shorted. I checked the
> > tubes with
> > > > > > an ohm
> > > > > > > > > meter
> > > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > > >
> > > > > > > > > > > > I ordered a new set of tubes and new resistors.
> They
> > > > > arrived
> > > > > > > > today
> > > > > > > > > > > > and I installed them.
> > > > > > > > > > > >
> > > > > > > > > > > > Operation appears the same. The grid current is
> > > > still off
> > > > > > > scale,
> > > > > > > > > > > > regardless of band.
> > > > > > > > > > > >

> > > > > > > > > > > > > I am unable to find any visual evidence to
indicate
> > > where
> > > > > > > the arc
> > > > > > > > > > > > > occurred.
> > > > > > > > > > > > >
> > > > > > > > > > > > > I've been ham for over 20 years, but this is my
> first
> > > > hybrid
> > > > > > > > > > rig. I'm
> > > > > > > > > > > > > not experienced at troubleshooting tube type gear.
> > I'd
> > > > > > > > welcome any
> > > > > > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > > > > > >
> > > > > > > > > > > > > Assuming I get this problem hashed out, we'll move
> > on to
> > > > > > > > another, less
> > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > >
> > > > > > > > > > > > > Prior to the problem with the excessive grid
current
> > > > > > occurring I
> > > > > > > > > > > > > noticed there was no TX and weak RX when the band
> > switch
> > > > > > > was in
> > > > > > > > > > > > > the 28
> > > > > > > > > > > > > MHz position, regardless of the position of the
> .5 MHz
> > > > > > button.
> > > > > > > > > > > > > Proper
> > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > >
> > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9799. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 03:47:11 UTC
From: Gordon
Topic: 9760 Message: 9799

Thanks for the info Kevin,
With the Transformer saver in line, I would expect you to experience
the effects of Low Voltage on Transmit because of the resistance in
the light bulb to the circuit. The rig is Not seeing full Voltage
under Load.
If you remove the Transformer saver, do you experience the same effects ?
I am studing the circuit and think we might want to start looking at
the Rf Unit. Have you checked all the Components on the Rectifier
board ?? They are all important to everything eles down the line .
Those parts seem to fail Often !
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...>
wrote:
>
> Gordon - I am able to back the CARRIER control down enough to get the
> plate current under control. I have to turn it way down though. I
> found that if there is any ALC deflection, the plate current becomes
> excessive. I backed the ALC down enough to keep the plate current
> at 250mA. I also had to keep the LOAD cap fully meshed. The output
> was about 60 watts. At 350mA grid current, the output was 110 watts.
>
> R2 thru R5 are definitely 20 ohms. I had to replace them because the
> other ones were destroyed. R6 checked 2.719k.
>
> The light bulb does not glow very bright during TX in the TUNE
> position, but the rig seems to be suffering effects of low voltage.
> I notice the PLL appears to lose lock if I increase the carrier
> control very much.
>
> I checked the line fuse and found someone had a 4 amp fuse in there.
> I was glad to see that. It has never blown, so I feel none of
> this incient has stressed the transformer very much.
>
> I'm not sure how much it would solve, but I would feel better if I
> could find whatever it was that I heard arc.
>
> Thanks for your help on this so far. I was off work today, but go
> back tomorrow, so I'll have to put this project on hold for a couple
> of days.
>
> Kevin
>
>
>

> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hmmm,
> > Very Interesting. I checked the 830 I have here and here is what I
> > read. The SG in receive is 235 in USB and the FG is -92 USB in RX
> > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and 85 in
> > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > Your Voltages appear higher across the Board.
> > Let me study the schematic some more and get back to you.
> > Perhaps some of the other Guys on here have some Ideas also. I am
> > puzzled on this. If you back the Carrier control off, can you get
> > the plate current to stop pegging or does the rig appear to take off
> > on its own ?? I am starting to wonder If clif was on to something in
> > the Meter circuit, although you stated that R6 and r10 checked OK.
> > Does your light bulb (in the Transformer saver) Glow Really bright in
> > Tune Position during transmit ?? R2, R3, R4, and R5 all checked ok
> > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I am not
> > doubting you, just double checking.
> >
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - I did build the transformer saver.
> > >
> > > Here are the voltages...
> > >
> > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE
position
> > > on TX.
> > >
> > > FG= -64V in LSB or TUNE Position during TX
> > >
> > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > >
> > > As for actual output. I can't answer that. Since the plate
current
> > > goes off scale when I key it in CW mode, I've never left it
keyed more
> > > than about half a second.
> > >
> > > ALC appears to be within spec in the TUNE position.
> > >
> > > Kevin
> > >
> > >
> > >

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Hi Keith,
> > > > Ok, Those voltages look OK in receive. Just what I would
> expect to
> > > > see in a normal working 830.
> > > > Did you build the Transformer saver?
> > > > The reason I ask is that I want you to take some measurements
> while in
> > > > Transmit mode Very quickly, But I don't want you to burn
> anything up.
> > > > I also forgot, Do you get ALC readings in tune? I think you
said Yes
> > > > before. Next question, what kind of Ouput do you get when it's all
> > > > tuned up?
> > > >
> > > > Gordon
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > > wrote:
> > > > >
> > > > > SG = 267V
> > > > > FG = -104V
> > > > > DRV = I was able to see a very low level AC voltage, about
> > 200mV. It
> > > > > appeared to be unaffected by meshing the drive capacitor.
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > > >
> > > > > > Kevin, ,
> > > > > > lets start on any band in receive. I just want to get some
> > base line
> > > > > > figures. I would suggest doing it with the heaters on. Adfter
> > you
> > > > > > get those, we can evaluate them and go from there.
> > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in there as I
> > > am sure
> > > > > > you are aware, even when just receiving. Always keep one hand
> > behind
> > > > > > you.
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > Gordon - I did replace R7 and R8 at the same time as I

> > > replaced the
> > > > > > > others. I checked them out of circuit and they are
still 100
> > > ohms.
> > > > > > > No signs of heating or cracking.
> > > > > > >
> > > > > > > I am familiar with the problem of the cracked shaft couplers
> > > on the
> > > > > > > bandswitch. These don't show any signs of cracking. I
> assume
> > > > > > > someone must have replaced them somewhere along the way.
> > > > > > >
> > > > > > > I will check R6 and R10.
> > > > > > >
> > > > > > > You might give me some guidance on checking those voltages
> > on the
> > > > > > > final board. I don't have any problem making the
> > > measurement, but
> > > > > > > tell me what condition the transmitter should be in when I'm
> > > taking
> > > > > > > the reading. I'm refering to things like mode switch
> position,
> > > > TX or
> > > > > > > RX, etc.
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> > wrote:
> > > > > > >
> > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma in tune
> > > > position.
> > > > > > > > Ok next question, What do R7 and R8 ohm out at under the
> > finals
> > > > > > ? they
> > > > > > > > should be 100 ohm 1/2 watt. Did you replace those as
well as
> > > > the 20
> > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > Also, as Clif mentioned, check the resistors R6 and R10
> in the
> > > > final
> > > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > > Also, how is the bandswitch coupler inside the Final cage?
> > Is it
> > > > > > > > broken? Cracked ?
> > > > > > > > Can you take some voltage readings from the Final
> board for
> > > > us? If
> > > > > > > > so, What is the voltage on the SG terminal, then on
the DRV

> > > > terminal
> > > > > > > > > also the FG terminal.
> > > > > > > > >
> > > > > > > > > Gordon
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > > <kj558@>
> > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > Gordon - The idle bias is now up around 150 mA. I
had it
> > > > > > adjusted to
> > > > > > > > > 60mA before I started having problems. I
re-adjusted it
> > > > down to
> > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > >
> > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > >
> > > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > >
> > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection within
> > the ALC
> > > > > > bracket
> > > > > > > > > with the carrier control at approximately 9 o'clock
> > position.
> > > > > > > > >
> > > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > Kevin
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> <n6wk@>
> > > > wrote:
> > > > > > > > >
> > > > > > > > > Kevin,
> > > > > > > > > What does your ip meter show for idle bias in USB
> > when you
> > > > > > key the
> > > > > > > > > mike ? Is it set to 60ma ? What does the ALC and the
> plate
> > > > > current
> > > > > > > > > read in Tune mode? What does your plate voltage
> show? You
> > > > > might want
> > > > > > > > > to hook up a transformer saver while you figure this

> out.
> > > > > There is
> > > > > > > > > > directions on building one in the Files section by
Walt
> > > N9WB.
> > > > > > > > > > What brand and number tubes did you install? The
> chinese
> > > > > > 6146's are
> > > > > > > > > > known to Short/Flash so they are not a good choice.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > > ---
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > > <kj558@>
> > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Gordon - You are correct. I do mean plate current.
> > > > > Thanks for
> > > > > > > > > > clearing that up. I was thinking of my SB-1000
> > amp and
> > > > > > refering to
> > > > > > > > > > grid current.
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > > <n6wk@>
> > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Hi Kevin,
> > > > > > > > > > What do you mean " I keyed the radio and the Grid
> > > > > current went
> > > > > > > > > off the
> > > > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > > > How are you measuring Grid current while
Keying the
> > > rig ?
> > > > > > > > > >
> > > > > > > > > > Just Curious and trying to get more info to
help you
> > > out.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > > N6WK
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > >

> > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> > > Hunter"
> > > > > > > > <kj558@>
> > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I've done some research on this forum before
> > > making this
> > > > > > > > > post and
> > > > > > > > > > > > > > > didn't run across a similar situation. I hope
> > > I've not
> > > > > > > > > overlooked
> > > > > > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I recently purchased this 830 so I don't
know the
> > > > > > > history on
> > > > > > > > > > > > > it...
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I used it on the air and everything seemed to be
> > > working
> > > > > > > > fine and
> > > > > > > > > > > > > > > within specifications. An internal inspection
> > > revealed
> > > > > > > > someone had
> > > > > > > > > > > > > > done the "super size" cathode resistor mod. I
> > > > > > > ordered the
> > > > > > > > > > > > > > > appropriate resistors and replaced them to avoid
> > > future
> > > > > > > > problems.
> > > > > > > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I noticed the tubes were of different
manufacture,
> > > so I
> > > > > > > > figured they
> > > > > > > > > > > > > > > were not a matched set. I went through the
> > > > > > procedure and
> > > > > > > > neutralized
> > > > > > > > > > > > > > > the tubes in the event it had not been done.
> > > > > > Adjustment was
> > > > > > > > required.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > After neutralization, I checked the output and
> > > > > > dipped the
> > > > > > > > plate
> > > > > > > > > > > > > > > current. Everything appeared within spec and
> > working
> > > > > > > > normally.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I walked away from the bench and made it about

> three
> > > > steps
> > > > > > > > > when I
> > > > > > > > > > > > > > heard an arc. I was hoping it didn't come
> from the
> > > > 830,
> > > > > > > > but knew
> > > > > > > > > > > > > > that it probably did.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I went back and keyed the radio. The grid
> current
> > > > > went off
> > > > > > > > > > scale. I
> > > > > > > > > > > > > > looked and found my newly installed cathode
> > > > resistors were
> > > > > > > > blown.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I assumed a tube had shorted. I checked the
> > > tubes with
> > > > > > > an ohm
> > > > > > > > > > meter
> > > > > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I ordered a new set of tubes and new resistors.
> > They
> > > > > > > arrived
> > > > > > > > > > today
> > > > > > > > > > > > > > and I installed them.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Operation appears the same. The grid
current is
> > > > > still off
> > > > > > > > > > scale,
> > > > > > > > > > > > > > regardless of band.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I am unable to find any visual evidence to
> indicate
> > > > where
> > > > > > > > the arc
> > > > > > > > > > > > > > occurred.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I've been ham for over 20 years, but this is my
> > first
> > > > > > hybrid
> > > > > > > > > > > > rig. I'm
> > > > > > > > > > > > > > not experienced at troubleshooting tube type
gear.
> > > I'd
> > > > > > > > > > > > welcome any
> > > > > > > > > > > > > > theories or suggestions anyone cares to offer.

> > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Assuming I get this problem hashed out,
we'll move
> > > on to
> > > > > > > > > > another, less
> > > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Prior to the problem with the excessive grid
> current
> > > > > > > occurring I
> > > > > > > > > > > > > > noticed there was no TX and weak RX when the
band
> > > switch
> > > > > > > was in
> > > > > > > > > > the 28
> > > > > > > > > > > > > > MHz position, regardless of the position of the
> > .5 MHz
> > > > > > > button.
> > > > > > > > > > Proper
> > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

9800. From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 04:18:31 UTC
From: Jerry
Topic: 8136 Message: 9800

Hello to all..I have a straight key connected to a HEATHKIT Practice Oscillator...forgive me here.....it has two wires..connected to it...what kind of jack would it take to connect to the TS-820S...or can I run a cable from the headphone jack from the oscilator to the rig...thank you for your time..THX DE KE7GGV...

9801. TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 07:05:07 UTC
From: Bob M
Topic: 9801 Message: 9801

G'day All,

My TS-530s has decided to play Dead. Worked great on Tuesday night but when I turned it on this morning the Dial lights came on the leds work but nada no one was home.

I've tightend all the board screws, cleaned the band switch and pots, checked SG switch, the HV resistors read 5 ohm and 3 ohms. The one thing I find strange was that they were overwound by 4 turns of bare wire (like the Resistor tails) connected at each end I would have assumed that this would have created a dead short bypassing the resistors. Is this normal??

The unit has worked almost flawlessly for the paost 2 1/2 years. once or twice no display or RX for 30 Seconds to 1 min then fine again.

I have replaced the 12BY7A with 2 others same result.

I'm only at a basic level for poject but would like any advise that will help me get it going again.

Regards Bob M. VK4HAY

9802. Re: [TS-520_820_530_830] TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 10:34:17 UTC
From: n9wb
Topic: 9775 Message: 9802

Well worth it. Tell us if you don't take it. there are others here who will. Walt N9WB
----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 03, 2006 2:31 PM
Subject: [TS-520_820_530_830] TS830s

Guys, I ran across an 830s in VERY NICE condition with new tubes but low output. Priced at $250. Is that reasonable? I need another radio like a knot on the head, but I would like to have an 830s.

73 Dave W0DLR

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9803. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 10:42:59 UTC
From: n9wb
Topic: 9760 Message: 9803

I'm cornfused. How are you getting an idle bias of 60 ma and a plate current of 150 ma? The idle bias is cathode current. I don't know if you want to run it on receive much unless you have a light bulb in series with it. Remember, the voltages are still on the tubes. they could be sitting there running bunches of current and you would never know it.

Walt N9WB
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 03, 2006 4:30 PM
Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Ok, Great.
We'll diagnose this thing, component by component.. hi hi..

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@...>
wrote:
>
> I checked R6 and R10. They are within spec.
>
> Kevin
>
>
> In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> > Ok next question, What do R7 and R8 ohm out at under the finals ? they
> > should be 100 ohm 1/2 watt. Did you replace those as well as the 20
> > ohm 1/2 watt resistors ?
> > Also, as Clif mentioned, check the resistors R6 and R10 in the final
> > section as they are the resistors for the Meter IP.
> > Also, how is the bandswitch coupler inside the Final cage? Is it
> > broken? Cracked ?
> > Can you take some voltage readings from the Final board for us? If
> > so, What is the voltage on the SG terminal, then on the DRV terminal
> > also the FG terminal.
> >
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - The idle bias is now up around 150 mA. I had it

adjusted to
> > > 60mA before I started having problems. I re-adjusted it down to
> > > 60mA. Plate current still off scale.
> > >
> > > Plate voltage is about 925 volts without load.
> > >
> > > Ip in TUNE mode reads 130mA
> > >
> > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
bracket
> > > with the carrier control at approximately 9 o'clock position.
> > >
> > > The replacement tubes are Sylvania brand 6146B's.
> > >
> > >
> > > Kevin
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Kevin,
> > > > What does your ip meter show for idle bias in USB when you
key the
> > > > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > > > read in Tune mode? What does your plate voltage show? You
might want
> > > > to hook up a transformer saver while you figure this out. There is
> > > > directions on building one in the Files section by Walt N9WB.
> > > > What brand and number tubes did you install? The chinese
6146's are
> > > > known to Short/Flash so they are not a good choice.
> > > >
> > > > Gordon
> > > > ---
> > > >
> > > >
> > > > In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> > > > >
> > > > > Gordon - You are correct. I do mean plate current. Thanks for
> > > > > clearing that up. I was thinking of my SB-1000 amp and
> > refering to
> > > > > grid current.
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > > >
> > > > > > Hi Kevin,
> > > > > > What do you mean " I keyed the radio and the Grid current went

> > > off the
> > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > How are you measuring Grid current while Keying the rig ?
> > > > > >
> > > > > > Just Curious and trying to get more info to help you out.
> > > > > >
> > > > > > Gordon
> > > > > > N6WK
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > I've done some research on this forum before making this
> > post and
> > > > > > > didn't run across a similar situation. I hope I've not
> > > overlooked
> > > > > > > something that has been addressed before.
> > > > > > >
> > > > > > > I recently purchased this 830 so I don't know the history on
> > it...
> > > > > > >
> > > > > > > I used it on the air and everything seemed to be working
> > fine and
> > > > > > > within specifications. An internal inspection revealed
> > > someone had
> > > > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > > > appropriate resistors and replaced them to avoid future
> > > problems.
> > > > > > > Rig still working FB after install.
> > > > > > >
> > > > > > > I noticed the tubes were of different manufacture, so I
> > > figured they
> > > > > > > were not a matched set. I went through the procedure and
> > > > neutralized
> > > > > > > the tubes in the event it had not been done.
Adjustment was
> > > > > required.
> > > > > > >
> > > > > > > After neutralization, I checked the output and dipped the
> plate
> > > > > > > current. Everything appeared within spec and working
> normally.
> > > > > > >
> > > > > > > I walked away from the bench and made it about three steps

> > when I
> > > > > > > heard an arc. I was hoping it didn't come from the 830,
> > but knew
> > > > > > > that it probably did.
> > > > > > > >
> > > > > > > I went back and keyed the radio. The grid current went off
> > > > scale. I
> > > > > > > looked and found my newly installed cathode resistors were
> > blown.
> > > > > > > >
> > > > > > > I assumed a tube had shorted. I checked the tubes with
> an ohm
> > > > meter
> > > > > > > and didn't find any shorts.
> > > > > > > >
> > > > > > > I ordered a new set of tubes and new resistors. They
arrived
> > > today
> > > > > > > and I installed them.
> > > > > > > >
> > > > > > > Operation appears the same. The grid current is still off
> > scale,
> > > > > > > regardless of band.
> > > > > > > >
> > > > > > > I am unable to find any visual evidence to indicate where
> > the arc
> > > > > > > occurred.
> > > > > > > >
> > > > > > > I've been ham for over 20 years, but this is my first hybrid
> > > > rig. I'm
> > > > > > > not experienced at troubleshooting tube type gear. I'd
> > > welcome any
> > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > >
> > > > > > > Assuming I get this problem hashed out, we'll move on to
> > > > another, less
> > > > > > > catastrophic, problem with the rig...
> > > > > > > >
> > > > > > > Prior to the problem with the excessive grid current
> occurring I
> > > > > > > noticed there was no TX and weak RX when the band switch
> was in
> > > > the 28
> > > > > > > MHz position, regardless of the position of the .5 MHz
> button.
> > > > Proper
> > > > > > > operation on all other postitions.
> > > > > > > >
> > > > > > > Kevin Hunter - KA0I
> > > > > > > Holts Summit, MO

> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9804. Re: [TS-520_820_530_830] Alignment Tools

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 10:49:40 UTC
From: n9wb
Topic: 9785 Message: 9804

I use the center fiberglass rod from the small K-40 CB antennas. Cut them to about 4 inches or whatever and place them in a drill. Then spin the rod against a moving grinder to sharpen them to a pencil point. Then I take them out of the drill and use the grinder to make a blade. When they get flaky, I just re sharpen them.

Perhaps you could find another source of rods. Check the trash cans on fuel islands at truck stops or CB shops. The wire in these usually breaks in about 30 days and they get thrown away.

Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 03, 2006 4:40 PM
Subject: [TS-520_820_530_830] Alignment Tools

My alignment tools are all plastic and are getting well worn. Can
someone suggest a place that sells good quality non-conductive tools
for adjusting Coils and Caps ? Anyone tried the Ceramic tools ?
I know better then to try to use metal (The slugs break) and
conductive bites ..

Gorodn

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9805. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 11:14:26 UTC
From: n9wb
Topic: 9703 Message: 9805

Consolidated Electronics, Inc.
705 Watervliet Avenue
PO Box 20070
Dayton, Ohio 45420-0070
Telephone 1-937-252-5662
Toll - Free 1-800-543-3568
Fax 937-252-4066
EMail: cei@...

Gordon and Walt M. :

Unfortunately, I don't have any spares. I sent my extras to the Fox Tango group and they got all scarfed up quickly. Steve can come up with a good Schottky diode for you. Steve, the owner of Consolidated is a ham. He also has some 3SK 40s.
This guy is a good source of all kinds of Asian parts. The parts quality is top notch, the prices are cheap, and the service is great. Who could ask for more. Steve is on the DARA board for the Dayton Hanvention.

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 03, 2006 5:32 PM
Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Rick, Where did you purchase them from? I might just make an order,
then I can sell them back to the guys in small quantities ,as you are
doing. Not for Profit, just for convenience and to help out.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton"
<wmilton@...> wrote:
>
> Rick,
>
> If you have any extra left. I would like to get enough to do the
mod on my
> TS-830S.
>
> Thanks,
> Walt, KA2NJF
> Psalm 1
> A Child of the living God
> Walt
>

>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick May
> Sent: Sunday, October 01, 2006 3:58 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
>
> Hi Gordon,
>
> When I ordered them, I stipulated to the guy on the phone I wanted 1%
> tolerance if he had them. I had wanted 1N6263 diodes as listed in AG6K's
> article, but he told me the 1N5711's were very good...and had a higher
> voltage rating. He was right ...The junction resistance and capacitance
> differences are nill. I used a B&K 810C and a Fluke 77 which are
supposed to
> be accurate to .5% (that is 'point' 5%) so the diodes are matched close
> enough for our use. The only problem ordering them is dealing with the
> minimum order most electronic sellers have. You probably won't need
25 or 50
> of them.
>
> 73' Rick KC0HH
>
> Gordon <n6wk@... <mailto:n6wk%40n6wk.com> > wrote: Thanks Rick,
> I also appreciate you selling me the Diodes.
> Walt was wondering if they were matched. I didn't check them, I just
> installed them and checked the Carrier adjustment. I had to tweak L19
> and L20 just a bit but the Carrier balance was still right on. I am
> now debating whether to go ahead and swap out the Balanced Modulator
> diodes as well.
> Were the Diodes matched ? They sure do work nice in the 830.
>
> Thanks again,
> Gordon
> N6WK
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Hi Gordon,
> >
> > I am glad you saw the same improvement I did. I have been amazed
> since I did the Shottkey mod on my 830S....The noise floor is
> definitely better and the 830S' white noise level doesn't give me a
> headache while listening with headphones now. I think after you make
> the diode swap, the lack of phase noise in the 830S' receiver lets you

> hear more signals.....The Shottkey diodes are a cheap fix.
> >
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> >
> >
> > Gordon <n6wk@> wrote: Today, I
> opened up my TS-830S and decided to do the Schottky Diode Mod
> > on the Product detector. I had already opened up the Audio by
> > replacing C-106 with a .0015 cap . I also had replaced the Band switch
> > Coupler with the ones from K4EAA.
> > I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
> > I then adjusted the voltage across the resistor with L-19 and L-20 to
> > 600 Mv.
> > I then tuned up on 20 meters. I worked a station in Portugal and
> > Italy. They were strong and I received great reports. I then tuned
> > across 3XM6JR. He was weak but workable. I tried calling a few times
> > with the 830 barefoot, but was not able to break through the East
> > Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
> > to work him. To my surprise, I could NOT even copy him with the
> > TS-2000. I switched back to the 830 and there he was. Still weak, but
> > I could copy him, then back to the TS-2000 and he was too low in the
> > Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> > My Conclusion is, This Mod on the 830 is a great thing. It seems to
> > lower the noise floor yet the response is Excellent.
> > I might now have to replace some diodes in the TS-2000.
> > I am impressed. I am now ready to sell this TS-830S (Gold Label) and
> > look for another one to repair. After all, Repairing these rigs is my
> > Hobby !
> >
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2¢/min or less.
> >
> > [Non-text portions of this message have been removed]
> >
>

>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
> countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9806. Re: [TS-520_820_530_830] From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 11:31:55 UTC
From: n9wb
Topic: 8136 Message: 9806

Forget the Heathkit oscillator. Connect a piece of coax (RG-58 or 59 stranded center is best You can also use shielded audio cable) from the key to a 1/4 inch mono phone plug. Connect the center to the key terminal that goes to the fixed contact on the key. Connect the shield to the other key terminal that goes to the movable part. On the other end connect the center of the coax to the terminal of the 1/4 inch mono phone plug that goes to the tip. Connect the shield to the part that goes to the outside of the plug.

When in CW on receive you will hear the sidetone of the 820 and can practice code. When CW transmit, it will send CW.

Vy 73, Walt N9WB

----- Original Message -----
From: Jerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 03, 2006 11:18 PM
Subject: [TS-520_820_530_830] From KE7GGV

Hello to all..I have a straight key connected to a HEATHKIT Practice Oscillator...forgive me here.....it has two wires..connected to it...what kind of jack would it take to connect to the TS-820S...or can I run a cable from the headphone jack from the oscilator to the rig...thank you for your time..THX DE KE7GGV...

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9807. Re: [TS-520_820_530_830] TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 10:52:29 UTC
From: Ken Winterling
Topic: 9801 Message: 9807

Bob,

From your description of the "HV resistors" it sounds like your are describing the parasitic suppressors connected to the final plate caps and plate choke in the top of the final compartment. Am I correct? If so, they should be a dead short at DC using an ohm meter. While you are there be sure to check the soldered connections as they may need attention.

The resistors to measure are in the cathode circuit of the finals under the final compartment in the bottom of the chassis. Those are each 20 ohms and are in parallel. They should measure 5 ohms.

As for the "no one was home" condition, it sounds like the 12 VDC regulator on the AF unit X49-1150-00 (board) is the problem. If you have the road map (schematic) check the regulated output at connection 12 and the regulator input at connection 14 on the edges of the board. What do you find?

Ken, WA2LBI

On 10/4/06, Bob M <baysideq@...> wrote:
> G'day All,
>
> My TS-530s has decided to play Dead. Worked great on Tuesday night
> but when I turned it on this morning the Dial lights came on the
> leds work but nada no one was home.
>
> I've tightend all the board screws, cleaned the band switch and pots,
> checked SG switch, the HV resistors read 5 ohm and 3 ohms. The one
> thing I find strange was that they were overwound by 4 turns of bare
> wire (like the Resistor tails) connected at each end I would have
> assumed that this would have created a dead short bypassing the
> resistors. Is this normal??
>
> The unit has worked almost flawlessly for the paost 2 1/2 years.
> once or twice no display or RX for 30 Seconds to 1 min then fine
> again.
>
> I have replaced the 12BY7A with 2 others same result.
>
> I'm only at a basic level for poject but would like any advise that
> will help me get it going again.
>
> Regards Bob M. VK4HAY
>

9808. Re: [TS-520_820_530_830] TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 11:32:50 UTC
From: Bill Scurlock
Topic: 9801 Message: 9808

Bob,

I experienced a similar problem with my 830 recently - no receive and no display, and only the pilot lights worked. All voltages on the Rectifier Board were normal. It turned out to be a pass transistor in the 9V regulator circuit on the AF Board. On your TS-530, use a DVM to check from TP6 on the AF Board to circuit board common and see if you have 9 volts. If not, you probably won't have the 3.2 volts on Pin 5 of Connector 11 either. I have heard that similar symptoms can be caused by poor ground connections between the AF Board and the main metal chassis where the screws secure the board.

Ken could be correct also, because if there is no voltage coming into connection point 14A on the AF Board, you will not have any 9 volt power either. There should be about 19V at connection point 14A when measured with your DVM to circuit board common.

Good Hunting Bob.

73, Bill, K5GCW
----- Original Message -----
From: Bob M
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 2:05 AM
Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX

G'day All,

My TS-530s has decided to play Dead. Worked great on Tuesday night
but when I turned it on this morning the Dial lights came on the
leds work but nada no one was home.

I've tightend all the board screws, cleaned the band switch and pots,
checked SG switch, the HV resistors read 5 ohm and 3 ohms. The one
thing I find strange was that they were overwound by 4 turns of bare
wire (like the Resistor tails) connected at each end I would have
assumed that this would have created a dead short bypassing the
resistors. Is this normal??

The unit has worked almost flawlessly for the paost 2 1/2 years.
once or twice no display or RX for 30 Seconds to 1 min then fine
again.

I have replaced the 12BY7A with 2 others same result.

I'm only at a basic level for poject but would like any advise that
will help me get it going again.

Regards Bob M. VK4HAY

[Non-text portions of this message have been removed]

9809. Re: [TS-520_820_530_830] TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 11:41:23 UTC
From: Bill Scurlock
Topic: 9775 Message: 9809

Amen Dave,

There are several of us waiting to see what you do about the 830, but I think Gordon spoke up first. This is one of the most interesting "groups" I have experienced. We're all encouraging each other to get deeper in debt buying and fixing these great Kenwood radios. But, it's fun.

73, Bill, K5GCW
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 5:34 AM
Subject: Re: [TS-520_820_530_830] TS830s

Well worth it. Tell us if you don't take it. there are others here who will. Walt N9WB
----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 03, 2006 2:31 PM
Subject: [TS-520_820_530_830] TS830s

Guys, I ran across an 830s in VERY NICE condition with new tubes but low output. Priced at $250. Is that reasonable? I need another radio like a knot on the head, but I would like to have an 830s.

73 Dave W0DLR

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9810. Re: [TS-520_820_530_830] TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 13:07:37 UTC
From: n9wb
Topic: 9801 Message: 9810

I think that the resistors you are referring to are the ones that go to the plate caps. these are parasitic chokes. The wire around them rejects VHF parasitic and the resister part serves as a reject load and turns the parasitic energy to heat. Does the read out work?

Vy 73, Walt N9WB

----- Original Message -----
From: Bob M
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 2:05 AM
Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX

G'day All,

My TS-530s has decided to play Dead. Worked great on Tuesday night but when I turned it on this morning the Dial lights came on the leds work but nada no one was home.

I've tightend all the board screws, cleaned the band switch and pots, checked SG switch, the HV resistors read 5 ohm and 3 ohms. The one thing I find strange was that they were overwound by 4 turns of bare wire (like the Resistor tails) connected at each end I would have assumed that this would have created a dead short bypassing the resistors. Is this normal??

The unit has worked almost flawlessly for the paost 2 1/2 years. once or twice no display or RX for 30 Seconds to 1 min then fine again.

I have replaced the 12BY7A with 2 others same result.

I'm only at a basic level for poject but would like any advise that will help me get it going again.

Regards Bob M. VK4HAY

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9811. Swapping diodes ??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 12:25:05 UTC
From: max_ve3tmt
Topic: 9811 Message: 9811

I soon will be swapping the modulator and detector diodes but I have seen reference to a 100 ohm resistor. Can anyone tell me what this refers to?

Max VE3TMT

9812. Re: TS-520 audio system followed by some opinions and mods. N9WB

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 12:40:11 UTC
From: Phil
Topic: 9711 Message: 9812

Thanks Walt - this is a wonderful common sense guide to good audio
with the TS-520/S/SE family. Thanks you very much for the time and
effort putting this together. I will be referring to it often.

Phil Rafuse VY2PR
PEI Canada

--- In TS-520_820_530_830@yahoogroups.com, "Walter A. Breining"
<n9wb@...> wrote:
>
> The following has been posted in the "Files" section of this group
> under "Mods"
>
> Below is a discussion of the TS-520 audio system followed by some
> opinions and mods:
>
> Note:
> I was sent a list of mods for the TS-520. "Here are just a few
mods
> that I designed for my 520." These must be for another rig than
the
> TS-520. These will not work on the 520!
>
> TS-520 transmit audio system.
>
> Processor off:
> Generator Board.
> Transmit
>
> The microphone audio enters on pin 1 of the microphone connector
> where it is connected by a coaxial cable to the MIC terminal on
the
> Generator board.
>
> From MIC, it is then coupled through C-14 (1 uf) to the base of
pre-
> amp Q-3.
> From the collector of Q-3 the audio passes through C-17 (. 1 uf)
to
> the base of Q4.
>
> High frequencies from the collector of Q-3 are bypassed to ground
by
> C-16 (.01 uf).
>

> Q-4 is an emitter follower circuit. In such a circuit, the output
is
> taken from the emitter and is a relatively lower impedance
output.
> (Impedance around 2 K ohms).
>
> From this emitter output passes through C-43 (1 uf) to D-18.
>
> When the processor is off D-18 acts as a switch on the on position
> and passes the audio to C-44 (3.3 uf).
>
> This signal then is routed to the MV-1 terminal on the Generator
> board to the mike gain control input via a coaxial cable.
>
> From the mike gain control output, the audio signal returns to the
> Generator board via a coaxial cable through terminal MV-2.
>
> The audio signal then passes through C-37 to the base of Q-6. The
> collector of Q-6 is directly coupled to the base of Q5 and the
> collector output of Q5 passes through C-40 (10 uf) to Generator
board
> terminal MAO.
>
> From MAO the signal passes through a coaxial cable to the mode
> switch. When the mode switch is in USB or LSB position, the audio
> signal is then routed via a coaxial cable to BM on the Generator
> Board. This feeds this audio signal into the Balanced modulator
where
> the DSB signal is produced and later filtered to SSB on the IF
board.
>
> Processor on:
>
> *When the processor is on, D-18 now acts as an open switch and no
> longer passes the audio signal to C-44.
>
> Instead, audio passes through C-18 (.047 uf) to the drain circuit
of
> FET Q-7. FET Q7 acts as a voltage controlled variable shunt
resistor
> and shunts the audio level to ground by way of C-20 (100 uf)
> depending on the DC voltage applied to its gate.
>
> This controlled audio signal is then applied to the very high
> impedance input provided by the gate of FET Q-8. Q-8 is a source
> follower and provides isolation between the processor control
circuit
> Q-7 and the input of Q-9. The controlled audio from the source
> output of Q-8 passes through C-26 (.01 uf) to the base of Q-9.
>

> The collector output of Q-9 is DC coupled to the base of Q-10. The
> collector output then feeds the controlled audio signal to VR-3
> through C-30 (3.3 uf). The controlled audio from the output of VR-
3
> then passes through C-33 (3.3 uf) Through D-17 to MV-1 the input
of
> the Mike gain control.
>
> VR-3 provides a means to adjust the peak output of the controlled
> audio that goes to the mike gain control to match the audio with
the
> processor off.
>
> D-17 and D18 switch the input of the mike gain control between
> processed audio and unprocessed audio. D-18 connects the
unprocessed
> audio to the mike gain control when the processor is off.
> D-17 connects the processed audio to the mike gain control when
the
> processor is on.
>
> From this point the controlled audio follows the same path from
the
> mike gain control into Q6, Q7, through the mode switch and into
the
> balanced modulator in the same manner as the audio from the mike
gain
> output does with the processor off.
>
> Processor DC control system.
>
> Audio is sampled from the collector output of Q-10 by way of C-31
> (.47uf) and into buffer amplifier Q-11. Push-Pull audio is
provided
> from Q-11 by getting audio from both the collector and emitter of
Q-
> 11. This is coupled by C-32 and C-33 (both 3.3 uf) into a bridge
> rectifier circuit consisting of D-13, D-14, D-15, and D-16.
>
> The DC output of this rectifier connects to the base of Q-12. This
DC
> voltage is dependent of the audio level at the collector of Q-10.
> This voltage is then amplified by Q-12 a DC emitter follower
> amplifier.
>
> The DC output of the emitter of this amplifier connects to the
gate
> of FET Q-7. As described earlier, FET Q7 acts as a voltage
controlled
> variable shunt resistor and shunts the audio level to ground by

way
> of C-20 (100 uf) depending on the DC voltage applied to its gate
from
> Q-12.
>
> C-55 and R-37 provide a time constant that is very fast but not
> instantaneous. This allows the compressor to attack quickly but
not
> so fast as to create distortion. C-35 and R-34 serve as a release
> time constant that provides a slower release time, depending upon
the
> duration of the input peak.
>
>
> Discussion and opinions:
>
> I personally classify SSB transmit audio in one of three very
> general categories.
>
> 1. DX audio:
> Many extreme DX enthusiasts find that a narrow, middy audio sound
> that is higher on the high end of their narrow bandwidth is
favorable
> when operating DX. This cuts through pile-ups and noise quite
well.
> For the rather short transmissions of most DX contacts, this is
not
> particularly annoying and provides for clear transmissions of
signal
> reports and other basic information. The Heil HC-4 element
provides
> this sound and is popular with serious DX enthusiasts.
>
> 2. Rag chew audio:
> This is the audio that most Amateurs wish to achieve. It is
natural,
> clear, but yet has enough articulation to be well understood.
Ideally
> it will have some lows but not booming bass and highs that extend
to
> anywhere from 2400 Hz to 3000 Hz or so. The Heil HC-5 provides
this
> kind of audio.
>
> 3. ESSB audio. This audio is absolutely beautiful when listened
to
> on a high quality receiver. It has lows below 100 Hz and highs up
to
> 3500 Hz and sometimes beyond. To achieve this, the Amateur must
have

> a rig that generates its signal by Direct Digital Synthesis. These
> operators usually use a RF amplifier and several thousands of
dollars
> of audio processing gear. The RF amplifier is necessary because
this
> type of signal does not have a high RMS content. These operators
pay
> particular care to be sure that their equipment and their
amplifier
> has very low IM and harmonic distortion so their signal sounds
very
> clean.
>
> Since DX audio is much narrower than the stock TS-520 is capable
of,
> modifications to the transmit audio is a non issue with DX audio
>
> People perusing ESSB audio usually feed the audio output from
their
> rack of processing gear directly into the balanced modulator. This
> makes modifications to the transmit audio circuits prior to the
> balanced modulator a moot issue. There are many rigs much more
> suited to this endeavor than the TS-520.
>
> So my discussion is going to be with regard to the pursuit of very
> good rag chew audio. This is what most people reading this are
> really seeking,
> In articles, capacitor changes have been recommended for the TS-
520.
> While some of these may be helpful, others extend the frequency
> response beyond that which the IF and filter are capable of and
are
> of no use to most Amateurs.
>
> I do believe that the following changes might be helpful.
>
> Generator Board:
>
> C-16 Change to .001. This capacitor shunts the collector of Q-3
the
> mike pre amp transistor to ground. This shunts higher frequency
audio
> tones that are well within the radio's audio bandpass to ground.
This
> change will make the transmitted audio have slightly more
> articulation and sound more open.
>
> C-17 Change to a value of 1uf or 2.35 uf.
> If a 1-uf non-polar capacitor is available use this.
> If a non-polar capacitor is not available make one using two 4.7

uf
> capacitors. Connect the two negative leads together and use the
> remaining positive leads to connect where the original capacitor
was
> connected. The two negative leads connect only to each other.
> This capacitor couples the audio to the base of Q4, the second
mike
> pre amp transistor. This change will keep this capacitor from
> reducing the low frequency response.
>
> C-37 Change this value to 1 uf. A non-polar capacitor is not
needed
> here. Place the + lead to the foil that connects to the base of Q-
6.
> This capacitor couples the output of the mike gain control to the
> input (base) of Q6, the first driver for the balanced modulator.
>
>
> Read thoroughly before making the next changes: I DO NOT RECOMMEND
> THIS NEXT CHANGE
>
> There are also 2 changes that will increase the low frequency
> response of the processor circuit.
> C-22 and C-26 can be changed to 1 uf. If a non-polar capacitor is
not
> used, the + side should go to the Q-8 base and Q-9 base
respectively.
>
>
>
> With the original values (.01), when the processor is energized,
the
> brightness and articulation of your audio will increase. I
believe
> that it is best to leave the circuit this way.
>
> Consider this:
> When you turn the processor on is when you need more punch. An
> increase in brightness will be beneficial at this time.
>
> So I would leave this alone. But I provided the information so you
> can decide.
>
>
> There are some 1 uf capacitors that some people might suggest
> changing to higher values. I do not believe that changing these
will
> make any difference unless you are running an audio rack. If you
were
> running an audio rack, you would benefit more from feeding the

> balanced modulator directly than making these changes.
>
> Receiver:
> Generator board
>
> The demodulated receive audio leaves the balanced detector
(product
> detector) at the Det pin on the Generator board and is fed to the
Det
> terminal on the AF unit board via a coaxial cable.
>
> AF unit
>
> The demodulated receive audio leaves the balanced detector
(product
> detector) at the Det pin on the Generator board and is fed to the
Det
> terminal on the AF unit board via a coaxial cable.
>
> It then passes through C-14 (.47 uf) to the input (base) of Q5.
> Audio from the output (collector) of Q-5 passes through C-13 (.047
> uF) through pin AV-1 to the input of the AF gain control via a
> coaxial cable.
>
> From the output of the AF gain control, the receive audio passes
back
> to the AF unit through AV-2 via a coaxial cable and then through
L2 a
> RF Choke (3.3uh) and through C-1 (4.7 uf) to the input (base) of
Q2.
> Q2 and complimentary transistors Q3 and Q4 comprise the audio
output
> amplifier that provides the speaker and headphones with high level
> audio.
>
> A word about receiver audio:
>
> Except when receiving strong ESSB signals, we have to look at SSB
> receive audio differently than we would high fidelity audio.
> Unfortunately, our received H.F. SSB signals are accompanied by
> various noises. The wider that we open the receiver frequency
> response, the more noise that we will hear.
>
> With some noises, such as static crashes, slightly extended high
end
> will actually soften these sounds making them more tolerable even
> though you are hearing more of them. However, this same extended
> high frequency response will make adjacent frequency splatter less
> tolerable.
>

> With the low frequency response extended, strong full signals
sound
> more pleasant, but lightning crashes will be much more annoying.
>
> So you must ponder what it is that you wish to achieve.
>
> To increase the low frequency response:
>
> Change C-13 (.047) to 1 uf. The + lead of C-13 should go toward
the
> collector of Q-5 if the replacement is polarized.
>
> Change C-14 (.47) to 1 uf. The + lead should go to R-16 (3.3K
orange,
> orange, red). This resistor leads to the base of Q-5.
>
> Change C-8 to as high of a value as you can up to 2200 uf. Be sure
> that the voltage is the same or greater than the original. Be VERY
> sure to have the + side of the junction of R-11 and R-12 as was
the
> original.
>
> For extended highs:
>
> Change C-27 (.01) to .001.
>
> Choice of speaker and headphones is important. I prefer a 6 or 8-
inch
> speaker in a wooden open back baffle. Wooden speakers from the
olde
> inexpensive stereos that had turntables in them often work. The
> Goodwill store, flea markets, and roadside shopping on trash day
> often yields bargains. A capacitor that is in series with the
> speaker can be switched in and out to turn the extended lows on
and
> off. This can be located in the speaker.
>
> Another word about radio modifications:
>
> Do not feel like you have to do every modification that you hear
> about. There are two kinds of modifications.
>
> Necessary modifications:
>
> These correct serious factory production or design errors. Such is
> the case with the reversed wire connections on the MC-60 mikes.
>
> Modifications for preferences:
>
> These are unnecessary and are only done to make a rig match your

> preferences. The changes I have listed here fall into this
category.
> Consider your level of competence before attempting any
> modifications. The TS-520 works great as is. The olde adage "if it
> ain't broke, don't fix it" is good advice.
>
> This paper was in response to some inquiries about modifications
to
> the TS-520 transmit and receive audio circuits. It is also useful
in
> tracing and understanding these circuits.
>
> I am not responsible for Murphy's law or any disasters. Modify at
> your own risk!
>
> Vy 73, Walt N9WB
>

9813. Re: [TS-520_820_530_830] TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 13:40:10 UTC
From: n9wb
Topic: 9801 Message: 9813

I should have read in the subject line that the display did not work. Is the dummy plug securely in the VFO socket on the back ?
Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 8:07 AM
Subject: Re: [TS-520_820_530_830] TS-530s NoDisplay or RX

I think that the resistors you are referring to are the ones that go to the plate caps. these are parasitic chokes. The wire around them rejects VHF parasitic and the resister part serves as a reject load and turns the parasitic energy to heat. Does the read out work?

Vy 73, Walt N9WB

----- Original Message -----
From: Bob M
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 2:05 AM
Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX

G'day All,

My TS-530s has decided to play Dead. Worked great on Tuesday night but when I turned it on this morning the Dial lights came on the leds work but nada no one was home.

I've tightend all the board screws, cleaned the band switch and pots, checked SG switch, the HV resistors read 5 ohm and 3 ohms. The one thing I find strange was that they were overwound by 4 turns of bare wire (like the Resistor tails) connected at each end I would have assumed that this would have created a dead short bypassing the resistors. Is this normal??

The unit has worked almost flawlessly for the paost 2 1/2 years. once or twice no display or RX for 30 Seconds to 1 min then fine again.

I have replaced the 12BY7A with 2 others same result.

I'm only at a basic level for poject but would like any advise that will help me get it going again.

Regards Bob M. VK4HAY

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9814. RE: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 13:28:31 UTC
From: Rick May
Topic: 9703 Message: 9814

Sorry Walt,

Gordon and Max cleaned me out ....Well, I do have one left..If someone comes up short and needs a single 1N5711, let me know.

Rick KC0HH

Walter Milton <wmilton@...> wrote:
Rick,

If you have any extra left. I would like to get enough to do the mod on my TS-830S.

Thanks,
Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick May
Sent: Sunday, October 01, 2006 3:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Gordon,

When I ordered them, I stipulated to the guy on the phone I wanted 1% tolerance if he had them. I had wanted 1N6263 diodes as listed in AG6K's article, but he told me the 1N5711's were very good...and had a higher voltage rating. He was right ...The junction resistance and capacitance differences are nill. I used a B&K 810C and a Fluke 77 which are supposed to be accurate to .5% (that is 'point' 5%) so the diodes are matched close enough for our use. The only problem ordering them is dealing with the minimum order most electronic sellers have. You probably won't need 25 or 50 of them.

73' Rick KC0HH

Gordon <n6wk@... <mailto:n6wk%40n6wk.com> > wrote: Thanks Rick,
I also appreciate you selling me the Diodes.
Walt was wondering if they were matched. I didn't check them, I just installed them and checked the Carrier adjustment. I had to tweak L19 and L20 just a bit but the Carrier balance was still right on. I am now debating whether to go ahead and swap out the Balanced Modulator diodes as well.

Were the Diodes matched ? They sure do work nice in the 830.

Thanks again,
Gordon
N6WK

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> I am glad you saw the same improvement I did. I have been amazed
since I did the Shottkey mod on my 830S....The noise floor is
definitely better and the 830S' white noise level doesn't give me a
headache while listening with headphones now. I think after you make
the diode swap, the lack of phase noise in the 830S' receiver lets you
hear more signals.....The Shottkey diodes are a cheap fix.
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
>
> Gordon <n6wk@...> wrote: Today, I
opened up my TS-830S and decided to do the Schottky Diode Mod
> on the Product detector. I had already opened up the Audio by
> replacing C-106 with a .0015 cap . I also had replaced the Band switch
> Coupler with the ones from K4EAA.
> I installed the new diodes,(Thanks Rick) and the 100 ohm resistor.
> I then adjusted the voltage across the resistor with L-19 and L-20 to
> 600 Mv.
> I then tuned up on 20 meters. I worked a station in Portugal and
> Italy. They were strong and I received great reports. I then tuned
> across 3XM6JR. He was weak but workable. I tried calling a few times
> with the 830 barefoot, but was not able to break through the East
> Coast wall. So, I figured I would fire up the TS-2000 and my Amplifier
> to work him. To my surprise, I could NOT even copy him with the
> TS-2000. I switched back to the 830 and there he was. Still weak, but
> I could copy him, then back to the TS-2000 and he was too low in the
> Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> My Conclusion is, This Mod on the 830 is a great thing. It seems to
> lower the noise floor yet the response is Excellent.
> I might now have to replace some diodes in the TS-2000.
> I am impressed. I am now ready to sell this TS-830S (Gold Label) and
> look for another one to repair. After all, Repairing these rigs is my
> Hobby !
>
> 73,
> Gordon
> N6WK

>
>
>
>
>
>
>
>
> ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

9815. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 14:03:44 UTC
From: Rick May
Topic: 9703 Message: 9815

Allied Electronics...I got them about a year ago and now I see they are about $1 each. These were made by Vishay...I don't know if all the semi-conductor manufacturers hold as close tolerance as Vishay or if it is just a German thing but these were great..Almost perfect uniformity.
I also see some Vishay made 5711 lots on E-Bay from a guy in Placentia,Ca. . I have bought some things from him...They would only be about 13 cents each this way.
I had originally wanted the HP Shottkey diodes Rich Measures talks about in his article but they were almost $5 each. A little stiff for 8 of them plus shipping.

Rick KC0HH

Gordon <n6wk@...> wrote:
Rick, Where did you purchase them from? I might just make an order,
then I can sell them back to the guys in small quantities ,as you are
doing. Not for Profit, just for convenience and to help out.

73,
Gordon

Recent Activity

14
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Share Your Resume
Show off your
talent and skills.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9816. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 14:11:17 UTC
From: Kevin Hunter
Topic: 9760 Message: 9816

Gordon - No low voltage type problems when the xformer saver is not in line. I will begin checking the components on that rectifier board. I have not done that so far. Thanks for the guidance. I'll keep you posted.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks for the info Kevin,
> With the Transformer saver in line, I would expect you to experience
> the effects of Low Voltage on Transmit because of the resistance in
> the light bulb to the circuit. The rig is Not seeing full Voltage
> under Load.
> If you remove the Transformer saver, do you experience the same
effects ?
> I am studing the circuit and think we might want to start looking at
> the Rf Unit. Have you checked all the Components on the Rectifier
> board ?? They are all important to everything eles down the line .
> Those parts seem to fail Often !
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - I am able to back the CARRIER control down enough to get the
> > plate current under control. I have to turn it way down though. I
> > found that if there is any ALC deflection, the plate current becomes
> > excessive. I backed the ALC down enough to keep the plate current
> > at 250mA. I also had to keep the LOAD cap fully meshed. The output
> > was about 60 watts. At 350mA grid current, the output was 110 watts.
> >
> > R2 thru R5 are definitely 20 ohms. I had to replace them because the
> > other ones were destroyed. R6 checked 2.719k.
> >
> > The light bulb does not glow very bright during TX in the TUNE
> > position, but the rig seems to be suffering effects of low voltage.
> > I notice the PLL appears to lose lock if I increase the carrier
> > control very much.
> >
> > I checked the line fuse and found someone had a 4 amp fuse in there.
> > I was glad to see that. It has never blown, so I feel none of
> > this incient has stressed the transformer very much.

> >
> > I'm not sure how much it would solve, but I would feel better if I
> > could find whatever it was that I heard arc.
> >
> > Thanks for your help on this so far. I was off work today, but go
> > back tomorrow, so I'll have to put this project on hold for a couple
> > of days.
> >
> > Kevin
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hmmm,
> > > Very Interesting. I checked the 830 I have here and here is what I
> > > read. The SG in receive is 235 in USB and the FG is -92 USB in RX
> > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and
85 in
> > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > Your Voltages appear higher across the Board.
> > > Let me study the schematic some more and get back to you.
> > > Perhaps some of the other Guys on here have some Ideas also. I am
> > > puzzled on this. If you back the Carrier control off, can you get
> > > the plate current to stop pegging or does the rig appear to take off
> > > on its own ?? I am starting to wonder If clif was on to something in
> > > the Meter circuit, although you stated that R6 and r10 checked OK.
> > > Does your light bulb (in the Transformer saver) Glow Really
bright in
> > > Tune Position during transmit ?? R2, R3, R4, and R5 all checked ok
> > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
am not
> > > doubting you, just double checking.
> > >
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > Gordon - I did build the transformer saver.
> > > >
> > > > Here are the voltages...
> > > >
> > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE
> position
> > > > on TX.
> > > >
> > > > FG= -64V in LSB or TUNE Position during TX

> > > >
> > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > >
> > > > As for actual output. I can't answer that. Since the plate
> current
> > > > goes off scale when I key it in CW mode, I've never left it
> keyed more
> > > > than about half a second.
> > > >
> > > > ALC appears to be within spec in the TUNE position.
> > > >
> > > > Kevin
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Hi Keith,
> > > > > Ok, Those voltages look OK in receive. Just what I would
> > expect to
> > > > > see in a normal working 830.
> > > > > Did you build the Transformer saver?
> > > > > The reason I ask is that I want you to take some measurements
> > while in
> > > > > Transmit mode Very quickly, But I don't want you to burn
> > anything up.
> > > > > I also forgot, Do you get ALC readings in tune? I think you
> said Yes
> > > > > before. Next question, what kind of Ouput do you get when
it's all
> > > > > tuned up?
> > > > >
> > > > > Gordon
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > > wrote:
> > > > > >
> > > > > > SG = 267V
> > > > > > FG = -104V
> > > > > > DRV = I was able to see a very low level AC voltage, about
> > > 200mV. It
> > > > > > appeared to be unaffected by meshing the drive capacitor.
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > > > >
> > > > > > > Kevin, ,
> > > > > > > lets start on any band in receive. I just want to get some

> > > base line
> > > > > > > figures. I would suggest doing it with the heaters on.
Adfter
> > > you
> > > > > > > get those, we can evaluate them and go from there.
> > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
there as I
> > > > am sure
> > > > > > > you are aware, even when just receiving. Always keep one
hand
> > > behind
> > > > > > you.
> > > > > > >
> > > > > > > Gordon
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > > wrote:
> > > > > > > >
> > > > > > > > Gordon - I did replace R7 and R8 at the same time as I
> > > > replaced the
> > > > > > > > others. I checked them out of circuit and they are
> still 100
> > > > ohms.
> > > > > > > > No signs of heating or cracking.
> > > > > > > >
> > > > > > > > I am familiar with the problem of the cracked shaft
couplers
> > > > on the
> > > > > > > > bandswitch. These don't show any signs of cracking. I
> > assume
> > > > > > > > someone must have replaced them somewhere along the way.
> > > > > > > >
> > > > > > > > I will check R6 and R10.
> > > > > > > >
> > > > > > > > You might give me some guidance on checking those voltages
> > > on the
> > > > > > > > final board. I don't have any problem making the
> > > > measurement, but
> > > > > > > > tell me what condition the transmitter should be in
when I'm
> > > > taking
> > > > > > > > the reading. I'm refering to things like mode switch
> > position,
> > > > > > TX or
> > > > > > > > RX, etc.
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>

> > > wrote:
> > > > > > > > >
> > > > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma
in tune
> > > > > position.
> > > > > > > > > > Ok next question, What do R7 and R8 ohm out at under the
> > > finals
> > > > > > ? they
> > > > > > > > > > should be 100 ohm 1/2 watt. Did you replace those as
> well as
> > > > > the 20
> > > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > > Also, as Clif mentioned, check the resistors R6 and R10
> > in the
> > > > > final
> > > > > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > > > > Also, how is the bandswitch coupler inside the Final
cage?
> > > Is it
> > > > > > > > > > broken? Cracked ?
> > > > > > > > > > Can you take some voltage readings from the Final
> > board for
> > > > > us? If
> > > > > > > > > > so, What is the voltage on the SG terminal, then on
> the DRV
> > > > > terminal
> > > > > > > > > > also the FG terminal.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Gordon - The idle bias is now up around 150 mA. I
> had it
> > > > > adjusted to
> > > > > > > > > > 60mA before I started having problems. I
> re-adjusted it
> > > > > down to
> > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > >
> > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > >
> > > > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > > >
> > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection within
> > > the ALC

> > > > > > > bracket
> > > > > > > > > > with the carrier control at approximately 9 o'clock
> > > position.
> > > > > > > > > > >
> > > > > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > Kevin
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > <n6wk@>
> > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Kevin,
> > > > > > > > > > > What does your ip meter show for idle bias in USB
> > > when you
> > > > > > > key the
> > > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC and the
> > plate
> > > > > > current
> > > > > > > > > > > read in Tune mode? What does your plate voltage
> > show? You
> > > > > > might want
> > > > > > > > > > > to hook up a transformer saver while you figure this
> > out.
> > > > > > There is
> > > > > > > > > > > directions on building one in the Files section by
> Walt
> > > > > N9WB.
> > > > > > > > > > > What brand and number tubes did you install? The
> > chinese
> > > > > > 6146's are
> > > > > > > > > > > known to Short/Flash so they are not a good choice.
> > > > > > > > > > >
> > > > > > > > > > > Gordon
> > > > > > > > > > > ---
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > > > <kj558@>
> > > > > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Gordon - You are correct. I do mean plate
current.
> > > > > > Thanks for
> > > > > > > > > > > clearing that up. I was thinking of my SB-1000
> > > amp and

> > > > > > > > > refering to
> > > > > > > > > > > > > grid current.
> > > > > > > > > > > > >
> > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Gordon"
> > > > <n6wk@>
> > > > > > > wrote:
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > > > > What do you mean " I keyed the radio and the
Grid
> > > > > > current went
> > > > > > > > > > off the
> > > > > > > > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > > > > > > > How are you measuring Grid current while
> Keying the
> > > > rig ?
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Just Curious and trying to get more info to
> help you
> > > > out.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > N6WK
> > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Kevin
> > > > Hunter"
> > > > > > > > > <kj558@>
> > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I've done some research on this forum before
> > > > making this
> > > > > > > > > post and
> > > > > > > > > > > > > > didn't run across a similar situation. I
hope
> > > > I've not
> > > > > > > > > overlooked
> > > > > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > I recently purchased this 830 so I don't
> know the
> > > > > > history on
> > > > > > > > > it...
> > > > > > > > > > > > > >

> > > > > > > > > > > > > > > I used it on the air and everything seemed
to be
> > > > working
> > > > > > > > > fine and
> > > > > > > > > > > > > > > > within specifications. An internal inspection
> > > > revealed
> > > > > > > > > someone had
> > > > > > > > > > > > > > > done the "super size" cathode resistor
mod. I
> > > > > > ordered the
> > > > > > > > > > > > > > > > appropriate resistors and replaced them to
avoid
> > > > future
> > > > > > > > > problems.
> > > > > > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I noticed the tubes were of different
> manufacture,
> > > > so I
> > > > > > > > > figured they
> > > > > > > > > > > > > > > were not a matched set. I went through the
> > > > > > procedure and
> > > > > > > > > neutralized
> > > > > > > > > > > > > > > the tubes in the event it had not been done.
> > > > > > Adjustment was
> > > > > > > > > required.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > After neutralization, I checked the output and
> > > > > > dipped the
> > > > > > > > > plate
> > > > > > > > > > > > > > > current. Everything appeared within spec and
> > > working
> > > > > > > > normally.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I walked away from the bench and made it about
> > three
> > > > > > steps
> > > > > > > > > when I
> > > > > > > > > > > > > > > heard an arc. I was hoping it didn't come
> > from the
> > > > > > 830,
> > > > > > > > > but knew
> > > > > > > > > > > > > > > that it probably did.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I went back and keyed the radio. The grid
> > current
> > > > > > went off
> > > > > > > > > scale. I
> > > > > > > > > > > > > > > looked and found my newly installed cathode
> > > > > > resistors were

> > > > > > > > > blown.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I assumed a tube had shorted. I checked the
> > > > tubes with
> > > > > > > > an ohm
> > > > > > > > > > > meter
> > > > > > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I ordered a new set of tubes and new
resistors.
> > > They
> > > > > > arrived
> > > > > > > > > today
> > > > > > > > > > > > > > > and I installed them.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Operation appears the same. The grid
> current is
> > > > > > still off
> > > > > > > > > scale,
> > > > > > > > > > > > > > > regardless of band.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I am unable to find any visual evidence to
> > indicate
> > > > > where
> > > > > > > > > the arc
> > > > > > > > > > > > > > > occurred.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I've been ham for over 20 years, but this
is my
> > > first
> > > > > > hybrid
> > > > > > > > > > > > rig. I'm
> > > > > > > > > > > > > > > not experienced at troubleshooting tube type
> gear.
> > > > I'd
> > > > > > > > > > > welcome any
> > > > > > > > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Assuming I get this problem hashed out,
> we'll move
> > > > on to
> > > > > > > > > > > another, less
> > > > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Prior to the problem with the excessive grid
> > current
> > > > > > > > occurring I
> > > > > > > > > > > > > > > noticed there was no TX and weak RX when the
> band
> > > > > switch

> > > > > > > > was in
> > > > > > > > > > > > the 28
> > > > > > > > > > > > > > > > MHz position, regardless of the position
of the
> > > .5 MHz
> > > > > > > > button.
> > > > > > > > > > > > Proper
> > > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > >
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
>

9817. 820 digital read-out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 14:19:24 UTC
From: Max Harelik
Topic: 9775 Message: 9817

Group-
I've come onto a working 820S (haven't spruced it up yet, but getting ready), and would like to find/install the digital read-out. Anyone have one that you would be willing to part with? Thanks.

73,
Max, K5OVW

9818. Re: [TS-520_820_530_830] Swapping diodes ?? (Terminating Resistor)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 14:35:38 UTC
From: Rick May
Topic: 9811 Message: 9818

Hi Max,
Rich Measures refers to it in his article. Look at number 11 http://www.somis.org/830.html where he refers to the lack of a terminating resistor adding to distortion.

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote:
I soon will be swapping the modulator and detector diodes but I have
seen reference to a 100 ohm resistor. Can anyone tell me what this
refers to?

Max VE3TMT

Recent Activity

13
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Be Interactive
Create a conver-
sation with blogs.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

9819. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 14:51:07 UTC
From: Rick May
Topic: 9703 Message: 9819

Hi Gordon,

The web site for Allied Electronics is http://www.alliedelec.com/

Rick KC0HH

Gordon <n6wk@...> wrote:
Rick, Where did you purchase them from? I might just make an order,
then I can sell them back to the guys in small quantities ,as you are
doing. Not for Profit, just for convenience and to help out.

73,
Gordon

Recent Activity

14
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Share Your Resume
Show off your
talent and skills.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9820. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 15:15:11 UTC
From: Rick May
Topic: 9703 Message: 9820

Hi Gordon,

In checking Allied, they show $1.51 each for a 1N5711 (part number 787-9990) but if you search on 1N5711-TR (part number 950-1588) they show a Vishay 1N5711 Shottkey for 10 cents each with no minimum order amount. I don't know what tolerance they would be . Maybe the 1% tolereance I wanted are that much more expensive. Makes sense. but for a dime each, order 16 and you should be able to match groups of 4....

Rick KC0HH

Gordon <n6wk@...> wrote:
Rick, Where did you purchase them from? I might just make an order,
then I can sell them back to the guys in small quantities ,as you are
doing. Not for Profit, just for convenience and to help out.

73,
Gordon

Recent Activity

14
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Share Your Resume
Show off your
talent and skills.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9821. Re: TS-830S & RTTY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 15:19:58 UTC
From: Jeroen
Topic: 9770 Message: 9821

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jeroen"
> <jeroen_aletta@> wrote:
>
> What are the best settings for mic gain, compression (probably
off)?
> > Should I reduce output power, and if yes, should I do this
tricking the
> > ALC (transverter jack) or by lowering the mic gain? Can xmit-rec
> > switching be done with vox?
>
> I run PSK and RTTY on my TS830 all the time. I tapped off the rx
audio
> before the AF GAIN pot so I get a fixed level going into the sound
> card. T-ing off the speaker out will work just as well just keep the
> levels set right in your computer mixer settings. I never use the
> compression and I run the mic gain at 4. I get very good signal
> reports as to the signal quality. I usually run about 40W out and
have
> good luck.
>
> Max VE3TMT
>

Gordon, Max and Julio: thanks. I will try some RTTY into my dummy
first, see how it works. Hope to meet some members of this group on
the air. Stay tuned October 21-22.

Jeroen PF1JM

9822. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 15:44:51 UTC
From: Bill Scurlock
Topic: 9703 Message: 9822

Hi Group.

Mouser has several different kinds of 1N5711 diodes for only a few cents each with no minimum order. You can go to www.mouser.com and search their catalog, or go there and get their 800 number and call them for help. Shipping will be the biggest cost, so you might want to order other items you need at the same time. As I recall they have the Vishay if that is what you want. Disclaimer - no connection with them - that's just where I found mine.

73, Bill, K5GCW
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 10:15 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Gordon,

In checking Allied, they show $1.51 each for a 1N5711 (part number 787-9990) but if you search on 1N5711-TR (part number 950-1588) they show a Vishay 1N5711 Shottkey for 10 cents each with no minimum order amount. I don't know what tolerance they would be . Maybe the 1% tolereance I wanted are that much more expensive. Makes sense. but for a dime each, order 16 and you should be able to match groups of 4....

Rick KC0HH

Gordon <n6wk@...> wrote:
Rick, Where did you purchase them from? I might just make an order,
then I can sell them back to the guys in small quantities ,as you are
doing. Not for Profit, just for convenience and to help out.

73,
Gordon

Recent Activity

14
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Share Your Resume
Show off your
talent and skills.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9823. TS830s needs work...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 15:54:41 UTC
From: David Rust
Topic: 9823 Message: 9823

Walt, Gordon, and others...

A divorce may be in my future, but I ordered the TS830s that had low output. I got it from Memphis Amateur in Memphis. I have dealt with Marshall for years, so I trust he judgment. He said the usual resistors needed be replaced, but they didn't have a tech any longer to do it, so its mine. He states the radio looks like new, and they traded for it on the mans word that it was a-ok. Finals were blown. Been too hot. Voltages all ok, but the output low.

It should arrive Friday UPS, if I'm not heard from again, send flowers....

(Just kidding, after 40+ years of this, she's not surprised by anything that shows up)

Now don't forget I'm going to be waving the white flag next week.
73 Dave W0DLR

[Non-text portions of this message have been removed]

9824. Selling Radios

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 16:06:06 UTC
From: Bill Scurlock
Topic: 9824 Message: 9824

I am going to the Belton Swapmeet this weekend to sell some radio equipment, and just thought I would put the info out to this group in case one of you might be interested. Some of you have helped me refurbish these Kenwoods over the last year, which is appreciated, and now I need to make space for some more retirement projects. Please contact me by direct email k5gcw@... if you have any interest in the following items, and we can exchange detail information: Kenwood TS-820S with VFO-820 and SP-820, Kenwood TS-530S, and Kenwood TS-830S. Other items: Icom 751A, Icom IC-2KL, and Eimac 3-500Z (new pair). Ship to lower 48 states only. Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

9825. Re: [TS-520_820_530_830] TS830s needs work...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 16:08:54 UTC
From: Bill Scurlock
Topic: 9823 Message: 9825

That's great Dave. Everybody needs a winter project.

73, Bill, K5GCW
----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 10:54 AM
Subject: [TS-520_820_530_830] TS830s needs work...

Walt, Gordon, and others...

A divorce may be in my future, but I ordered the TS830s that had low output. I got it from Memphis Amateur in Memphis. I have dealt with Marshall for years, so I trust he judgment. He said the usual resistors needed be replaced, but they didn't have a tech any longer to do it, so its mine. He states the radio looks like new, and they traded for it on the mans word that it was a-ok. Finals were blown. Been too hot. Voltages all ok, but the output low.

It should arrive Friday UPS, if I'm not heard from again, send flowers....

(Just kidding, after 40+ years of this, she's not surprised by anything that shows up)

Now don't forget I'm going to be waving the white flag next week.
73 Dave W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9826. RE: [TS-520_820_530_830] From KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 15:39:48 UTC
From: Jerry and Sandy Gaule
Topic: 8136 Message: 9826

Thank you very much...it does help...thank you all THX DE KE7GGV....73
take care...

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Wednesday, October 04, 2006 4:32 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] From KE7GGV

Forget the Heathkit oscillator. Connect a piece of coax (RG-58 or 59
stranded center is best You can also use shielded audio cable) from the
key to a 1/4 inch mono phone plug. Connect the center to the key
terminal that goes to the fixed contact on the key. Connect the shield
to the other key terminal that goes to the movable part. On the other
end connect the center of the coax to the terminal of the 1/4 inch mono
phone plug that goes to the tip. Connect the shield to the part that
goes to the outside of the plug.

When in CW on receive you will hear the sidetone of the 820 and can
practice code. When CW transmit, it will send CW.

Vy 73, Walt N9WB

----- Original Message -----
From: Jerry
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Tuesday, October 03, 2006 11:18 PM
Subject: [TS-520_820_530_830] From KE7GGV

Hello to all..I have a straight key connected to a HEATHKIT Practice
Oscillator...forgive me here.....it has two wires..connected to
it...what kind of jack would it take to connect to the TS-820S...or can
I run a cable from the headphone jack from the oscilator to the
rig...thank you for your time..THX DE KE7GGV...

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9827. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 16:57:21 UTC
From: Gordon
Topic: 9703 Message: 9827

Hi Rick,
I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers for $9.50 plus shipping. When I get them, I will put them in matched sets of 4 or 8. Then, I will be happy to sell them out to anyone who needs them.
Thanks for the info on where to get them.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Allied Electronics...I got them about a year ago and now I see they are about $1 each. These were made by Vishay...I don't know if all the semi-conductor manufacturers hold as close tolerance as Vishay or if it is just a German thing but these were great..Almost perfect uniformity.
> I also see some Vishay made 5711 lots on E-Bay from a guy in Placentia,Ca. . I have bought some things from him...They would only be about 13 cents each this way.
> I had originally wanted the HP Shottkey diodes Rich Measures talks about in his article but they were almost $5 each. A little stiff for 8 of them plus shipping.
>
> Rick KC0HH
>
> Gordon <n6wk@...> wrote:
> Rick, Where did you purchase them from? I might just make an order,
> then I can sell them back to the guys in small quantities ,as you are
> doing. Not for Profit, just for convenience and to help out.
>
> 73,
> Gordon
>
>
>
>
>
> Recent Activity
>
> 14
> New Members
>
> 6
> New Photos
>

> 3
> New Files
>
> Visit Your Group
> SPONSORED LINKS
>
> Ham radio
> Ham radio antenna
> Ham radio sales
> Ham radio store
> Ham radio outlet
>
> Y! GeoCities
> Share Your Resume
> Show off your
> talent and skills.
>
> Y! Toolbar
> Get it Free!
> easy 1-click access
> to your groups.
>
> Yahoo! Groups
> Start a group
> in 3 easy steps.
> Connect with others.
>
>
>
> .
>
>
>
>
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
call rates.
>
> [Non-text portions of this message have been removed]
>

9828. Re: TS830s needs work...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 17:00:44 UTC
From: Gordon
Topic: 9823 Message: 9828

Congratulations Dave,
I'm sure our XYL's understnad us by now. Mine has kept me for 33 years and still wants me around... (I think anyway)
Let us know when you receive it and dig into it.
73
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Walt, Gordon, and others...
>
> A divorce may be in my future, but I ordered the TS830s that had low output. I got it from Memphis Amateur in Memphis. I have dealt with Marshall for years, so I trust he judgment. He said the usual resistors needed be replaced, but they didn't have a tech any longer to do it, so its mine. He states the radio looks like new, and they traded for it on the mans word that it was a-ok. Finals were blown. Been too hot. Voltages all ok, but the output low.
>
> It should arrive Friday UPS, if I'm not heard from again, send flowers....
>
> (Just kidding, after 40+ years of this, she's not surprised by anything that shows up)
>
> Now don't forget I'm going to be waving the white flag next week.
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

9829. Re: [TS-520_820_530_830] TS830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 17:40:21 UTC
From: Ruben Echevarria
Topic: 9775 Message: 9829

I picked up a TS830S with the SP230 speaker, PC1 patch, MC50 mic for $366.00 through EBay.
The MC50 had no coiled mic cable but N5EBD helped me out with that.
The radio is now in use after a good clean up. The rest of the pieces are good to execellent.
So I'd say $250.00 for a working but low output TS830S is excellent. Go for it !!

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

9830. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 17:51:22 UTC
From: Peter A Markavage
Topic: 9760 Message: 9830

Since I haven't seen this mentioned: Is there a dummy load on the output; if there is, and you disconnect the cable from the back of the rig going to the dummy load, does the plate current change (Note: rig in transmit mode should only be on for a very brief moment), The point of all this is to make sure the output of the pi-network is terminated. You also want to make sure, if there is a cable between the rig output and the dummy load, it's neither shorted nor open. That would cause excessive plate current to flow, crazy readings, burnt out resistors, etc. I know this is "old school" but, since the 830 has a pi-network on the output, hanging a 75 or 100 watt bulb on the output can sometimes provide you a relative indicator of power output if any.

Also, I also didn't see this, what band are you doing this tests on and/or, have you tried doing these tests on any other band??

Pete, wa2cwa

On Wed, 04 Oct 2006 14:11:17 -0000 "Kevin Hunter" <kj558@...>
writes:
> Gordon - No low voltage type problems when the xformer saver is not
> in
> line. I will begin checking the components on that rectifier
> board.
> I have not done that so far. Thanks for the guidance. I'll
> keep
> you posted.
>
> Kevin

9831. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 17:45:35 UTC
From: Rick May
Topic: 9703 Message: 9831

HI Gordon,

That will work....Good price... I paid 35 cents apiece for the ones I bought last year and thought that was cheap. 100 of them will do quite a few radios. When I first powered my 830S up after swapping the diodes, I thought I had failed to re-connect something inside. The receiver was so much quieter. It really is a worthwile mod.

73' Rick KC0HH
Lamar, Colorado

Gordon <n6wk@...> wrote: Hi Rick,
I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
for $9.50 plus shipping. When I get them, I will put them in matched
sets of 4 or 8. Then, I will be happy to sell them out to anyone who
needs them.
Thanks for the info on where to get them.
73,
Gordon

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9832. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 14:07:33 UTC
From: Kevin Hunter
Topic: 9760 Message: 9832

Walt - The 130mA figure is taken in TX mode in the tune position. The
60mA figure is taken in TX mode in the LSB position with the mic gain
all the way down. The 150mA figure was the idle bias after I started
having problems with the rig and before I adjusted it back down to
60mA. Does this info help?

Kevin

n9wb wrote:
>
> I'm cornfused. How are you getting an idle bias of 60 ma and a plate
> current of 150 ma? The idle bias is cathode current. I don't know if
> you want to run it on receive much unless you have a light bulb in
> series with it. Remember, the voltages are still on the tubes. they
> could be sitting there running bunches of current and you would never
> know it.
>
> Walt N9WB
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, October 03, 2006 4:30 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
>
> Ok, Great.
> We'll diagnose this thing, component by component.. hi hi..
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Kevin Hunter" <kj558@...>
> wrote:
> >
> > I checked R6 and R10. They are within spec.
> >
> > Kevin
> >
> >
> > In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > Ok, Yes that is High. My 830 is only running 75 ma in tune position.
> > > Ok next question, What do R7 and R8 ohm out at under the finals ? they
> > > should be 100 ohm 1/2 watt. Did you replace those as well as the 20

> > > ohm 1/2 watt resistors ?
> > > Also, as Clif mentioned, check the resistors R6 and R10 in the final
> > > section as they are the resistors for the Meter IP.
> > > Also, how is the bandswitch coupler inside the Final cage? Is it
> > > broken? Cracked ?
> > > Can you take some voltage readings from the Final board for us? If
> > > so, What is the voltage on the SG terminal, then on the DRV terminal
> > > also the FG terminal.
> > >
> > > Gordon
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > Gordon - The idle bias is now up around 150 mA. I had it
> adjusted to
> > > > 60mA before I started having problems. I re-adjusted it down to
> > > > 60mA. Plate current still off scale.
> > > >
> > > > Plate voltage is about 925 volts without load.
> > > >
> > > > Ip in TUNE mode reads 130mA
> > > >
> > > > ALC in TUNE mode reads about 2/3rds deflection within the ALC
> bracket
> > > > with the carrier control at approximately 9 o'clock position.
> > > >
> > > > The replacement tubes are Sylvania brand 6146B's.
> > > >
> > > >
> > > > Kevin
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Kevin,
> > > > > What does your ip meter show for idle bias in USB when you
> key the
> > > > > mike ? Is it set to 60ma ? What does the ALC and the plate current
> > > > > read in Tune mode? What does your plate voltage show? You
> might want
> > > > > to hook up a transformer saver while you figure this out. There is
> > > > > directions on building one in the Files section by Walt N9WB.
> > > > > What brand and number tubes did you install? The chinese
> 6146's are
> > > > > known to Short/Flash so they are not a good choice.

> > > > >
> > > > > Gordon
> > > > > ---
> > > > >
> > > > >
> > > > > In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Kevin Hunter" <kj558@>
> > wrote:
> > > > > >
> > > > > > Gordon - You are correct. I do mean plate current. Thanks for
> > > > > > clearing that up. I was thinking of my SB-1000 amp and
> > > refering to
> > > > > > grid current.
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@>
> wrote:
> > > > > > >
> > > > > > > Hi Kevin,
> > > > > > > What do you mean " I keyed the radio and the Grid current went
> > > > off the
> > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > How are you measuring Grid current while Keying the rig ?
> > > > > > >
> > > > > > > Just Curious and trying to get more info to help you out.
> > > > > > >
> > > > > > > Gordon
> > > > > > > N6WK
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Kevin Hunter"
> > <kj558@>
> > > > > > > wrote:
> > > > > > >
> > > > > > > I've done some research on this forum before making this
> > > post and
> > > > > > > didn't run across a similar situation. I hope I've not
> > > overlooked
> > > > > > > something that has been addressed before.
> > > > > > >
> > > > > > > I recently purchased this 830 so I don't know the history on
> > > it...
> > > > > > >
> > > > > > > I used it on the air and everything seemed to be working
> > > fine and

> > > > > > > > within specifications. An internal inspection revealed
> > > > someone had
> > > > > > > > done the "super size" cathode resistor mod. I ordered the
> > > > > > > > appropriate resistors and replaced them to avoid future
> > > > problems.
> > > > > > > > Rig still working FB after install.
> > > > > > > >
> > > > > > > > I noticed the tubes were of different manufacture, so I
> > > > figured they
> > > > > > > > were not a matched set. I went through the procedure and
> > > > > neutralized
> > > > > > > > the tubes in the event it had not been done.
> Adjustment was
> > > > > > required.
> > > > > > > >
> > > > > > > > After neutralization, I checked the output and dipped the
> > plate
> > > > > > > > current. Everything appeared within spec and working
> > normally.
> > > > > > > >
> > > > > > > > I walked away from the bench and made it about three steps
> > > when I
> > > > > > > > heard an arc. I was hoping it didn't come from the 830,
> > > but knew
> > > > > > > > that it probably did.
> > > > > > > >
> > > > > > > > I went back and keyed the radio. The grid current went off
> > > > scale. I
> > > > > > > > looked and found my newly installed cathode resistors were
> > > blown.
> > > > > > > >
> > > > > > > > I assumed a tube had shorted. I checked the tubes with
> > an ohm
> > > > > meter
> > > > > > > > and didn't find any shorts.
> > > > > > > >
> > > > > > > > I ordered a new set of tubes and new resistors. They
> arrived
> > > > today
> > > > > > > > and I installed them.
> > > > > > > >
> > > > > > > > Operation appears the same. The grid current is still off
> > > scale,
> > > > > > > > regardless of band.
> > > > > > > >
> > > > > > > > I am unable to find any visual evidence to indicate where
> > > the arc
> > > > > > > > occurred.
> > > > > > > >
> > > > > > > > I've been ham for over 20 years, but this is my first hybrid

> > > > > rig. I'm
> > > > > > > > > not experienced at troubleshooting tube type gear. I'd
> > > > > welcome any
> > > > > > > > > theories or suggestions anyone cares to offer.
> > > > > > > > >
> > > > > > > > > Assuming I get this problem hashed out, we'll move on to
> > > > > another, less
> > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > >
> > > > > > > > > Prior to the problem with the excessive grid current
> > occurring I
> > > > > > > > > noticed there was no TX and weak RX when the band switch
> > was in
> > > > > > the 28
> > > > > > > > > MHz position, regardless of the position of the .5 MHz
> > button.
> > > > > > Proper
> > > > > > > > > operation on all other postitions.
> > > > > > > > >
> > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > Holts Summit, MO
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9833. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 19:32:57 UTC
From: w5rkl
Topic: 9760 Message: 9833

If you remove the 12BY7 driver tube what plate current reading do you get in TX? Doing this will remove any/all (hopefully) input drive to the final stage.

This arcing problem sounds so much like what happened to my 820. The difference is your receive section still works (I'm assuming it does), mine doesn't.

My 820 was simply sitting on the desk, in receive mode, and within a minute of powering it on, zzzzziitttt and the smell of burnt resistor and the 820 shut down, nothing lit not even the pilot lamps. It was as though the power plug was pulled from the wall.

I pulled the cover off the bottom and the 10 ohm resistors consisting of two 20 ohm 1/2 watt resistors in parallel, each resistor was cracked from one end of the resistor to the other. I replaced the resistors with single 10 ohm 1/2 watt resistors and everything powered up fine, no arcing nothing. The receive sensitivity was down by 20 db with the calibrator. Keyed the 820 into a dummy load, good power out and normal plate current. Unkeyed and receive was history, nothing, and no audio. The lamps, heaters, meter and front panel LEDs all work fine. The remote VFO has not been plugged in but pins 8 and 9 were shorted on the rear 9 pin socket otherwise the internal VFO wouldn't work.

For what ever reason, the arcing took out something in the receiver section. The VCO, VFO, PLL and hetrodyne oscillators are all working properly, checked them all with a scope, frequency counter and by also listening on a seperate receiver. If one or more were not working the transmitter wouldn't work since they are used in both receive and transmit. However, absolutely no receive. The audio amp works fine as I can hear the transmit audio through the internal/external speaker with the "MON" switch turned "ON".

I would be interested to see the outcome of this problem as it may help me find my 820 receive problem.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Since I haven't seen this mentioned: Is there a dummy load on the output;
> if there is, and you disconnect the cable from the back of the rig going

> to the dummy load, does the plate current change (Note: rig in transmit
> mode should only be on for a very brief moment), The point of all
this is
> to make sure the output of the pi-network is terminated. You also
want to
> make sure, if there is a cable between the rig output and the dummy
load,
> it's neither shorted nor open. That would cause excessive plate current
> to flow, crazy readings, burnt out resistors, etc. I know this is "old
> school" but, since the 830 has a pi-network on the output, hanging a 75
> or 100 watt bulb on the output can sometimes provide you a relative
> indicator of power output if any.
>
> Also, I also didn't see this, what band are you doing this tests on
> and/or, have you tried doing these tests on any other band??
>
> Pete, wa2cwa
>
> On Wed, 04 Oct 2006 14:11:17 -0000 "Kevin Hunter" <kj558@...>
> writes:
> > Gordon - No low voltage type problems when the xformer saver is not
> > in
> > line. I will begin checking the components on that rectifier
> > board.
> > I have not done that so far. Thanks for the guidance. I'll
> > keep
> > you posted.
> >
> > Kevin
>

9834. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 21:11:37 UTC
From: Gordon
Topic: 9703 Message: 9834

Thanks Rick,
I agree about the fix. This Radio hears REALLY great now after the fix and alignment.
If you ever need any diodes, just drop me a note.
I should have them in 2 days as the seller is close and already notified me they will ship tomorrow.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> HI Gordon,
>
> That will work....Good price... I paid 35 cents apiece for the ones I bought last year and thought that was cheap. 100 of them will do quite a few radios. When I first powered my 830S up after swapping the diodes, I thought I had failed to re-connect something inside. The receiver was so much quieter. It really is a worthwile mod.
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Gordon <n6wk@...> wrote: Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
>
>
>
>
>
>
>
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

9835. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 21:12:32 UTC
From: Gordon
Topic: 9760 Message: 9835

Great suggestions there Pete.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Since I haven't seen this mentioned: Is there a dummy load on the
output;
> if there is, and you disconnect the cable from the back of the rig going
> to the dummy load, does the plate current change (Note: rig in transmit
> mode should only be on for a very brief moment), The point of all
this is
> to make sure the output of the pi-network is terminated. You also
want to
> make sure, if there is a cable between the rig output and the dummy
load,
> it's neither shorted nor open. That would cause excessive plate current
> to flow, crazy readings, burnt out resistors, etc. I know this is "old
> school" but, since the 830 has a pi-network on the output, hanging a 75
> or 100 watt bulb on the output can sometimes provide you a relative
> indicator of power output if any.
>
> Also, I also didn't see this, what band are you doing this tests on
> and/or, have you tried doing these tests on any other band??
>
> Pete, wa2cwa
>
> On Wed, 04 Oct 2006 14:11:17 -0000 "Kevin Hunter" <kj558@...>
> writes:
> > Gordon - No low voltage type problems when the xformer saver is not
> > in
> > line. I will begin checking the components on that rectifier
> > board.
> > I have not done that so far. Thanks for the guidance. I'll
> > keep
> > you posted.
> >
> > Kevin
>

9836. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 21:33:26 UTC
From: Gordon
Topic: 9760 Message: 9836

Mike,
Have you checked Q2 on the RF unit ? Do you get any S meter movement?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> If you remove the 12BY7 driver tube what plate current reading do you
> get in TX? Doing this will remove any/all (hopefully) input drive to
> the final stage.
>
> This arcing problem sounds so much like what happened to my 820. The
> difference is your receive section still works (I'm assuming it does),
> mine doesn't.
>
> My 820 was simply sitting on the desk, in receive mode, and within a
> minute of powering it on, zzzzziitttt and the smell of burnt resistor
> and the 820 shut down, nothing lit not even the pilot lamps. It was as
> though the power plug was pulled from the wall.
>
> I pulled the cover off the bottom and the 10 ohm resistors consisting
> of two 20 ohm 1/2 watt resistors in parallel, each resistor was
> cracked from one end of the resistor to the other. I replaced the
> resistors with single 10 ohm 1/2 watt resistors and everything powered
> up fine, no arcing nothing. The receive sensitivity was down by 20 db
> with the calibrator. Keyed the 820 into a dummy load, good power out
> and normal plate current. Unkeyed and receive was history, nothing,
> and no audio. The lamps, heaters, meter and front panel LEDs all work
> fine. The remote VFO has not been plugged in but pins 8 and 9 were
> shorted on the rear 9 pin socket otherwise the internal VFO wouldn't
work.
>
> For what ever reason, the arcing took out something in the receiver
> section. The VCO, VFO, PLL and hetrodyne oscillators are all working
> properly, checked them all with a scope, frequency counter and by also
> listening on a seperate receiver. If one or more were not working the
> transmitter wouldn't work since they are used in both receive and
> transmit. However, absolutely no receive. The audio amp works fine as
> I can hear the transmit audio through the internal/external speaker
> with the "MON" switch turned "ON".
>
> I would be interested to see the outcome of this problem as it may
> help me find my 820 receive problem.
>

> 73's,
>
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@> wrote:
> >
> > Since I haven't seen this mentioned: Is there a dummy load on the
> output;
> > if there is, and you disconnect the cable from the back of the rig
going
> > to the dummy load, does the plate current change (Note: rig in
transmit
> > mode should only be on for a very brief moment), The point of all
> this is
> > to make sure the output of the pi-network is terminated. You also
> want to
> > make sure, if there is a cable between the rig output and the dummy
> load,
> > it's neither shorted nor open. That would cause excessive plate
current
> > to flow, crazy readings, burnt out resistors, etc. I know this is "old
> > school" but, since the 830 has a pi-network on the output, hanging
a 75
> > or 100 watt bulb on the output can sometimes provide you a relative
> > indicator of power output if any.
> >
> > Also, I also didn't see this, what band are you doing this tests on
> > and/or, have you tried doing these tests on any other band??
> >
> > Pete, wa2cwa
> >
> > On Wed, 04 Oct 2006 14:11:17 -0000 "Kevin Hunter" <kj558@>
> > writes:
> > > Gordon - No low voltage type problems when the xformer saver is not
> > > in
> > > line. I will begin checking the components on that rectifier
> > > board.
> > > I have not done that so far. Thanks for the guidance. I'll
> > > keep
> > > you posted.
> > >
> > > Kevin
> >
>

9837. Re: TS-520 Crystal Change

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 21:53:30 UTC
From: baumbrent
Topic: 9679 Message: 9837

I'm bringing this post back to the front of the group. I should receive my new crystals today. Does anyone have any best practices solutions for getting the board out, replacing the crystals or retuning the oscillator?

Thanks,
K7MEI Brent

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent" <brentbaum5323@...> wrote:
>
> I opened up my 520SE to replace the 11m crystals with the proper
> crystals for 10m. It appears to me that the easiest way to do it,
> because the Osc/Crystal board is at the front of the pack, is to
> remove the entire Oscillator/coil unit from the radio. I can then
> replace the crystals without having to remove/unsolder the board from
> the chassis. However, the selector shaft and wafer board rods run
> through this whole assembly as well.
>
> My questions are is there a better way to replace the crystals? Is
> there a best method for removing the mode selector shaft and wafer
> board rods?
>
> Thanks,
> Brent, K7MEI
>

9838. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 22:18:12 UTC
From: Max Harelik
Topic: 9703 Message: 9838

Gordon, is this mod good for the 820 & 530? If so, I'd like to get some diodes from you. Thanks.

73,
Max, K5OVW

Gordon wrote:

> Thanks Rick,
> I agree about the fix. This Radio hears REALLY great now after the
> fix and alignment.
> If you ever need any diodes, just drop me a note.
> I should have them in 2 days as the seller is close and already
> notified me they will ship tomorrow.
> 73,
> Gordon
>

9839. Anyone looking for an 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 22:43:05 UTC
From: max_ve3tmt
Topic: 9839 Message: 9839

I called a buddy listing a TS830 with digital VFO here in Ontario. I am taking the VFO but he still has the 830 for sale. He would like to get $425 CDN (about $375 US) for it. He says it is in excellent condition. I would think shipping would be on top of that from Otario. I would take it, but I don't think I could sneak it into the house!

Contact me off board if interested.

Max VE3TMT

9840. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 23:36:37 UTC
From: N6WK
Topic: 9703 Message: 9840

Max, I know it is good for the 820, so I can only assume it is good for the 530 also.

The Diodes are only going to be 11 cents each plus shipping, But I need to receive them and Match them before sending them out.

73,
Gordon
N6WK

Max Harelik wrote:

> Gordon, is this mod good for the 820 & 530? If so, I'd like to get some
> diodes from you. Thanks.
>
> 73,
> Max, K5OVW
>
> Gordon wrote:
>
> > Thanks Rick,
> > I agree about the fix. This Radio hears REALLY great now after the
> > fix and alignment.
> > If you ever need any diodes, just drop me a note.
> > I should have them in 2 days as the seller is close and already
> > notified me they will ship tomorrow.
> > 73,
> > Gordon
> >
>
>

[Non-text portions of this message have been removed]

9841. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-04 23:36:06 UTC
From: Ed Berbari
Topic: 9703 Message: 9841

Gordon,

Kind of a dumb question. What do you measure to match diodes? Just curious.

Ed, W9EJB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 12:57 PM
Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Rick,
I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
for $9.50 plus shipping. When I get them, I will put them in matched
sets of 4 or 8. Then, I will be happy to sell them out to anyone who
needs them.
Thanks for the info on where to get them.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Allied Electronics...I got them about a year ago and now I see they
are about $1 each. These were made by Vishay...I don't know if all the
semi-conductor manufacturers hold as close tolerance as Vishay or if
it is just a German thing but these were great..Almost perfect
uniformity.
> I also see some Vishay made 5711 lots on E-Bay from a guy in
Placentia,Ca. . I have bought some things from him...They would only
be about 13 cents each this way.
> I had originally wanted the HP Shottkey diodes Rich Measures
talks about in his article but they were almost $5 each. A little
stiff for 8 of them plus shipping.
>
> Rick KC0HH
>
> Gordon <n6wk@...> wrote:
> Rick, Where did you purchase them from? I might just make
an order,
> then I can sell them back to the guys in small quantities ,as you are
> doing. Not for Profit, just for convenience and to help out.
>
> 73,
> Gordon
>

>
>
>
> Recent Activity
>
> 14
> New Members
>
> 6
> New Photos
>
> 3
> New Files
>
> Visit Your Group
> SPONSORED LINKS
>
> Ham radio
> Ham radio antenna
> Ham radio sales
> Ham radio store
> Ham radio outlet
>
> Y! GeoCities
> Share Your Resume
> Show off your
> talent and skills.
>
> Y! Toolbar
> Get it Free!
> easy 1-click access
> to your groups.
>
> Yahoo! Groups
> Start a group
> in 3 easy steps.
> Connect with others.
>
>
>
> .
>
>
>
>
>
> ---
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
call rates.
>

> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9842. RE: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 00:49:31 UTC
From: William Bottger
Topic: 9703 Message: 9842

Well, long ago when I was in school. We used a special curve tracing oscilloscope that would display the diode/transistor performance characteristics. In your case, there should be a technical data sheet available for the devices you have recently purchased at the manufacture's and/or distributor's web sites. (Implication here is that if the manufacture states that the whole batch is within 0.0001 % or better then the whole batch is pretty much already matched. IMHO) Here is an interesting web page for your consideration:
http://www.fullnet.com/u/tomg/gooteect.htm

Best Regards,

Bill, KI4CYM

v v v VOICE MAIL v v v

> 334-262-4601 <

^ ^ ^ ^ ^ ^ ^ ^ ^

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ed Berbari
Sent: Wednesday, October 04, 2006 5:36 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Gordon,

Kind of a dumb question. What do you measure to match diodes? Just curious.

Ed, W9EJB

----- Original Message -----
From: Gordon
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Wednesday, October 04, 2006 12:57 PM
Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Rick,
I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers for $9.50 plus shipping. When I get them, I will put them in matched sets of 4 or 8. Then, I will be happy to sell them out to anyone who needs them.
Thanks for the info on where to get them.
73,
Gordon

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Allied Electronics...I got them about a year ago and now I see they
are about $1 each. These were made by Vishay...I don't know if all the
semi-conductor manufacturers hold as close tolerance as Vishay or if
it is just a German thing but these were great..Almost perfect
uniformity.
> I also see some Vishay made 5711 lots on E-Bay from a guy in
Placentia,Ca. . I have bought some things from him...They would only
be about 13 cents each this way.
> I had originally wanted the HP Shottkey diodes Rich Measures
talks about in his article but they were almost $5 each. A little
stiff for 8 of them plus shipping.
>
> Rick KC0HH
>
> Gordon <n6wk@...> wrote:
> Rick, Where did you purchase them from? I might just make
an order,
> then I can sell them back to the guys in small quantities ,as you are
> doing. Not for Profit, just for convenience and to help out.
>
> 73,
> Gordon
>
>
>
>
> Recent Activity
>
> 14
> New Members
>
> 6
> New Photos
>
> 3
> New Files
>
> Visit Your Group
> SPONSORED LINKS
>
> Ham radio
> Ham radio antenna
> Ham radio sales
> Ham radio store
> Ham radio outlet
>
> Y! GeoCities
> Share Your Resume

> Show off your
> talent and skills.
>
> Y! Toolbar
> Get it Free!
> easy 1-click access
> to your groups.
>
> Yahoo! Groups
> Start a group
> in 3 easy steps.
> Connect with others.
>
>
>
> .
>
>
>
>
>
> ---
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
call rates.
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9843. RE: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 01:00:09 UTC
From: dave@zievid.com
Topic: 9703 Message: 9843

I had the same question and did a little web searching. I found this text at http://pavouk.org/hw/leachamp/en_index.html:

Zener Diode Matching

The zener voltage of a diode can easily be measured by connecting a resistor in series with it on an electronic breadboard and connecting a bench power supply across the series combination. The power supply voltage should be set so that the current through the diode is 3.3 mA. If you don't have a current meter, the voltage across the resistor should measure 3.3 x R, where R is in kohms. For example, the voltage across a 2 kohm should be 6.6 V. Once the current is set, the dc voltage across the zener diode can be measured with a voltmeter. For example, if you have +15 V and -15 V supplies, connect the diode in series with a 3 kohm resistor across the two outputs and measure the diode voltage. If you get the diode backward, the resistor will get hot.

While this is for zener diodes, I imagine the same approach could be used for the Schottky, but you'd be measuring much lower forward voltages (and using lower source voltages).

- Dave
W6OT

> Well, long ago when I was in school. We used a special curve tracing
> oscilloscope that would display the diode/transistor performance
> characteristics. In your case, there should be a technical data sheet
> available for the devices you have recently purchased at the manufacture's
> and/or distributor's web sites. (Implication here is that if the
> manufacture states that the whole batch is within 0.0001 % or better then
> the whole batch is pretty much already matched. IMHO) Here is an
> interesting web page for your consideration:
> http://www.fullnet.com/u/tomg/gooteect.htm
>
>
>
> Best Regards,
>
> Bill, KI4CYM
>
> v v v VOICE MAIL v v v
>
>> 334-262-4601 <
>
> ^ ^ ^ ^ ^ ^ ^ ^ ^
>

>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ed Berbari
> Sent: Wednesday, October 04, 2006 5:36 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
>
> Gordon,
>
> Kind of a dumb question. What do you measure to match diodes? Just
> curious.
>
> Ed, W9EJB
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 12:57 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
> Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>>
>> Allied Electronics...I got them about a year ago and now I see they
> are about $1 each. These were made by Vishay...I don't know if all the
> semi-conductor manufacturers hold as close tolerance as Vishay or if
> it is just a German thing but these were great..Almost perfect
> uniformity.
>> I also see some Vishay made 5711 lots on E-Bay from a guy in
> Placentia,Ca. . I have bought some things from him...They would only
> be about 13 cents each this way.
>> I had originally wanted the HP Shottkey diodes Rich Measures
> talks about in his article but they were almost $5 each. A little
> stiff for 8 of them plus shipping.
>>
>> Rick KC0HH

>>
>> Gordon <n6wk@...> wrote:
>> Rick, Where did you purchase them from? I might just make
> an order,
>> then I can sell them back to the guys in small quantities ,as you are
>> doing. Not for Profit, just for convenience and to help out.
>>
>> 73,
>> Gordon
>>
>>
>>
>>
>> Recent Activity
>>
>> 14
>> New Members
>>
>> 6
>> New Photos
>>
>> 3
>> New Files
>>
>> Visit Your Group
>> SPONSORED LINKS
>>
>> Ham radio
>> Ham radio antenna
>> Ham radio sales
>> Ham radio store
>> Ham radio outlet
>>
>> Y! GeoCities
>> Share Your Resume
>> Show off your
>> talent and skills.
>>
>> Y! Toolbar
>> Get it Free!
>> easy 1-click access
>> to your groups.
>>
>> Yahoo! Groups
>> Start a group
>> in 3 easy steps.
>> Connect with others.
>>
>>
>>

>> .
>>
>>
>>
>>
>>
>> ---------------------------------
>> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
>>
>> [Non-text portions of this message have been removed]
>>
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>

9844. RE: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 01:32:54 UTC
From: Walter Milton
Topic: 9703 Message: 9844

Gordon,

When you get your shipment of diodes in. I would like to order 8 of them from you. I am good in the callbook and on QRZ. I can also pay by paypal or any other means.

Thanks,
Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Wednesday, October 04, 2006 5:12 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Thanks Rick,
I agree about the fix. This Radio hears REALLY great now after the fix and alignment.
If you ever need any diodes, just drop me a note.
I should have them in 2 days as the seller is close and already notified me they will ship tomorrow.
73,
Gordon

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> HI Gordon,
>
> That will work....Good price... I paid 35 cents apiece for the ones I bought last year and thought that was cheap. 100 of them will do quite a few radios. When I first powered my 830S up after swapping the diodes, I thought I had failed to re-connect something inside. The receiver was so much quieter. It really is a worthwile mod.
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Gordon <n6wk@...> wrote: Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers

> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
>
>
>
>
>
>
>
> ---
> How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
call rates.
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

9845. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 02:20:08 UTC
From: digs4ruff
Topic: 9703 Message: 9845

You can always try Dan on Ebay - dpi4parts. He always has quantities
of 25, 50 & 100 listed.
Just a happy customer.
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Consolidated Electronics, Inc.
> 705 Watervliet Avenue
> PO Box 20070
> Dayton, Ohio 45420-0070
> Telephone 1-937-252-5662
> Toll - Free 1-800-543-3568
> Fax 937-252-4066
> EMail: cei@...
>
>
> Gordon and Walt M. :
>
> Unfortunately, I don't have any spares. I sent my extras to the
Fox Tango group and they got all scarfed up quickly. Steve can come
up with a good Schottky diode for you. Steve, the owner of
Consolidated is a ham. He also has some 3SK 40s.
> This guy is a good source of all kinds of Asian parts. The parts
quality is top notch, the prices are cheap, and the service is
great. Who could ask for more. Steve is on the DARA board for the
Dayton Hanvention.
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 03, 2006 5:32 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
> Rick, Where did you purchase them from? I might just make an
order,
> then I can sell them back to the guys in small quantities ,as
you are
> doing. Not for Profit, just for convenience and to help out.
>
> 73,
> Gordon
>

> --- In TS-520_820_530_830@yahoogroups.com, "Walter Milton"
> <wmilton@> wrote:
> >
> > Rick,
> >
> > If you have any extra left. I would like to get enough to do
the
> mod on my
> > TS-830S.
> >
> > Thanks,
> > Walt, KA2NJF
> > Psalm 1
> > A Child of the living God
> > Walt
> >
> >
> > _____
> >
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick
May
> > Sent: Sunday, October 01, 2006 3:58 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector
Mod
> >
> >
> >
> > Hi Gordon,
> >
> > When I ordered them, I stipulated to the guy on the phone I
wanted 1%
> > tolerance if he had them. I had wanted 1N6263 diodes as listed
in AG6K's
> > article, but he told me the 1N5711's were very good...and had
a higher
> > voltage rating. He was right ...The junction resistance and
capacitance
> > differences are nill. I used a B&K 810C and a Fluke 77 which
are
> supposed to
> > be accurate to .5% (that is 'point' 5%) so the diodes are
matched close
> > enough for our use. The only problem ordering them is dealing
with the
> > minimum order most electronic sellers have. You probably won't
need
> 25 or 50
> > of them.

> >
> > 73' Rick KC0HH
> >
> > Gordon <n6wk@ <mailto:n6wk%40n6wk.com> > wrote: Thanks Rick,
> > I also appreciate you selling me the Diodes.
> > Walt was wondering if they were matched. I didn't check them,
I just
> > installed them and checked the Carrier adjustment. I had to
tweak L19
> > and L20 just a bit but the Carrier balance was still right on.
I am
> > now debating whether to go ahead and swap out the Balanced
Modulator
> > diodes as well.
> > Were the Diodes matched ? They sure do work nice in the 830.
> >
> > Thanks again,
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%
40yahoogroups.com>
> > 830@yahoogroups.com, Rick May <kc0hh@> wrote:
> > >
> > > Hi Gordon,
> > >
> > > I am glad you saw the same improvement I did. I have been
amazed
> > since I did the Shottkey mod on my 830S....The noise floor is
> > definitely better and the 830S' white noise level doesn't give
me a
> > headache while listening with headphones now. I think after
you make
> > the diode swap, the lack of phase noise in the 830S' receiver
lets you
> > hear more signals.....The Shottkey diodes are a cheap fix.
> > >
> > >
> > > 73' Rick KC0HH
> > > Lamar, Colorado
> > >
> > >
> > >
> > > Gordon <n6wk@> wrote: Today, I
> > opened up my TS-830S and decided to do the Schottky Diode Mod
> > > on the Product detector. I had already opened up the Audio by
> > > replacing C-106 with a .0015 cap . I also had replaced the
Band switch
> > > Coupler with the ones from K4EAA.
> > > I installed the new diodes,(Thanks Rick) and the 100 ohm

resistor.
> > > I then adjusted the voltage across the resistor with L-19
and L-20 to
> > > 600 Mv.
> > > I then tuned up on 20 meters. I worked a station in Portugal
and
> > > Italy. They were strong and I received great reports. I then
tuned
> > > across 3XM6JR. He was weak but workable. I tried calling a
few times
> > > with the 830 barefoot, but was not able to break through the
East
> > > Coast wall. So, I figured I would fire up the TS-2000 and my
Amplifier
> > > to work him. To my surprise, I could NOT even copy him with
the
> > > TS-2000. I switched back to the 830 and there he was. Still
weak, but
> > > I could copy him, then back to the TS-2000 and he was too
low in the
> > > Noise. Same Antenna feeding both Rigs. (My 7 element Beam)
> > > My Conclusion is, This Mod on the 830 is a great thing. It
seems to
> > > lower the noise floor yet the response is Excellent.
> > > I might now have to replace some diodes in the TS-2000.
> > > I am impressed. I am now ready to sell this TS-830S (Gold
Label) and
> > > look for another one to repair. After all, Repairing these
rigs is my
> > > Hobby !
> > >
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the
US (and
> > 30+ countries) for 2¢/min or less.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >

> >
> >
> >
> >
> >
> > ---------------------------------
> > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US
(and 30+
> > countries) for 2¢/min or less.
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
10/3/06
>
>
> [Non-text portions of this message have been removed]
>

9846. ts 830 detector mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 02:53:29 UTC
From: n0nzp115
Topic: 9846 Message: 9846

how do I get a copy of this mod ? I tried in files but did not find it there.

9847. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 03:37:29 UTC
From: digs4ruff
Topic: 9703 Message: 9847

Gordon
How does one go about matching these.
thanks
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon

9849. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 04:05:35 UTC
From: Gordon
Topic: 9703 Message: 9849

Ed, The Only Dumb Question, is the one that was never asked.
I have a meter here that has a Diode function on it. What I do is measure each Diode and match those that come up with the same reading. For example, I have 4 Shottky Diodes here. I check them and 2 have a reading of 469, one reads 470 and the last reads 474. So, I would match the two 469's as a matched pair. I will do that with all 100 I receive and ship them accordingly. I'm sure they will be matched close enough for what we are doing.
I am sure there are more sophisticated ways, but this one works for me. The results after installation appear Fine !
After all, These Diodes are probably all within 5% of each other any way. I am doing the Best I can to match them.
73,

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari" <eberbari@...> wrote:
>
> Gordon,
>
> Kind of a dumb question. What do you measure to match diodes? Just curious.
>
> Ed, W9EJB
>
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@...m
> Sent: Wednesday, October 04, 2006 12:57 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
> Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >

> > Allied Electronics...I got them about a year ago and now I see they
> are about $1 each. These were made by Vishay...I don't know if all the
> semi-conductor manufacturers hold as close tolerance as Vishay or if
> it is just a German thing but these were great..Almost perfect
> uniformity.
> > I also see some Vishay made 5711 lots on E-Bay from a guy in
> Placentia,Ca. . I have bought some things from him...They would only
> be about 13 cents each this way.
> > I had originally wanted the HP Shottkey diodes Rich Measures
> talks about in his article but they were almost $5 each. A little
> stiff for 8 of them plus shipping.
> >
> > Rick KC0HH
> >
> > Gordon <n6wk@> wrote:
> > Rick, Where did you purchase them from? I might just make
> an order,
> > then I can sell them back to the guys in small quantities ,as
you are
> > doing. Not for Profit, just for convenience and to help out.
> >
> > 73,
> > Gordon
> >
> >
> >
> >
> > Recent Activity
> >
> > 14
> > New Members
> >
> > 6
> > New Photos
> >
> > 3
> > New Files
> >
> > Visit Your Group
> > SPONSORED LINKS
> >
> > Ham radio
> > Ham radio antenna
> > Ham radio sales
> > Ham radio store
> > Ham radio outlet
> >
> > Y! GeoCities
> > Share Your Resume
> > Show off your

> > talent and skills.
> >
> > Y! Toolbar
> > Get it Free!
> > easy 1-click access
> > to your groups.
> >
> > Yahoo! Groups
> > Start a group
> > in 3 easy steps.
> > Connect with others.
> >
> >
> >
> > .
> >
> >
> >
> >
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9850. Re: ts 830 detector mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 04:12:37 UTC
From: Gordon
Topic: 9846 Message: 9850

Check Here.
http://f1.grp.yahoofs.com/v1/QIMkRUdyKphQaaTThCyTO7uvVnWhd8tDkgiqa0yOCQeg6wbdfGi\
ob6nmJpXUYcrHUdCMo_yLyiDVXCFO4Dbm/MANUALS/TS-830S/830.html

It is Mod # 11.

73,
Gordon

--- In TS-520_820_530_830@...m, "n0nzp115" <n0nzp115@...>
wrote:
>
> how do I get a copy of this mod ? I tried in files but did not find it
> there.
>

9851. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 04:11:25 UTC
From: Gordon
Topic: 9703 Message: 9851

Barry,
I have a Diode Checker on my DVM Meter here. I match according to
the reading when I test them. So Far, I have had NO problem doing it
this way. I seperate them according to the Meter reading outcome and
place them in similar groups.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Gordon
> How does one go about matching these.
> thanks
> Barry
> VA7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Rick,
> > I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> > for $9.50 plus shipping. When I get them, I will put them in matched
> > sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> > needs them.
> > Thanks for the info on where to get them.
> > 73,
> > Gordon
>

9852. KA2HHB TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 04:48:06 UTC
From: Ruben Echevarria
Topic: 9852 Message: 9852

Hello Gordon, I've been following the thread on the diode mod. Lots of good information. As for me and my 830 ...
I'm still looking for the reason why I can't get my ALC to work properly.
The radio is receiving normally. After doing some work on the IF board, basically resoldered
all the points on the board. Check voltages as Walt asked me to do. Pulled the RF board checked all the resistor values (all within specs). Replaced components as per VK5KYO posting. Radio loads to about 85 watts on 40 meters, but can't get enough swing on ALC also seems like not enough audio to drive the final. I've changed finals and drivers. Still the same thing. I'm wondering if I'm getting enough voltage to the driver circuit. HELP!!

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

9853. Re: TS-520 Crystal Change

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 05:26:32 UTC
From: Clif
Topic: 9679 Message: 9853

Solder-wick and a long skinny tip on the soldering iron. I've never
had to remove the board (major PITA) for a xtal swap.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
<brentbaum5323@...> wrote:
>
> I'm bringing this post back to the front of the group. I should
> receive my new crystals today. Does anyone have any best practices
> solutions for getting the board out, replacing the crystals or
> retuning the oscillator?
>
> Thanks,
> K7MEI Brent
>
> --- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
> <brentbaum5323@> wrote:
> >
> > I opened up my 520SE to replace the 11m crystals with the proper
> > crystals for 10m. It appears to me that the easiest way to do it,
> > because the Osc/Crystal board is at the front of the pack, is to
> > remove the entire Oscillator/coil unit from the radio. I can then
> > replace the crystals without having to remove/unsolder the board
> from
> > the chassis. However, the selector shaft and wafer board rods run
> > through this whole assembly as well.
> >
> > My questions are is there a better way to replace the crystals? Is
> > there a best method for removing the mode sel

ector shaft and wafer
> > board rods?
> >
> > Thanks,
> > Brent, K7MEI
> >
>

9854. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 05:38:01 UTC
From: Kevin Hunter
Topic: 9760 Message: 9854

Pete and Mike - Thanks for your suggestions. I am eager to try them.
My schedule is a bit full the next few days. I will reply when I have
an opportunity to do more work. I also intend to check the components
on the rectifier board.

I have to admit, I've not even given a thought about the receiver.

Kevin

w5rkl wrote:
>
>
> If you remove the 12BY7 driver tube what plate current reading do you
> get in TX? Doing this will remove any/all (hopefully) input drive to
> the final stage.
>
> This arcing problem sounds so much like what happened to my 820. The
> difference is your receive section still works (I'm assuming it does),
> mine doesn't.
>
> My 820 was simply sitting on the desk, in receive mode, and within a
> minute of powering it on, zzzzziitttt and the smell of burnt resistor
> and the 820 shut down, nothing lit not even the pilot lamps. It was as
> though the power plug was pulled from the wall.
>
> I pulled the cover off the bottom and the 10 ohm resistors consisting
> of two 20 ohm 1/2 watt resistors in parallel, each resistor was
> cracked from one end of the resistor to the other. I replaced the
> resistors with single 10 ohm 1/2 watt resistors and everything powered
> up fine, no arcing nothing. The receive sensitivity was down by 20 db
> with the calibrator. Keyed the 820 into a dummy load, good power out
> and normal plate current. Unkeyed and receive was history, nothing,
> and no audio. The lamps, heaters, meter and front panel LEDs all work
> fine. The remote VFO has not been plugged in but pins 8 and 9 were
> shorted on the rear 9 pin socket otherwise the internal VFO wouldn't work.
>
> For what ever reason, the arcing took out something in the receiver
> section. The VCO, VFO, PLL and hetrodyne oscillators are all working
> properly, checked them all with a scope, frequency counter and by also
> listening on a seperate receiver. If one or more were not working the
> transmitter wouldn't work since they are used in both receive and
> transmit. However, absolutely no receive. The audio amp works fine as
> I can hear the transmit audio through the internal/external speaker
> with the "MON" switch turned "ON".
>
> I would be interested to see the outcome of this problem as it may

> help me find my 820 receive problem.
>
> 73's,
>
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Peter A Markavage
> <pmarkavage@...> wrote:
> >
> > Since I haven't seen this mentioned: Is there a dummy load on the
> output;
> > if there is, and you disconnect the cable from the back of the rig going
> > to the dummy load, does the plate current change (Note: rig in transmit
> > mode should only be on for a very brief moment), The point of all
> this is
> > to make sure the output of the pi-network is terminated. You also
> want to
> > make sure, if there is a cable between the rig output and the dummy
> load,
> > it's neither shorted nor open. That would cause excessive plate current
> > to flow, crazy readings, burnt out resistors, etc. I know this is "old
> > school" but, since the 830 has a pi-network on the output, hanging a 75
> > or 100 watt bulb on the output can sometimes provide you a relative
> > indicator of power output if any.
> >
> > Also, I also didn't see this, what band are you doing this tests on
> > and/or, have you tried doing these tests on any other band??
> >
> > Pete, wa2cwa
> >
> > On Wed, 04 Oct 2006 14:11:17 -0000 "Kevin Hunter" <kj558@...>
> > writes:
> > > Gordon - No low voltage type problems when the xformer saver is not
> > > in
> > > line. I will begin checking the components on that rectifier
> > > board.
> > > I have not done that so far. Thanks for the guidance. I'll
> > > keep
> > > you posted.
> > >
> > > Kevin
> >
>
>

[Non-text portions of this message have been removed]

9855. Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 07:40:22 UTC
From: Bob M
Topic: 9801 Message: 9855

Just a quick Reply Thanks for all the Help I will need to check it out on the weekend as today and Friday I donate my time to fixing old computers for a charity so they can make. A few bucks and sell them off. Unfortunately it get a bit frustrating since my strokes in 2002 I forget what I'm doing or where I put something it takes time but that is what I have and it's free.

Yes it was the Cap resistors I was talking about sorry if I got them mixed up this unit is darn near original so I thought I might look over some of the trouble spots while I was inside. I have done a yearly clean and tighten since I got it.

Walt I have now VFO jumper and I'll check the book but I do not remember hearing of the 530s needing one but I can be wrong. I have had a quick look and do not see and pins jumpered from the inside. If so what pins looking from the rear of the cabinet at the socket and I'll double check with ohm meter.

This might take a little bit of time and I know that you are all patient when it come to repairs and being down under in the wonderful Home of Bundaberg Rum (a drink I'm not partial too)Adds a little more time between posts.

Thanks everyone as I proceed through the posts and check each suggestion I'll post a reply to what I Find
Regards Bob M. Vk4HAY

9856. Product Detector Mod 1N5711

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 09:08:20 UTC
From: n9wb
Topic: 9856 Message: 9856

1N5711 Shottkey diodes

This place has 1N5711 Shottkey diodes. That is where I got mine. Yesterday when I posted this I could not remember what the number on the diodes was. I got them out and they are 1N5711.
They also have some 3SK40 FETs

Steve, the owner of Consolidated is a ham. He is on the DARA board for the Dayton Hanvention.

This is a good source of all kinds of Asian parts including capacitors and resistors. The parts quality is top notch, the prices are cheap, and the service is great. Who could ask for more.

Consolidated Electronics, Inc.
705 Watervliet Avenue
PO Box 20070
Dayton, Ohio 45420-0070
Telephone 1-937-252-5662
Toll - Free 1-800-543-3568
Fax 937-252-4066
EMail: cei@...

Vy 73, Walt N9WB

9857. Re: [TS-520_820_530_830] Re: TS-830S & RTTY

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 09:20:12 UTC
From: n9wb
Topic: 9770 Message: 9857

Do not run more than 25 watts or so. RTTY is very high duty cycle and you can fry the finals and transformer quickly.
Walt N9WB
----- Original Message -----
From: Jeroen
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 10:19 AM
Subject: [TS-520_820_530_830] Re: TS-830S & RTTY

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jeroen" <jeroen_aletta@> wrote:
>
> What are the best settings for mic gain, compression (probably off)?
> > Should I reduce output power, and if yes, should I do this tricking the
> > ALC (transverter jack) or by lowering the mic gain? Can xmit-rec
> > switching be done with vox?
>
> I run PSK and RTTY on my TS830 all the time. I tapped off the rx audio
> before the AF GAIN pot so I get a fixed level going into the sound
> card. T-ing off the speaker out will work just as well just keep the
> levels set right in your computer mixer settings. I never use the
> compression and I run the mic gain at 4. I get very good signal
> reports as to the signal quality. I usually run about 40W out and have
> good luck.
>
> Max VE3TMT
>

Gordon, Max and Julio: thanks. I will try some RTTY into my dummy first, see how it works. Hope to meet some members of this group on the air. Stay tuned October 21-22.

Jeroen PF1JM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9858. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 09:18:41 UTC
From: n9wb
Topic: 9703 Message: 9858

How would you match them?
N9WB
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 10:15 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Gordon,

In checking Allied, they show $1.51 each for a 1N5711 (part number 787-9990) but if you search on 1N5711-TR (part number 950-1588) they show a Vishay 1N5711 Shottkey for 10 cents each with no minimum order amount. I don't know what tolerance they would be . Maybe the 1% tolereance I wanted are that much more expensive. Makes sense. but for a dime each, order 16 and you should be able to match groups of 4....

Rick KC0HH

Gordon <n6wk@...> wrote:
Rick, Where did you purchase them from? I might just make an order,
then I can sell them back to the guys in small quantities ,as you are
doing. Not for Profit, just for convenience and to help out.

73,
Gordon

Recent Activity

14
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Share Your Resume

Show off your
talent and skills.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9859. Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 09:27:04 UTC
From: ron
Topic: 9801 Message: 9859

in regards to nothing on the 520, i can only say on my 820 it was the low voltage power supply diodes that went south, replaced all 4 and walla low voltage back and operation normal, not sure if the same on 520. ron ne0x

--
?Scientific Linux, A Hoot and Free to Boot.....

9860. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 12:33:34 UTC
From: n9wb
Topic: 9760 Message: 9860

Kevin:
Just to humor me, please turn the rig off. Let it discharge. With your ohm meter measure the resistance from pin 1 on either final tube socket to ground. Pin 1 is where the 20 ohm resistors go. Do not remove the tubes or resistors when doing this. Please let me know what the resistance it.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin Hunter
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 04, 2006 9:11 AM
Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Gordon - No low voltage type problems when the xformer saver is not in line. I will begin checking the components on that rectifier board. I have not done that so far. Thanks for the guidance. I'll keep you posted.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks for the info Kevin,
> With the Transformer saver in line, I would expect you to experience
> the effects of Low Voltage on Transmit because of the resistance in
> the light bulb to the circuit. The rig is Not seeing full Voltage
> under Load.
> If you remove the Transformer saver, do you experience the same
effects ?
> I am studing the circuit and think we might want to start looking at
> the Rf Unit. Have you checked all the Components on the Rectifier
> board ?? They are all important to everything eles down the line .
> Those parts seem to fail Often !
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> wrote:
> >
> > Gordon - I am able to back the CARRIER control down enough to get the
> > plate current under control. I have to turn it way down though. I
> > found that if there is any ALC deflection, the plate current becomes
> > excessive. I backed the ALC down enough to keep the plate current
> > at 250mA. I also had to keep the LOAD cap fully meshed. The output

> > was about 60 watts. At 350mA grid current, the output was 110 watts.
> >
> > R2 thru R5 are definitely 20 ohms. I had to replace them because the
> > other ones were destroyed. R6 checked 2.719k.
> >
> > The light bulb does not glow very bright during TX in the TUNE
> > position, but the rig seems to be suffering effects of low voltage.
> > I notice the PLL appears to lose lock if I increase the carrier
> > control very much.
> >
> > I checked the line fuse and found someone had a 4 amp fuse in there.
> > I was glad to see that. It has never blown, so I feel none of
> > this incient has stressed the transformer very much.
> >
> > I'm not sure how much it would solve, but I would feel better if I
> > could find whatever it was that I heard arc.
> >
> > Thanks for your help on this so far. I was off work today, but go
> > back tomorrow, so I'll have to put this project on hold for a couple
> > of days.
> >
> > Kevin
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Hmmm,
> > > Very Interesting. I checked the 830 I have here and here is what I
> > > read. The SG in receive is 235 in USB and the FG is -92 USB in RX
> > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and
85 in
> > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > Your Voltages appear higher across the Board.
> > > Let me study the schematic some more and get back to you.
> > > Perhaps some of the other Guys on here have some Ideas also. I am
> > > puzzled on this. If you back the Carrier control off, can you get
> > > the plate current to stop pegging or does the rig appear to take off
> > > on its own ?? I am starting to wonder If clif was on to something in
> > > the Meter circuit, although you stated that R6 and r10 checked OK.
> > > Does your light bulb (in the Transformer saver) Glow Really
bright in
> > > Tune Position during transmit ?? R2, R3, R4, and R5 all checked ok
> > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
am not
> > > doubting you, just double checking.
> > >
> > > Gordon
> > >
> > >

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > Gordon - I did build the transformer saver.
> > > >
> > > > Here are the voltages...
> > > >
> > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE
> position
> > > > on TX.
> > > >
> > > > FG= -64V in LSB or TUNE Position during TX
> > > >
> > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > >
> > > > As for actual output. I can't answer that. Since the plate
> current
> > > > goes off scale when I key it in CW mode, I've never left it
> keyed more
> > > > than about half a second.
> > > >
> > > > ALC appears to be within spec in the TUNE position.
> > > >
> > > > Kevin
> > > >
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > > >
> > > > > Hi Keith,
> > > > > Ok, Those voltages look OK in receive. Just what I would
> > expect to
> > > > > see in a normal working 830.
> > > > > Did you build the Transformer saver?
> > > > > The reason I ask is that I want you to take some measurements
> > while in
> > > > > Transmit mode Very quickly, But I don't want you to burn
> > anything up.
> > > > > I also forgot, Do you get ALC readings in tune? I think you
> said Yes
> > > > > before. Next question, what kind of Ouput do you get when
it's all
> > > > > tuned up?
> > > > >
> > > > > Gordon
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>

> > > > > wrote:
> > > > > >
> > > > > > SG = 267V
> > > > > > FG = -104V
> > > > > > DRV = I was able to see a very low level AC voltage, about
> > > 200mV. It
> > > > > > appeared to be unaffected by meshing the drive capacitor.
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > > > >
> > > > > > > Kevin, ,
> > > > > > > lets start on any band in receive. I just want to get some
> > > base line
> > > > > > > figures. I would suggest doing it with the heaters on.
Adfter
> > > you
> > > > > > > get those, we can evaluate them and go from there.
> > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
there as I
> > > > am sure
> > > > > > > you are aware, even when just receiving. Always keep one
hand
> > > behind
> > > > > > > you.
> > > > > > >
> > > > > > > Gordon
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > > wrote:
> > > > > > > >
> > > > > > > > Gordon - I did replace R7 and R8 at the same time as I
> > > > replaced the
> > > > > > > > others. I checked them out of circuit and they are
> still 100
> > > > ohms.
> > > > > > > > No signs of heating or cracking.
> > > > > > > >
> > > > > > > > I am familiar with the problem of the cracked shaft
couplers
> > > on the
> > > > > > > > bandswitch. These don't show any signs of cracking. I
> > assume
> > > > > > > > someone must have replaced them somewhere along the way.
> > > > > > > >
> > > > > > > > I will check R6 and R10.
> > > > > > > >
> > > > > > > > You might give me some guidance on checking those voltages
> > > on the

> > > > > > > > final board. I don't have any problem making the
> > > > measurement, but
> > > > > > > > > tell me what condition the transmitter should be in
when I'm
> > > > taking
> > > > > > > > > the reading. I'm refering to things like mode switch
> > position,
> > > > > TX or
> > > > > > > > > RX, etc.
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > > wrote:
> > > > > > > > >
> > > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma
in tune
> > > > > position.
> > > > > > > > > Ok next question, What do R7 and R8 ohm out at under the
> > > finals
> > > > > > ? they
> > > > > > > > > should be 100 ohm 1/2 watt. Did you replace those as
> well as
> > > > > the 20
> > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > Also, as Clif mentioned, check the resistors R6 and R10
> > in the
> > > > > final
> > > > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > > > Also, how is the bandswitch coupler inside the Final
cage?
> > > Is it
> > > > > > > > > broken? Cracked ?
> > > > > > > > > Can you take some voltage readings from the Final
> > board for
> > > > > us? If
> > > > > > > > > so, What is the voltage on the SG terminal, then on
> the DRV
> > > > > terminal
> > > > > > > > > also the FG terminal.
> > > > > > > > >
> > > > > > > > > Gordon
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > > <kj558@>
> > > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > Gordon - The idle bias is now up around 150 mA. I

> had it
> > > > > > > adjusted to
> > > > > > > > > > 60mA before I started having problems. I
> re-adjusted it
> > > > > down to
> > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > > >
> > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > > >
> > > > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > > > >
> > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection within
> > > the ALC
> > > > > > > > bracket
> > > > > > > > > > with the carrier control at approximately 9 o'clock
> > > position.
> > > > > > > > > > >
> > > > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > Kevin
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > <n6wk@>
> > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > Kevin,
> > > > > > > > > > What does your ip meter show for idle bias in USB
> > > when you
> > > > > > > key the
> > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC and the
> > plate
> > > > > > current
> > > > > > > > > > read in Tune mode? What does your plate voltage
> > show? You
> > > > > > might want
> > > > > > > > > > to hook up a transformer saver while you figure this
> > out.
> > > > > > There is
> > > > > > > > > > directions on building one in the Files section by
> Walt
> > > > > N9WB.
> > > > > > > > > > What brand and number tubes did you install? The
> > chinese
> > > > > > 6146's are
> > > > > > > > > > known to Short/Flash so they are not a good choice.
> > > > > > > > > > >
> > > > > > > > > > Gordon

> > > > > > > > > > > ---
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > > <kj558@>
> > > > > > > > wrote:
> > > > > > > > > > > > >
> > > > > > > > > > > > > Gordon - You are correct. I do mean plate
current.
> > > > > > Thanks for
> > > > > > > > > > > > > clearing that up. I was thinking of my SB-1000
> > > amp and
> > > > > > > > > refering to
> > > > > > > > > > > > > grid current.
> > > > > > > > > > > > >
> > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Gordon"
> > > > <n6wk@>
> > > > > > > wrote:
> > > > > > > > > > > > > >
> > > > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > > > What do you mean " I keyed the radio and the
Grid
> > > > > current went
> > > > > > > > > > > off the
> > > > > > > > > > > > > scale" ? Are you referring to Plate Current ?
> > > > > > > > > > > > > How are you measuring Grid current while
> Keying the
> > > > rig ?
> > > > > > > > > > > > >
> > > > > > > > > > > > > Just Curious and trying to get more info to
> help you
> > > > out.
> > > > > > > > > > > > >
> > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > N6WK
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Kevin
> > > Hunter"
> > > > > > > > <kj558@>
> > > > > > > > > > > > > wrote:
> > > > > > > > > > > > >
> > > > > > > > > > > > > I've done some research on this forum before

> > > > making this
> > > > > > > > > post and
> > > > > > > > > > > > > > > didn't run across a similar situation. I
hope
> > > > I've not
> > > > > > > > > overlooked
> > > > > > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I recently purchased this 830 so I don't
> know the
> > > > > > history on
> > > > > > > > > it...
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I used it on the air and everything seemed
to be
> > > > working
> > > > > > > > > fine and
> > > > > > > > > > > > > > > within specifications. An internal inspection
> > > > revealed
> > > > > > > > > someone had
> > > > > > > > > > > > > > > done the "super size" cathode resistor
mod. I
> > > > > > ordered the
> > > > > > > > > > > > > > > appropriate resistors and replaced them to
avoid
> > > > future
> > > > > > > > > problems.
> > > > > > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I noticed the tubes were of different
> manufacture,
> > > > so I
> > > > > > > > > figured they
> > > > > > > > > > > > > > > were not a matched set. I went through the
> > > > > > procedure and
> > > > > > > > > > > > > > > neutralized
> > > > > > > > > > > > > > > the tubes in the event it had not been done.
> > > > > > Adjustment was
> > > > > > > > > required.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > After neutralization, I checked the output and
> > > > > > dipped the
> > > > > > > > > plate
> > > > > > > > > > > > > > > current. Everything appeared within spec and
> > > working
> > > > > > > > > normally.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I walked away from the bench and made it about
> > three
> > > > > > steps

> > > > > > > > > when I
> > > > > > > > > > > > > > > heard an arc. I was hoping it didn't come
> > from the
> > > > > 830,
> > > > > > > > > but knew
> > > > > > > > > > > > > > > > that it probably did.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I went back and keyed the radio. The grid
> > current
> > > > > > went off
> > > > > > > > > > > scale. I
> > > > > > > > > > > > > > > looked and found my newly installed cathode
> > > > > resistors were
> > > > > > > > > blown.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I assumed a tube had shorted. I checked the
> > > > tubes with
> > > > > > > > an ohm
> > > > > > > > > > meter
> > > > > > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I ordered a new set of tubes and new
resistors.
> > > They
> > > > > > > arrived
> > > > > > > > > > today
> > > > > > > > > > > > > > > and I installed them.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > Operation appears the same. The grid
> current is
> > > > > > still off
> > > > > > > > > scale,
> > > > > > > > > > > > > > > regardless of band.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I am unable to find any visual evidence to
> > indicate
> > > > > > where
> > > > > > > > > the arc
> > > > > > > > > > > > > > > occurred.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I've been ham for over 20 years, but this
is my
> > > first
> > > > > > > hybrid
> > > > > > > > > > rig. I'm
> > > > > > > > > > > > > > > not experienced at troubleshooting tube type
> gear.
> > > > I'd
> > > > > > > > > > welcome any
> > > > > > > > > > > > > > > theories or suggestions anyone cares to offer.

> > > >

9861. Re: [TS-520_820_530_830] KA2HHB TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 13:00:23 UTC
From: n9wb
Topic: 9852 Message: 9861

Ruben:
Looks like you are getting things narrowed down.

Check the soldering on the tube socket pins for the 12BY7. Then with the SG switch off, the rig in SSB transmit and the mike gain fully down, measure the voltages on the 12BY7 on pins:
1. Cathode
2. Control Grid, may be a - voltage
3. Suppressor grid should be 0 ground
7. Plate
8 Screen Grid.

----- Original Message -----
From: Ruben Echevarria
To: Yahoo Groups
Sent: Wednesday, October 04, 2006 11:48 PM
Subject: [TS-520_820_530_830] KA2HHB TS830S

Hello Gordon, I've been following the thread on the diode mod. Lots of good information.
As for me and my 830 ...
I'm still looking for the reason why I can't get my ALC to work properly.
The radio is receiving normally. After doing some work on the IF board, basically resoldered
all the points on the board. Check voltages as Walt asked me to do. Pulled the RF board checked all the resistor values (all within specs). Replaced components as per VK5KYO posting. Radio loads to about 85 watts on 40 meters, but can't get enough swing on ALC also seems like not enough audio to drive the final. I've changed finals and drivers. Still the same thing. I'm wondering if I'm getting enough voltage to the driver circuit. HELP!!

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date: 10/3/06

[Non-text portions of this message have been removed]

9862. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 13:55:10 UTC
From: Rick May
Topic: 9703 Message: 9862

Hi Gordon,

Do you know what the number signifies using the diode checker? The mean of the four diodes is 470.5 which indicates they are all well within 1% tolerance from each other. When I measured them for junction capacitance and junction resistance I came up with 2 pF and 126.9K

Rick KC0HH

Gordon <n6wk@...> wrote:
Ed, The Only Dumb Question, is the one that was never asked.
I have a meter here that has a Diode function on it. What I do is measure each Diode and match those that come up with the same reading. For example, I have 4 Shottky Diodes here. I check them and 2 have a reading of 469, one reads 470 and the last reads 474. So, I would match the two 469's as a matched pair. I will do that with all 100 I receive and ship them accordingly. I'm sure they will be matched close enough for what we are doing.
I am sure there are more sophisticated ways, but this one works for me. The results after installation appear Fine !
After all, These Diodes are probably all within 5% of each other any way. I am doing the Best I can to match them.
73,

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari" <eberbari@...> wrote:
>
> Gordon,
>
> Kind of a dumb question. What do you measure to match diodes? Just curious.
>
> Ed, W9EJB
>
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 12:57 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
> Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers

> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Allied Electronics...I got them about a year ago and now I see they
> are about $1 each. These were made by Vishay...I don't know if all the
> semi-conductor manufacturers hold as close tolerance as Vishay or if
> it is just a German thing but these were great..Almost perfect
> uniformity.
> > I also see some Vishay made 5711 lots on E-Bay from a guy in
> Placentia,Ca. . I have bought some things from him...They would only
> be about 13 cents each this way.
> > I had originally wanted the HP Shottkey diodes Rich Measures
> talks about in his article but they were almost $5 each. A little
> stiff for 8 of them plus shipping.
> >
> > Rick KC0HH
> >
> > Gordon <n6wk@> wrote:
> > Rick, Where did you purchase them from? I might just make
> an order,
> > then I can sell them back to the guys in small quantities ,as
you are
> > doing. Not for Profit, just for convenience and to help out.
> >
> > 73,
> > Gordon
> >
> >
> >
> >
> > Recent Activity
> >
> > 14
> > New Members
> >
> > 6
> > New Photos
> >
> > 3
> > New Files
> >
> > Visit Your Group
> > SPONSORED LINKS
> >

> > Ham radio
> > Ham radio antenna
> > Ham radio sales
> > Ham radio store
> > Ham radio outlet
> >
> > Y! GeoCities
> > Share Your Resume
> > Show off your
> > talent and skills.
> >
> > Y! Toolbar
> > Get it Free!
> > easy 1-click access
> > to your groups.
> >
> > Yahoo! Groups
> > Start a group
> > in 3 easy steps.
> > Connect with others.
> >
> >
> >
> > .
> >
> >
> >
> >
> >
> > ---
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9863. Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 13:54:41 UTC
From: Bob M
Topic: 9801 Message: 9863

OK here goes I'll reply in one email to Bill,Ken and Walt and any
others that may be watching.

Results so Far.

TPG -- 12 = +12.06v
TPG -- TP6 = + 9.01v
14G -- 14A = +17.95v

Not sure wich way pins are numbered
Connector 11 from 14A end

GND -- Brown = + 2.07v
GND -- Blue = + 1.63v
GND -- Red = + 9.02v
GND -- Green = + 9.01v
GND -- Orange= + 3.58v

The Resistors on Final Board
without removing PCB on foil side.

R2 = 5.4 Ohm
R3 = 5.5 Ohm
R4 = 5.4 Ohm
R5 = 5.4 Ohm

Resistors still in place on PCB

do I need to remove the 6164B's
and flip Final PCB out to test better.

Thanks Bob M VK4HAY

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I should have read in the subject line that the display did not
work. Is the dummy plug securely in the VFO socket on the back ?
> Walt N9WB
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 8:07 AM
> Subject: Re: [TS-520_820_530_830] TS-530s NoDisplay or RX
>
>
> I think that the resistors you are referring to are the ones

that go to the plate caps. these are parasitic chokes. The wire
around them rejects VHF parasitic and the resister part serves as a
reject load and turns the parasitic energy to heat. Does the read
out work?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Bob M
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 2:05 AM
> Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX
>
> G'day All,
>
> My TS-530s has decided to play Dead. Worked great on Tuesday
night
> but when I turned it on this morning the Dial lights came on the
> leds work but nada no one was home.
>
> I've tightend all the board screws, cleaned the band switch and
pots,
> checked SG switch, the HV resistors read 5 ohm and 3 ohms. The
one
> thing I find strange was that they were overwound by 4 turns of
bare
> wire (like the Resistor tails) connected at each end I would
have
> assumed that this would have created a dead short bypassing the
> resistors. Is this normal??
>
> The unit has worked almost flawlessly for the paost 2 1/2 years.
> once or twice no display or RX for 30 Seconds to 1 min then fine
> again.
>
> I have replaced the 12BY7A with 2 others same result.
>
> I'm only at a basic level for poject but would like any advise
that
> will help me get it going again.
>
> Regards Bob M. VK4HAY
>
> --
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
10/3/06
>

> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
10/3/06
>
>
> [Non-text portions of this message have been removed]
>

9864. Re: [TS-520_820_530_830] Re: ts 830 detector mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 13:58:42 UTC
From: Max Harelik
Topic: 9846 Message: 9864

Gordon, I got this when I tried the link below: "The document you requested could not be found". Also tried backing up from the file to the url, but that didn't work, either. Any suggestions? Thanks.

73,
Max, K5OVW

Gordon wrote:

> Check Here.
> http://f1.grp.yahoofs.com/v1/QIMkRUdyKphQaaTThCyTO7uvVnWhd8tDkgiqa0yOCQeg6wbdfGi\
> ob6nmJpXUYcrHUdCMo_yLyiDVXCFO4Dbm/MANUALS/TS-830S/830.html
> <http://f1.grp.yahoofs.com/v1/QIMkRUdyKphQaaTThCyTO7uvVnWhd8tDkgiqa0yOCQeg6wbdfGiob6nmJp
XUYcrHUdCMo_yLyiDVXCFO4Dbm/MANUALS/TS-830S/830.html>
>
> It is Mod # 11.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n0nzp115" <n0nzp115@...>
> wrote:
> >
> > how do I get a copy of this mod ? I tried in files but did not find it
> > there.
> >
>
>

[Non-text portions of this message have been removed]

9865. Re: [TS-520_820_530_830] Re: ts 830 detector mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 14:25:04 UTC
From: Rick May
Topic: 9846 Message: 9865

Max,

Try this link..It is Rich Measures web site...Look at mod #11
http://www.somis. org/830.html
Rick KC0HH

Max Harelik <mharelik@...> wrote:
Gordon, I got this when I tried the link below: "The document you
requested could not be found". Also tried backing up from the file to
the url, but that didn't work, either. Any suggestions? Thanks.

73,
Max, K5OVW

Gordon wrote:

> Check Here.
> http://f1.grp.yahoofs.com/v1/QIMkRUdyKphQaaTThCyTO7uvVnWhd8tDkgiqa0yOCQeg6wbdfGi\
> ob6nmJpXUYcrHUdCMo_yLyiDVXCFO4Dbm/MANUALS/TS-830S/830.html
> <http://f1.grp.yahoofs.com/v1/QIMkRUdyKphQaaTThCyTO7uvVnWhd8tDkgiqa0yOCQeg6wbdfGiob6nmJp
XUYcrHUdCMo_yLyiDVXCFO4Dbm/MANUALS/TS-830S/830.html>
>
> It is Mod # 11.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n0nzp115" <n0nzp115@...>
> wrote:
> >
> > how do I get a copy of this mod ? I tried in files but did not find it
> > there.
> >
>
>

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9866. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 14:31:00 UTC
From: Bill Scurlock
Topic: 9703 Message: 9866

Hi Rick.

You and Gordon are discussing a very interesting topic. I want to take some of my 1N5711's and do some comparison testing with you both. Did you use an RLC Bridge to measure the capacitance and resistance? or, how did you do it? I think my Fluke 8060A can also measure diodes like what Gordon is doing. When you get down to measuring capacitances like 2pf, the leads on your meter can mess you up unless you subtract that out of your reading (however, for comparisons only, it probably makes no difference). Although we may not need to be concerned about close matching in our application, it would be nice to know a convenient and relatively accurate way of matching diodes when needed.

A couple of years ago I used my RLC Bridge to compare interelectrode capacitances in some vacuum tubes. I never did get my readings to match the tube manual data, but I sure could get different readings in my comparisons between tubes - and the readings were repeatable. I don't have a really good tube checker, so could not check to see if my bridge capacitance readings were valid indications of tube differences or not. Interesting stuff.

73, Bill, K5GCW
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 05, 2006 8:55 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Gordon,

Do you know what the number signifies using the diode checker? The mean of the four diodes is 470.5 which indicates they are all well within 1% tolerance from each other. When I measured them for junction capacitance and junction resistance I came up with 2 pF and 126.9K

Rick KC0HH

Gordon <n6wk@...> wrote:
Ed, The Only Dumb Question, is the one that was never asked.
I have a meter here that has a Diode function on it. What I do is
measure each Diode and match those that come up with the same
reading. For example, I have 4 Shottky Diodes here. I check them and 2
have a reading of 469, one reads 470 and the last reads 474. So, I
would match the two 469's as a matched pair. I will do that with all
100 I receive and ship them accordingly. I'm sure they will be matched
close enough for what we are doing.
I am sure there are more sophisticated ways, but this one works for
me. The results after installation appear Fine !
After all, These Diodes are probably all within 5% of each other any
way. I am doing the Best I can to match them.
73,

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari"
<eberbari@...> wrote:
>
> Gordon,
>
> Kind of a dumb question. What do you measure to match diodes? Just
curious.
>
> Ed, W9EJB
>
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 12:57 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
> Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> for $9.50 plus shipping. When I get them, I will put them in matched
> sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Allied Electronics...I got them about a year ago and now I see they
> are about $1 each. These were made by Vishay...I don't know if all the
> semi-conductor manufacturers hold as close tolerance as Vishay or if
> it is just a German thing but these were great..Almost perfect
> uniformity.
> > I also see some Vishay made 5711 lots on E-Bay from a guy in
> Placentia,Ca. . I have bought some things from him...They would only
> be about 13 cents each this way.
> > I had originally wanted the HP Shottkey diodes Rich Measures
> talks about in his article but they were almost $5 each. A little
> stiff for 8 of them plus shipping.
> >
> > Rick KC0HH
> >
> > Gordon <n6wk@> wrote:
> > Rick, Where did you purchase them from? I might just make
> an order,
> > then I can sell them back to the guys in small quantities ,as
you are
> > doing. Not for Profit, just for convenience and to help out.

> >
> > 73,
> > Gordon
> >
> >
> >
> >
> > Recent Activity
> >
> > 14
> > New Members
> >
> > 6
> > New Photos
> >
> > 3
> > New Files
> >
> > Visit Your Group
> > SPONSORED LINKS
> >
> > Ham radio
> > Ham radio antenna
> > Ham radio sales
> > Ham radio store
> > Ham radio outlet
> >
> > Y! GeoCities
> > Share Your Resume
> > Show off your
> > talent and skills.
> >
> > Y! Toolbar
> > Get it Free!
> > easy 1-click access
> > to your groups.
> >
> > Yahoo! Groups
> > Start a group
> > in 3 easy steps.
> > Connect with others.
> >
> >
> >
> > .
> >
> >
> >
> >
> >

> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9867. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 16:23:55 UTC
From: Rick May
Topic: 9703 Message: 9867

Hi Bill,

I sent a reply to Gordon answering his question on how I tested the diodes but the e-mail response went off in the ether somewhere.
You match the diodes by comparing junction capacitance and junction resistance. I used a B&K 810C to check the capacitance.. There is a zero function to remove the value of the capacitance of the test leads. All 25 of the 5711 diodes I checked were 2 pF and I used my Fluke 77 to measure resistance which was 126.90 K. There was no difference I could see between any of the diodes. Gordon is checking 4 (5711's) of the 25 I had. If Gordon's diode tester with values of 469,470 and 474 are any indication, I probably would not see 1% variations in diodes using the test gear I had. I would say any 4 of the 25 diodes I had on hand could be considered matched close enough for our use.

73' Rick KC0HH

Bill Scurlock <k5gcw@...> wrote:
Hi Rick.

You and Gordon are discussing a very interesting topic. I want to take some of my 1N5711's and do some comparison testing with you both. Did you use an RLC Bridge to measure the capacitance and resistance? or, how did you do it? I think my Fluke 8060A can also measure diodes like what Gordon is doing. When you get down to measuring capacitances like 2pf, the leads on your meter can mess you up unless you subtract that out of your reading (however, for comparisons only, it probably makes no difference). Although we may not need to be concerned about close matching in our application, it would be nice to know a convenient and relatively accurate way of matching diodes when needed.

A couple of years ago I used my RLC Bridge to compare interelectrode capacitances in some vacuum tubes. I never did get my readings to match the tube manual data, but I sure could get different readings in my comparisons between tubes - and the readings were repeatable. I don't have a really good tube checker, so could not check to see if my bridge capacitance readings were valid indications of tube differences or not. Interesting stuff.

73, Bill, K5GCW
----- Original Message -----
From: Rick May
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 05, 2006 8:55 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hi Gordon,

Do you know what the number signifies using the diode checker? The mean of the four diodes is 470.5 which indicates they are all well within 1% tolerance from each other. When I measured them for junction capacitance and junction resistance I came up with 2 pF and 126.9K

Rick KC0HH

Gordon <n6wk@...> wrote:
Ed, The Only Dumb Question, is the one that was never asked.
I have a meter here that has a Diode function on it. What I do is measure each Diode and match those that come up with the same reading. For example, I have 4 Shottky Diodes here. I check them and 2 have a reading of 469, one reads 470 and the last reads 474. So, I would match the two 469's as a matched pair. I will do that with all 100 I receive and ship them accordingly. I'm sure they will be matched close enough for what we are doing.
I am sure there are more sophisticated ways, but this one works for me. The results after installation appear Fine !
After all, These Diodes are probably all within 5% of each other any way. I am doing the Best I can to match them.
73,

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari" <eberbari@...> wrote:
>
> Gordon,
>
> Kind of a dumb question. What do you measure to match diodes? Just curious.
>
> Ed, W9EJB
>
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 12:57 PM
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
> Hi Rick,
> I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers for $9.50 plus shipping. When I get them, I will put them in matched sets of 4 or 8. Then, I will be happy to sell them out to anyone who needs them.
> Thanks for the info on where to get them.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Allied Electronics...I got them about a year ago and now I see they are about $1 each. These were made by Vishay...I don't know if all the semi-conductor manufacturers hold as close tolerance as Vishay or if it is just a German thing but these were great..Almost perfect

> uniformity.
> > I also see some Vishay made 5711 lots on E-Bay from a guy in
> Placentia,Ca. . I have bought some things from him...They would only
> be about 13 cents each this way.
> > I had originally wanted the HP Shottkey diodes Rich Measures
> talks about in his article but they were almost $5 each. A little
> stiff for 8 of them plus shipping.
> >
> > Rick KC0HH
> >
> > Gordon <n6wk@> wrote:
> > Rick, Where did you purchase them from? I might just make
> an order,
> > then I can sell them back to the guys in small quantities ,as
you are
> > doing. Not for Profit, just for convenience and to help out.
> >
> > 73,
> > Gordon
> >
> >
> >
> >
> > Recent Activity
> >
> > 14
> > New Members
> >
> > 6
> > New Photos
> >
> > 3
> > New Files
> >
> > Visit Your Group
> > SPONSORED LINKS
> >
> > Ham radio
> > Ham radio antenna
> > Ham radio sales
> > Ham radio store
> > Ham radio outlet
> >
> > Y! GeoCities
> > Share Your Resume
> > Show off your
> > talent and skills.
> >
> > Y! Toolbar
> > Get it Free!

> > easy 1-click access
> > to your groups.
> >
> > Yahoo! Groups
> > Start a group
> > in 3 easy steps.
> > Connect with others.
> >
> >
> >
> > .
> >
> >
> >
> >
> >
> > ---
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9868. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 16:43:15 UTC
From: Rick May
Topic: 9703 Message: 9868

Hi Bill,

I had one of those 'duh' moments.. Gordon e-mailed me direct with his question about how I tested the diodes. My reply went directly to him and not the group. I went back and replied again ...Of course the reply went to him again. After I looked at the 'FROM' header on his e-mail, I realized why they were not showing up here on the group.....

73' Rick KC0HH

Bill Scurlock <k5gcw@...> wrote:
-Snip-
Hi Rick.

You and Gordon are discussing a very interesting topic. I want to take some of my 1N5711's and do some comparison testing with you both. Did you use an RLC Bridge to measure the capacitance and resistance? or, how did you do it?

Recent Activity

12
New Members

6
New Photos

3
New Files

Visit Your Group
SPONSORED LINKS

Ham radio
Ham radio antenna
Ham radio sales
Ham radio store
Ham radio outlet

Y! GeoCities
Create a Blog
And tell the world
what you think.

Y! Toolbar
Get it Free!
easy 1-click access
to your groups.

Yahoo! Groups
Start a group
in 3 easy steps.
Connect with others.

.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9869. 1N5711 at Digikey

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 18:07:38 UTC
From: N3DOK
Topic: 9869 Message: 9869

Hi
I just checked Digikeys web site. Looks like they are $0.70 each.

Bob N3DOK

http://www.digikey.com/scripts/DkSearch/dksus.dll?KeywordSearch

Digi-Key Part Number 1N5711W-FDICT-ND

[Non-text portions of this message have been removed]

9870. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 18:46:46 UTC
From: Gordon
Topic: 9703 Message: 9870

Walt,
I will match them as best I can with my diode tester. The tolerence
is probably close enough anyway without testing them. So far, The
ones I have tested are very close to one another. I contacted Vishey
for a manufacture Tolerence Sheet on the ones I just purchased.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> How would you match them?
> N9WB
> ----- Original Message -----
> From: Rick May
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 10:15 AM
> Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
>
> Hi Gordon,
>
> In checking Allied, they show $1.51 each for a 1N5711 (part number
787-9990) but if you search on 1N5711-TR (part number 950-1588) they
show a Vishay 1N5711 Shottkey for 10 cents each with no minimum order
amount. I don't know what tolerance they would be . Maybe the 1%
tolereance I wanted are that much more expensive. Makes sense. but for
a dime each, order 16 and you should be able to match groups of 4....
>
> Rick KC0HH
>
>
> Gordon <n6wk@...> wrote:
> Rick, Where did you purchase them from? I might just make an order,
> then I can sell them back to the guys in small quantities ,as you are
> doing. Not for Profit, just for convenience and to help out.
>
> 73,
> Gordon
>
> Recent Activity
>
> 14
> New Members
>

> 6
> New Photos
>
> 3
> New Files
>
> Visit Your Group
> SPONSORED LINKS
>
> Ham radio
> Ham radio antenna
> Ham radio sales
> Ham radio store
> Ham radio outlet
>
> Y! GeoCities
> Share Your Resume
> Show off your
> talent and skills.
>
> Y! Toolbar
> Get it Free!
> easy 1-click access
> to your groups.
>
> Yahoo! Groups
> Start a group
> in 3 easy steps.
> Connect with others.
>
> .
>
>
> ---
> Get your own web address for just $1.99/1st yr. We'll help. Yahoo!
Small Business.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
10/3/06
>
>
> [Non-text portions of this message have been removed]
>

9871. Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 18:55:12 UTC
From: Gordon
Topic: 9703 Message: 9871

Hi Rick,
No , I do NOT know what the number represents. I long ago misplaced
the manual for this meter. I just use the number as a reference
against other Diodes for matching.
I have had good luck doing it this way and had No problems yet.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> Do you know what the number signifies using the diode checker?
The mean of the four diodes is 470.5 which indicates they are all
well within 1% tolerance from each other. When I measured them for
junction capacitance and junction resistance I came up with 2 pF and
126.9K
>
> Rick KC0HH
>
>
> Gordon <n6wk@...> wrote:
> Ed, The Only Dumb Question, is the one that was never asked.
> I have a meter here that has a Diode function on it. What I do is
> measure each Diode and match those that come up with the same
> reading. For example, I have 4 Shottky Diodes here. I check them and 2
> have a reading of 469, one reads 470 and the last reads 474. So, I
> would match the two 469's as a matched pair. I will do that with all
> 100 I receive and ship them accordingly. I'm sure they will be matched
> close enough for what we are doing.
> I am sure there are more sophisticated ways, but this one works for
> me. The results after installation appear Fine !
> After all, These Diodes are probably all within 5% of each other any
> way. I am doing the Best I can to match them.
> 73,
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ed Berbari"
> <eberbari@> wrote:
> >
> > Gordon,
> >
> > Kind of a dumb question. What do you measure to match diodes? Just
> curious.

> >
> > Ed, W9EJB
> >
> >
> > ----- Original Message -----
> > From: Gordon
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, October 04, 2006 12:57 PM
> > Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
> >
> >
> > Hi Rick,
> > I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> > for $9.50 plus shipping. When I get them, I will put them in matched
> > sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> > needs them.
> > Thanks for the info on where to get them.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> > >
> > > Allied Electronics...I got them about a year ago and now I see they
> > are about $1 each. These were made by Vishay...I don't know if all the
> > semi-conductor manufacturers hold as close tolerance as Vishay or if
> > it is just a German thing but these were great..Almost perfect
> > uniformity.
> > > I also see some Vishay made 5711 lots on E-Bay from a guy in
> > Placentia,Ca. . I have bought some things from him...They would only
> > be about 13 cents each this way.
> > > I had originally wanted the HP Shottkey diodes Rich Measures
> > talks about in his article but they were almost $5 each. A little
> > stiff for 8 of them plus shipping.
> > >
> > > Rick KC0HH
> > >
> > > Gordon <n6wk@> wrote:
> > > Rick, Where did you purchase them from? I might just make
> > an order,
> > > then I can sell them back to the guys in small quantities ,as
> you are
> > > doing. Not for Profit, just for convenience and to help out.
> > >
> > > 73,
> > > Gordon
> > >
> > >
> > >
> > >
> > > Recent Activity

> > >
> > > 14
> > > New Members
> > >
> > > 6
> > > New Photos
> > >
> > > 3
> > > New Files
> > >
> > > Visit Your Group
> > > SPONSORED LINKS
> > >
> > > Ham radio
> > > Ham radio antenna
> > > Ham radio sales
> > > Ham radio store
> > > Ham radio outlet
> > >
> > > Y! GeoCities
> > > Share Your Resume
> > > Show off your
> > > talent and skills.
> > >
> > > Y! Toolbar
> > > Get it Free!
> > > easy 1-click access
> > > to your groups.
> > >
> > > Yahoo! Groups
> > > Start a group
> > > in 3 easy steps.
> > > Connect with others.
> > >
> > >
> > >
> > > .
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> > call rates.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>

9872. Re: ts 830 detector mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 18:58:21 UTC
From: Gordon
Topic: 9846 Message: 9872

Hi Mark,
That's strange. It worked last night, I even checked before I pasted
the Link. Ok, Try this one
http://www.somis.org/830.html
73,
Gordon

-- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...>
wrote:
>
> Gordon, I got this when I tried the link below: "The document you
> requested could not be found". Also tried backing up from the file to
> the url, but that didn't work, either. Any suggestions? Thanks.
>
> 73,
> Max, K5OVW
>
>

9873. Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 18:37:05 UTC
From: N3DOK
Topic: 9873 Message: 9873

Hi,

I'm looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers. Any suggestions on a used oscilloscope for beginners? I do not want a full blown service scope. Any suggestions of brand and model number.

I have said it before, Thanks to all on this group that help keep the Kenwood TS Hybrid Transceivers on the air!

Thank You,
Bob Ferrey Jr. N3DOK
Pittsburgh PA

[Non-text portions of this message have been removed]

9874. TS-830S Product Detector Mod Help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 18:39:24 UTC
From: N3DOK
Topic: 9874 Message: 9874

Hi,
I have been watching the large amount of interest in the TS-830S Product Detector Modification. I have tried to piece together how to do it. Could someone put on the web site how to go about it?

Thank You,
Bob N3DOK

[Non-text portions of this message have been removed]

9875. 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 19:13:03 UTC
From: Gordon
Topic: 9875 Message: 9875

Thanks to everyone that emailed me off list. It looks as if 92 of the
100 are now spoken for. I may have to buy more. :-)

I am sending confirmation emails to each person that requested them so
you'll know your on the list.

73,
Gordon

9876. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 19:23:52 UTC
From: N6WK
Topic: 9703 Message: 9876

Hi Walt
I have you down for 8 Diodes.

I'll contact you with a total cost in a day or so. It will be 11 cents
each plus whatever the shipping comes out to. Not much I'm sure.
No other Costs involved.
73,
Gordon

Walter Milton wrote:

> Gordon,
>
> When you get your shipment of diodes in. I would like to order 8 of them
> from you. I am good in the callbook and on QRZ. I can also pay by paypal
> or any other means.
>
> Thanks,
> Walt, KA2NJF
> Psalm 1
> A Child of the living God
> Walt
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon
> Sent: Wednesday, October 04, 2006 5:12 PM
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
> Thanks Rick,
> I agree about the fix. This Radio hears REALLY great now after the
> fix and alignment.
> If you ever need any diodes, just drop me a note.
> I should have them in 2 days as the seller is close and already
> notified me they will ship tomorrow.
> 73,
> Gordon
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com <mailto:830%40yahoogroups.com>, Rick May

> <kc0hh@...> wrote:
> >
> > HI Gordon,
> >
> > That will work....Good price... I paid 35 cents apiece for the
> ones I bought last year and thought that was cheap. 100 of them will
> do quite a few radios. When I first powered my 830S up after swapping
> the diodes, I thought I had failed to re-connect something inside. The
> receiver was so much quieter. It really is a worthwile mod.
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> >
> > Gordon <n6wk@...> wrote: Hi Rick,
> > I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> > for $9.50 plus shipping. When I get them, I will put them in matched
> > sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> > needs them.
> > Thanks for the info on where to get them.
> > 73,
> > Gordon
> >
> >
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9877. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 19:27:42 UTC
From: Gordon
Topic: 9875 Message: 9877

ALL 100 are Now Spoken For.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks to everyone that emailed me off list. It looks as if 92 of the
> 100 are now spoken for. I may have to buy more. :-)
>
> I am sending confirmation emails to each person that requested them so
> you'll know your on the list.
>
> 73,
> Gordon
>

9878. Re: TS-830S Product Detector Mod Help?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 19:44:13 UTC
From: Gordon
Topic: 9874 Message: 9878

Hi Bob,
Yes, go to this site. It is Item # 11 that we are doing for the
Product detector Mod.
Item # 13 is the Balanced Modulator Mod .
Item # 3 is to swap out a Capacitor and open up the Audio a bit.

www.somis.org/830.html

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi,
> I have been watching the large amount of interest in the
TS-830S Product Detector Modification. I have tried to piece together
how to do it. Could someone put on the web site how to go about it?
>
> Thank You,
> Bob N3DOK
>
>
>
> [Non-text portions of this message have been removed]
>

9879. Re: Looking for a used oscilloscope for use in the repair of the Kenwood TS seri

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 19:54:31 UTC
From: Gordon
Topic: 9873 Message: 9879

Bob, I did some Dealing and ended up with a Tektronix 2235 Scope. It is Dual Trace and good to 100 Mhz. It works great for repairing these hybrids.
You'll need a 10X probe with it. A 1X is easy to make up.
I see these scopes on Ebay for a couple hundred bucks or so.
In Fact, there is a nice one there now for Buy it now of $ 199 dollars.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
> Hi,
>
> I'm looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers. Any suggestions on a used oscilloscope for beginners? I do not want a full blown service scope. Any suggestions of brand and model number.
>
> I have said it before, Thanks to all on this group that help keep the Kenwood TS Hybrid Transceivers on the air!
>
> Thank You,
> Bob Ferrey Jr. N3DOK
> Pittsburgh PA
>
>
>
> [Non-text portions of this message have been removed]
>

9880. Re: [TS-520_820_530_830] Re: ts 830 detector mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 20:25:32 UTC
From: Max Harelik
Topic: 9846 Message: 9880

That worked, Gordon. Thanks.

Max

Gordon wrote:

> Hi Mark,
> That's strange. It worked last night, I even checked before I pasted
> the Link. Ok, Try this one
> http://www.somis.org/830.html <http://www.somis.org/830.html>
> 73,
> Gordon
>
> -- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Max Harelik <mharelik@...>
> wrote:
> >
> > Gordon, I got this when I tried the link below: "The document you
> > requested could not be found". Also tried backing up from the file to
> > the url, but that didn't work, either. Any suggestions? Thanks.
> >
> > 73,
> > Max, K5OVW
> >
> >
>
>

[Non-text portions of this message have been removed]

9881. Re: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 21:55:53 UTC
From: Kevin King
Topic: 9873 Message: 9881

If interested I have an old heathkit I got did not power up when pluged in, but does have the book.
Sent via BlackBerry from Cingular Wireless

-----Original Message-----
From: "N3DOK" <n3dok@arrl.net>
Date: Thu, 5 Oct 2006 14:37:05
To:"Kenwood TS-830S Yahoo" <TS-520_820_530_830@yahoogroups.com>
Subject: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Hi,

I'm looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers. Any suggestions on a used oscilloscope for beginners? I do not want a full blown service scope. Any suggestions of brand and model number.

I have said it before, Thanks to all on this group that help keep the Kenwood TS Hybrid Transceivers on the air!

Thank You,
Bob Ferrey Jr. N3DOK
Pittsburgh PA

[Non-text portions of this message have been removed]

Yahoo! Groups Links

9882. Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 22:58:04 UTC
From: Edwin
Topic: 9703 Message: 9882

Gordon,
Put me down for 8 diodes.
Edwin
N1DFB

[Non-text portions of this message have been removed]

9883. Re: [TS-520_820_530_830] Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-05 23:08:04 UTC
From: John Harp
Topic: 9693 Message: 9883

Jim, on the MC-50 mic I have, you can plug the connector in two ways. One is a lower impedance by one color dot and one is a high impedance by a different color dot. go to the high impedance one. I forget the color dot it is.
n9wb <n9wb@...> wrote: Jim:
Be sure it is set for High Impedance. If you do not know how, write me back. Walt N9WB

----- Original Message -----
From: Jim Stoneback
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 8:15 AM
Subject: Re: [TS-520_820_530_830] Best mic for 830s?

Chris,

Using the MC-50 with my TS-830 requires that the mic gain be turned full clockwise. It appears to work just fine, though. If that's what you're seeing, you don't have to change mics.

73,
Jim K4AXF

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 01, 2006 4:19 AM
Subject: Re: [TS-520_820_530_830] Best mic for 830s?

Which stand does your D-104 have. Is it amplified or un-amplified?
Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, September 30, 2006 6:58 PM
Subject: [TS-520_820_530_830] Best mic for 830s?

Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
was bad will not drive the radio. I have a D104 that works, but I
understand I may have impedance matching problem. Looking on Heil web
site I see they have a kit for the D104.Or is it just better to get a
new mic?

I do like my D104 it looks cool.
Chris W7CTH

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/2006

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date: 9/29/06

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

9884. VFO-230 is on the way!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 01:26:06 UTC
From: max_ve3tmt
Topic: 9884 Message: 9884

Well, my VFO is on the way, leaves only the SM-220 to complete the station. As I posted before, the seller of the VFO has an 830 for sale in great condition. He would probably take $400 CDN, about $375 US.

Max

9885. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 02:11:12 UTC
From: Gordon
Topic: 9875 Message: 9885

I have received the Schottky Diodews. I am in the process of measuring
all of them and putting them in matching groups of 4.
I will notify each and everyone that wanted some tomorrow of your ship
dates.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> ALL 100 are Now Spoken For.
>
>
> 73,
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks to everyone that emailed me off list. It looks as if 92 of the
> > 100 are now spoken for. I may have to buy more. :-)
> >
> > I am sending confirmation emails to each person that requested them so
> > you'll know your on the list.
> >
> > 73,
> > Gordon
> >
>

9886. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 03:51:03 UTC
From: Gordon
Topic: 9875 Message: 9886

Hi All,
Because of the great response I received about the Schottky Diodes,
I ordered another 100 of them. This way I will be able to match
everyones diode order very closely. I want you all to get diodes that
are matched as close as I can get them.
So, I will be able to fill everyones order.
At 11 cents each, I don't think anyone can go wrong.
Thanks Guys.
All orders should ship by Saturday.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I have received the Schottky Diodes. I am in the process of measuring
> all of them and putting them in matching groups of 4.
> I will notify each and everyone that wanted some tomorrow of your ship
> dates.
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > ALL 100 are Now Spoken For.
> >
> >
> > 73,
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Thanks to everyone that emailed me off list. It looks as if 92
of the
> > > 100 are now spoken for. I may have to buy more. :-)
> > >
> > > I am sending confirmation emails to each person that requested
them so
> > > you'll know your on the list.
> > >
> > > 73,
> > > Gordon

> > >
> >
>

9887. Re: KA2HHB TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 03:55:53 UTC
From: Gordon
Topic: 9852 Message: 9887

Hi Ruben,
I received your message on my machine. Sorry I missed yo.
I wish I had more info to give you on your lack of ALC. I , as Walt
has menbtioned, am also uspect of the terminals on the 12by7 socket.
I wish I had more info to just throw out there for you, but you have
a difficult one going on. I am sure we will get to the bottom of it
sooner or later. When in tune, do you get lots of ALC reading ?
If so, what Mike are you using with that rig? 80 watts does seem a
bit low for new Finals and a new driver.. Of course, if your line
Voltage is low it can affect everything. My Line Voltage here is 122
Volts

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> Hello Gordon, I've been following the thread on the diode mod. Lots
of good information.
> As for me and my 830 ...
> I'm still looking for the reason why I can't get my ALC to work
properly.
> The radio is receiving normally. After doing some work on the IF
board, basically resoldered
> all the points on the board. Check voltages as Walt asked me to do.
Pulled the RF board
> checked all the resistor values (all within specs). Replaced
components as per VK5KYO
> posting. Radio loads to about 85 watts on 40 meters, but can't get
enough swing on ALC
> also seems like not enough audio to drive the final. I've changed
finals and drivers. Still the same thing. I'm wondering if I'm getting
enough voltage to the driver circuit. HELP!!
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
> [Non-text portions of this message have been removed]
>

9888. TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 04:12:35 UTC
From: w5mhl
Topic: 9888 Message: 9888

What is the purpose of the CWT adjustment accessed from the bottom of the unit? How should it be adjusted?

9889. Re: [TS-520_820_530_830] TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 09:10:15 UTC
From: n9wb
Topic: 9888 Message: 9889

Is this also called VR-3 ?
I think this is the trimmer called VR-3. If so, it adjusts the CW transmit frequency offset so that when a CW station tunes you in, he hears a 700 Hz tone instead of a zero beat. If you have a very accurate frequency counter, it can be used to set the carrier oscillator to 8830.7 kHz when in the CW transmit mode. If you do not have a frequency counter, it is best not to change this. If you do, mark the initial position of the control with a felt tip marker so you can get it back if you have difficulty.

Vy 73, Walt N9WB

----- Original Message -----
From: w5mhl
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 05, 2006 11:12 PM
Subject: [TS-520_820_530_830] TS-830 cw adjustment

What is the purpose of the CWT adjustment accessed from the bottom of
the unit? How should it be adjusted?

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.12.13/463 - Release Date: 10/4/06

[Non-text portions of this message have been removed]

9890. Re: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 09:52:03 UTC
From: n9wb
Topic: 9801 Message: 9890

Bob:
I told you something incorrect in an earlier message. There is no jumper plug required for the VFO socket in the TS-830. There is one required for the 520 and 820. In the 830, a internal switch in the DIN socket does this.

If the display is dead and the rig has no receive, the problem is not on the final board.

There is a row of 3 push button switches to the left of the VFO knob between it and the mike gain. The top one is laveled Fix. Be sure that it is NOT pushed in.

Please tell me, do you get receive ? Do you hear anything from the speaker hiss, hum ? If you push the RF ATT on, does the RF ATT light above the display light ? I am not suspecting the RF Attenuater itself, but this tells me something. Does your s meter do anything ?

Vy 73, Walt N9WB

----- Original Message -----
From: Bob M
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 05, 2006 8:54 AM
Subject: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX

OK here goes I'll reply in one email to Bill,Ken and Walt and any others that may be watching.

Results so Far.

TPG -- 12 = +12.06v
TPG -- TP6 = + 9.01v
14G -- 14A = +17.95v

Not sure wich way pins are numbered
Connector 11 from 14A end

GND -- Brown = + 2.07v
GND -- Blue = + 1.63v
GND -- Red = + 9.02v
GND -- Green = + 9.01v
GND -- Orange= + 3.58v

The Resistors on Final Board
without removing PCB on foil side.

R2 = 5.4 Ohm
R3 = 5.5 Ohm

R4 = 5.4 Ohm
R5 = 5.4 Ohm

Resistors still in place on PCB

do I need to remove the 6164B's
and flip Final PCB out to test better.

Thanks Bob M VK4HAY

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I should have read in the subject line that the display did not
work. Is the dummy plug securely in the VFO socket on the back ?
> Walt N9WB
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 8:07 AM
> Subject: Re: [TS-520_820_530_830] TS-530s NoDisplay or RX
>
>
> I think that the resistors you are referring to are the ones
that go to the plate caps. these are parasitic chokes. The wire
around them rejects VHF parasitic and the resister part serves as a
reject load and turns the parasitic energy to heat. Does the read
out work?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Bob M
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 2:05 AM
> Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX
>
> G'day All,
>
> My TS-530s has decided to play Dead. Worked great on Tuesday
night
> but when I turned it on this morning the Dial lights came on the
> leds work but nada no one was home.
>
> I've tightend all the board screws, cleaned the band switch and
pots,
> checked SG switch, the HV resistors read 5 ohm and 3 ohms. The
one
> thing I find strange was that they were overwound by 4 turns of
bare
> wire (like the Resistor tails) connected at each end I would

have
> assumed that this would have created a dead short bypassing the
> resistors. Is this normal??
>
> The unit has worked almost flawlessly for the paost 2 1/2 years.
> once or twice no display or RX for 30 Seconds to 1 min then fine
> again.
>
> I have replaced the 12BY7A with 2 others same result.
>
> I'm only at a basic level for poject but would like any advise
that
> will help me get it going again.
>
> Regards Bob M. VK4HAY
>

9891. Corrected: Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 10:26:13 UTC
From: n9wb
Topic: 9891 Message: 9891

Bob:

I really must be following too many of these repair projects at once. Let me try this again, this time for the TS-530.

Bob:
I told you something incorrect in an earlier message. There is no jumper plug required for the VFO socket in the TS-530. There is one required for the 520 and 820. In the 830, a internal switch in the DIN socket does this.

Remove any plugs from the VFO socket or the accessory socket.

If the display is dead and the rig has no receive, the problem is not on the final PA board.

You have no fix switch on the 530 so disregard that in my last message.

Please tell me, do you get receive ? Do you hear anything from the speaker hiss, hum ?

If you push the RF ATT on, does the RF ATT light above the display light ? I am not suspecting the RF Attenuator itself, but this tells me something. Does your s meter do anything ?

Vy 73, Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 4:52 AM
Subject: Re: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX

----- Original Message -----
From: Bob M
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 05, 2006 8:54 AM
Subject: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX

OK here goes I'll reply in one email to Bill,Ken and Walt and any others that may be watching.

Results so Far.

TPG -- 12 = +12.06v
TPG -- TP6 = + 9.01v
14G -- 14A = +17.95v

Not sure wich way pins are numbered
Connector 11 from 14A end

GND -- Brown = + 2.07v
GND -- Blue = + 1.63v
GND -- Red = + 9.02v
GND -- Green = + 9.01v
GND -- Orange= + 3.58v

The Resistors on Final Board
without removing PCB on foil side.

R2 = 5.4 Ohm
R3 = 5.5 Ohm
R4 = 5.4 Ohm
R5 = 5.4 Ohm

Resistors still in place on PCB

do I need to remove the 6164B's
and flip Final PCB out to test better.

Thanks Bob M VK4HAY

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I should have read in the subject line that the display did not
work. Is the dummy plug securely in the VFO socket on the back ?
> Walt N9WB
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 8:07 AM
> Subject: Re: [TS-520_820_530_830] TS-530s NoDisplay or RX
>
>
> I think that the resistors you are referring to are the ones
that go to the plate caps. these are parasitic chokes. The wire
around them rejects VHF parasitic and the resister part serves as a
reject load and turns the parasitic energy to heat. Does the read
out work?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Bob M
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 2:05 AM
> Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX
>
> G'day All,
>

> My TS-530s has decided to play Dead. Worked great on Tuesday
night
> but when I turned it on this morning the Dial lights came on the
> leds work but nada no one was home.
>
> I've tightend all the board screws, cleaned the band switch and
pots,
> checked SG switch, the HV resistors read 5 ohm and 3 ohms. The
one
> thing I find strange was that they were overwound by 4 turns of
bare
> wire (like the Resistor tails) connected at each end I would
have
> assumed that this would have created a dead short bypassing the
> resistors. Is this normal??
>
> The unit has worked almost flawlessly for the paost 2 1/2 years.
> once or twice no display or RX for 30 Seconds to 1 min then fine
> again.
>
> I have replaced the 12BY7A with 2 others same result.
>
> I'm only at a basic level for poject but would like any advise
that
> will help me get it going again.
>
> Regards Bob M. VK4HAY
>

9892. Re: TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 10:53:54 UTC
From: max_ve3tmt
Topic: 9888 Message: 9892

--- In TS-520_820_530_830@yahoogroups.com, "w5mhl" <w5mhl@...> wrote:
>
> What is the purpose of the CWT adjustment accessed from the bottom of
> the unit? How should it be adjusted?

This is the CW offset adjustment. I learned the hard way. While adjusting the xtal oscillator trimmers I put the screwdriver in this hole by mistake. I don't do much CW so I'm not worried about it. If I ever get a freq counter in the shack I'll fix it then. Just below that pot, VR2, is the SSB carrier point adjustment. If you want to add more lows to your SSB signal this is the one. Only trouble is it has the opposite effect on the opposite sideband. So you have to adjust it so you sound the same on both sidebands. I have rewired mine to the front panel TONE control so I can adjust it on the fly. On one end it brings in some nice lows for ragchewing or you can set it on the high side for busting through the pileups. Most of the time I don't touch it.

Max VE3TMT

9893. Re: [TS-520_820_530_830] Re: TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 12:06:03 UTC
From: n9wb
Topic: 9888 Message: 9893

If you accidentally turn it, get with somebody on CW. Have him tune to you. nudge the pot one way or the other so when he tunes to you, you hear him with a tone of about 700 Hz. He will have to retune each time you nudge the pot.

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 5:53 AM
Subject: [TS-520_820_530_830] Re: TS-830 cw adjustment

--- In TS-520_820_530_830@yahoogroups.com, "w5mhl" <w5mhl@...> wrote:
>
> What is the purpose of the CWT adjustment accessed from the bottom of
> the unit? How should it be adjusted?

This is the CW offset adjustment. I learned the hard way. While adjusting the xtal oscillator trimmers I put the screwdriver in this hole by mistake. I don't do much CW so I'm not worried about it. If I ever get a freq counter in the shack I'll fix it then. Just below that pot, VR2, is the SSB carrier point adjustment. If you want to add more lows to your SSB signal this is the one. Only trouble is it has the opposite effect on the opposite sideband. So you have to adjust it so you sound the same on both sidebands. I have rewired mine to the front panel TONE control so I can adjust it on the fly. On one end it brings in some nice lows for ragchewing or you can set it on the high side for busting through the pileups. Most of the time I don't touch it.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/464 - Release Date: 10/5/06

[Non-text portions of this message have been removed]

9894. Corrected: Re: TS-530s NoDisplay or RX.. All is Well again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 11:52:41 UTC
From: Bob M
Topic: 9891 Message: 9894

Walt, Do not worry about it I understood what you were on about.

OK I kept cleaning the earths screws and the Ground Springs on the band switch. Cleaned the Brown jumper wire on the push on pins at the Filters also I the push on Black cable on the PLL Board I think it's the VCO cable. I went back and tested the Radio.

So now it is all running OK again, Just had a 2 hour QSO down to brisbane about 400 miles away Great Reports both ways.

Thanks for the suggestions and help. I'd still be interested in info to check on general servicing. I'd like to try and get a 830s.

I do not write much but I read every daily digest from this group.

Take care and maybe one day I can help someone. I do tell other Australian Kenwood users of the Group if that are having problems.

Keep up the good work

73
Bob M. VK4HAY

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Bob:
>
> I really must be following too many of these repair projects at once. Let me
> try this again, this time for the TS-530.
>
> Bob:
> I told you something incorrect in an earlier message. There is no jumper
> plug required for the VFO socket in the TS-530. There is one required for
> the 520 and 820. In the 830, a internal switch in the DIN socket does this.
>
> Remove any plugs from the VFO socket or the accessory socket.
>
> If the display is dead and the rig has no receive, the problem is not on the
> final PA board.
>
> You have no fix switch on the 530 so disregard that in my last message.

>
> Please tell me, do you get receive ? Do you hear anything from the
speaker
> hiss, hum ?
>
> If you push the RF ATT on, does the RF ATT light above the
> display light ? I am not suspecting the RF Attenuator itself, but
this tells
> me something. Does your s meter do anything ?
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 06, 2006 4:52 AM
> Subject: Re: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX
>
>
> ----- Original Message -----
> From: Bob M
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, October 05, 2006 8:54 AM
> Subject: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX
>
> OK here goes I'll reply in one email to Bill,Ken and Walt and any
> others that may be watching.
>
> Results so Far.
>
> TPG -- 12 = +12.06v
> TPG -- TP6 = + 9.01v
> 14G -- 14A = +17.95v
>
> Not sure wich way pins are numbered
> Connector 11 from 14A end
>
> GND -- Brown = + 2.07v
> GND -- Blue = + 1.63v
> GND -- Red = + 9.02v
> GND -- Green = + 9.01v
> GND -- Orange= + 3.58v
>
> The Resistors on Final Board
> without removing PCB on foil side.
>
> R2 = 5.4 Ohm
> R3 = 5.5 Ohm
> R4 = 5.4 Ohm

> R5 = 5.4 Ohm
>
> Resistors still in place on PCB
>
> do I need to remove the 6164B's
> and flip Final PCB out to test better.
>
> Thanks Bob M VK4HAY
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I should have read in the subject line that the display did not
> work. Is the dummy plug securely in the VFO socket on the back ?
> > Walt N9WB
> >
> > ----- Original Message -----
> > From: n9wb
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, October 04, 2006 8:07 AM
> > Subject: Re: [TS-520_820_530_830] TS-530s NoDisplay or RX
> >
> >
> > I think that the resistors you are referring to are the ones
> that go to the plate caps. these are parasitic chokes. The wire
> around them rejects VHF parasitic and the resister part serves as a
> reject load and turns the parasitic energy to heat. Does the read
> out work?
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Bob M
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, October 04, 2006 2:05 AM
> > Subject: [TS-520_820_530_830] TS-530s NoDisplay or RX
> >
> > G'day All,
> >
> > My TS-530s has decided to play Dead. Worked great on Tuesday
> night
> > but when I turned it on this morning the Dial lights came on the
> > leds work but nada no one was home.
> >
> > I've tightend all the board screws, cleaned the band switch and
> pots,
> > checked SG switch, the HV resistors read 5 ohm and 3 ohms. The
> one
> > thing I find strange was that they were overwound by 4 turns of
> bare
> > wire (like the Resistor tails) connected at each end I would

> have
> > assumed that this would have created a dead short bypassing the
> > resistors. Is this normal??
> >
> > The unit has worked almost flawlessly for the paost 2 1/2 years.
> > once or twice no display or RX for 30 Seconds to 1 min then fine
> > again.
> >
> > I have replaced the 12BY7A with 2 others same result.
> >
> > I'm only at a basic level for poject but would like any advise
> that
> > will help me get it going again.
> >
> > Regards Bob M. VK4HAY
> >
>

9895. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 12:31:25 UTC
From: Ellen R
Topic: 9875 Message: 9895

Hmmmmm, all of the talk about this mod for the TS-830S, makes me w9onder if it wouldn't be a good mod for the 820 series. Any ideas on the issue?

Ellen - AF9J
The TS-820 girl

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> ALL 100 are Now Spoken For.
>
>
> 73,
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks to everyone that emailed me off list. It looks as if 92 of the
> > 100 are now spoken for. I may have to buy more. :-)
> >
> > I am sending confirmation emails to each person that requested them so
> > you'll know your on the list.
> >
> > 73,
> > Gordon
> >
>

9896. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes and TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 13:15:40 UTC
From: Dave and Loraine
Topic: 9896 Message: 9896

Hi Ellen and all,

I'm about to start the Inrad mods to replace the original noisy dual-gate mosfets (Q2, 3, 6 &7) on
the RF board.
All this talk of reducing noise by replacing diodes makes me wonder if I'm barking up the wrong
tree...

Maybe both mods should be done?

73 Dave F4EYK

9897. Re: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 13:55:35 UTC
From: Bob Baxter
Topic: 9873 Message: 9897

I bought a Hitachi V1100A, on Ebay for $130, that I like real well. It is 100Mhz, 4 channel, with digital readouts. I also have a Tektronix 465M which is laying in pieces waiting for Tek proprietary unobtainium parts. The older Teks are good scopes but parts are hard to come by. The main source is in Canada and the shipping costs are scarey. ($20 total for 4 diodes, and they were pulls) Buying a scope on Ebay is a pig in a poke but sometimes you get lucky. It's best to buy one you can see and feel but I live in a small town and didn't have that option.

Bob Baxter aa7eq

--- N3DOK <n3dok@...> wrote:

> Hi,
>
> I'm looking for a used oscilloscope for use in the
> repair of the Kenwood TS series Hybrid transceivers.
> Any suggestions on a used oscilloscope for
> beginners? I do not want a full blown service scope.
> Any suggestions of brand and model number.
>
> I have said it before, Thanks to all on this group
> that help keep the Kenwood TS Hybrid Transceivers on
> the air!
>
> Thank You,
> Bob Ferrey Jr. N3DOK
> Pittsburgh PA
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

9898. Re: Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 15:13:04 UTC
From: baumbrent
Topic: 9873 Message: 9898

My wife bought me an old Heathkit scope, I think its an HC-10(??),
at a thrift store. no leads, no manuals, no etc. except it gives a
nice trace. Does anyone know if it is up to the task of working on a
TS-520SE?
Thanks,
Brent, K7MEI

--- In TS-520_820_530_830@yahoogroups.com, Bob Baxter <aa7eqham@...>
wrote:
>
> I bought a Hitachi V1100A, on Ebay for $130, that I
> like real well. It is 100Mhz, 4 channel, with digital
> readouts. I also have a Tektronix 465M which is
> laying in pieces waiting for Tek proprietary
> unobtainium parts. The older Teks are good scopes but
> parts are hard to come by. The main source is in
> Canada and the shipping costs are scarey. ($20 total
> for 4 diodes, and they were pulls) Buying a scope on
> Ebay is a pig in a poke but sometimes you get lucky.
> It's best to buy one you can see and feel but I live
> in a small town and didn't have that option.
>
> Bob Baxter aa7eq
>
> --- N3DOK <n3dok@...> wrote:
>
> > Hi,
> >
> > I'm looking for a used oscilloscope for use in the
> > repair of the Kenwood TS series Hybrid transceivers.
> > Any suggestions on a used oscilloscope for
> > beginners? I do not want a full blown service scope.
> > Any suggestions of brand and model number.
> >
> > I have said it before, Thanks to all on this group
> > that help keep the Kenwood TS Hybrid Transceivers on
> > the air!
> >
> > Thank You,
> > Bob Ferrey Jr. N3DOK
> > Pittsburgh PA
> >
> >
> >

> > [Non-text portions of this message have been
> > removed]
> >
> >
>

9899. Re: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 15:21:35 UTC
From: Max Harelik
Topic: 9873 Message: 9899

I've been looking for a scope as well, and will be going to a hamfest at Belton, TX, tomorrow. In the past, such equipment has been powered up, and one can twiddle the knobs/switches, but that's pretty meaningless without some benchmarks or other means of comparison. Any guidance as to what to look for will be greatly appreciated. Thanks, group.

73,
Max, K5OVW

Bob Baxter wrote:

> I bought a Hitachi V1100A, on Ebay for $130, that I
> like real well. It is 100Mhz, 4 channel, with digital
> readouts. I also have a Tektronix 465M which is
> laying in pieces waiting for Tek proprietary
> unobtainium parts. The older Teks are good scopes but
> parts are hard to come by. The main source is in
> Canada and the shipping costs are scarey. ($20 total
> for 4 diodes, and they were pulls) Buying a scope on
> Ebay is a pig in a poke but sometimes you get lucky.
> It's best to buy one you can see and feel but I live
> in a small town and didn't have that option.
>
> Bob Baxter aa7eq
>

9900. Re: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 15:39:24 UTC
From: Bill Scurlock
Topic: 9873 Message: 9900

Max,

I'm leaving for Belton right now and will have a table there. Stop by and look at my Kenwood's and we can talk scopes. Sorry, mine is not for sale. Hope to meet you tomorrow.

73, Bill, K5GCW
----- Original Message -----
From: Max Harelik
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 10:21 AM
Subject: Re: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

I've been looking for a scope as well, and will be going to a hamfest at
Belton, TX, tomorrow. In the past, such equipment has been powered up,
and one can twiddle the knobs/switches, but that's pretty meaningless
without some benchmarks or other means of comparison. Any guidance as to
what to look for will be greatly appreciated. Thanks, group.

73,
Max, K5OVW

Bob Baxter wrote:

> I bought a Hitachi V1100A, on Ebay for $130, that I
> like real well. It is 100Mhz, 4 channel, with digital
> readouts. I also have a Tektronix 465M which is
> laying in pieces waiting for Tek proprietary
> unobtainium parts. The older Teks are good scopes but
> parts are hard to come by. The main source is in
> Canada and the shipping costs are scarey. ($20 total
> for 4 diodes, and they were pulls) Buying a scope on
> Ebay is a pig in a poke but sometimes you get lucky.
> It's best to buy one you can see and feel but I live
> in a small town and didn't have that option.
>
> Bob Baxter aa7eq
>

[Non-text portions of this message have been removed]

9901. Re: [TS-520_820_530_830] Re: Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 15:41:02 UTC
From: Bill Scurlock
Topic: 9873 Message: 9901

Brent,

Go to the BAMA site and see if they have a manual for it. Then you can read it and see what the specs are.

73, Bill, K5GCW
----- Original Message -----
From: baumbrent
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 10:13 AM
Subject: [TS-520_820_530_830] Re: Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

My wife bought me an old Heathkit scope, I think its an HC-10(??),
at a thrift store. no leads, no manuals, no etc. except it gives a
nice trace. Does anyone know if it is up to the task of working on a
TS-520SE?
Thanks,
Brent, K7MEI

--- In TS-520_820_530_830@yahoogroups.com, Bob Baxter <aa7eqham@...>
wrote:
>
> I bought a Hitachi V1100A, on Ebay for $130, that I
> like real well. It is 100Mhz, 4 channel, with digital
> readouts. I also have a Tektronix 465M which is
> laying in pieces waiting for Tek proprietary
> unobtainium parts. The older Teks are good scopes but
> parts are hard to come by. The main source is in
> Canada and the shipping costs are scarey. ($20 total
> for 4 diodes, and they were pulls) Buying a scope on
> Ebay is a pig in a poke but sometimes you get lucky.
> It's best to buy one you can see and feel but I live
> in a small town and didn't have that option.
>
> Bob Baxter aa7eq
>
> --- N3DOK <n3dok@...> wrote:
>
> > Hi,
> >
> > I'm looking for a used oscilloscope for use in the
> > repair of the Kenwood TS series Hybrid transceivers.
> > Any suggestions on a used oscilloscope for
> > beginners? I do not want a full blown service scope.

> > Any suggestions of brand and model number.
> >
> > I have said it before, Thanks to all on this group
> > that help keep the Kenwood TS Hybrid Transceivers on
> > the air!
> >
> > Thank You,
> > Bob Ferrey Jr. N3DOK
> > Pittsburgh PA
> >
> >
> >
> > [Non-text portions of this message have been
> > removed]
> >
> >
>

[Non-text portions of this message have been removed]

9902. Re: [TS-520_820_530_830] Re: Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 16:51:18 UTC
From: Peter A Markavage
Topic: 9873 Message: 9902

Heathkit model number scopes generally started with IO(kit version) or SO(wired version). They did make a monitor scope, HO-10, and a panadapter scope, HO-13. Neither are good for trouble shooting.

Pete, wa2cwa

On Fri, 06 Oct 2006 15:13:04 -0000 "baumbrent" <brentbaum5323@...> writes:
> My wife bought me an old Heathkit scope, I think its an HC-10(??),
> at a thrift store. no leads, no manuals, no etc. except it gives a
> nice trace. Does anyone know if it is up to the task of working on a
>
> TS-520SE?
> Thanks,
> Brent, K7MEI
>

9903. Re: [TS-520_820_530_830] Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 16:59:34 UTC
From: David Rust
Topic: 9801 Message: 9903

My 530s has done this on occasion, however, it has always been in the off/on switch. It happened again this morning, same symptoms you describe. I think I will just pull the plug from now on and leave the switch in the on position.

Try working your switch rapidly several times. Thats what I have done and it has always eventually turned it all on.

73 Dave W0DLR

[Non-text portions of this message have been removed]

9904. Re: [TS-520_820_530_830] Re: Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 17:11:25 UTC
From: BRENT BAUM
Topic: 9873 Message: 9904

Thanks Pete. You're right it is an IO-10. I'm sitting at my office and can't see the scope, it's 40 miles away. At least it's not an ID-10-T.
Brent, K7MEI

>From: Peter A Markavage <pmarkavage@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: Looking for a used oscilloscope for
>use in the repair of the Kenwood TS series Hybrid transceivers
>Date: Fri, 6 Oct 2006 12:51:18 -0400
>
>Heathkit model number scopes generally started with IO(kit version) or
>SO(wired version). They did make a monitor scope, HO-10, and a panadapter
>scope, HO-13. Neither are good for trouble shooting.
>
>Pete, wa2cwa
>
>On Fri, 06 Oct 2006 15:13:04 -0000 "baumbrent" <brentbaum5323@...>
>writes:
> > My wife bought me an old Heathkit scope, I think its an HC-10(??),
> > at a thrift store. no leads, no manuals, no etc. except it gives a
> > nice trace. Does anyone know if it is up to the task of working on a
> >
> > TS-520SE?
> > Thanks,
> > Brent, K7MEI
> >

9905. Re: [TS-520_820_530_830] Looking for a used oscilloscope for use in the repair of the Kenwood TS series Hybrid transceivers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 19:04:02 UTC
From: Bob Baxter
Topic: 9873 Message: 9905

The rule of thumb, for the most accurate readings on
an oscilloscope, is twice the bandwidth of interest so
for hf a 60Mhz scope would be the minumum desired.
That's not to say a lower bandwidth wouldn't be
useful. For some really good information on the basic
use of scopes download Paul Harden's "The Handyman's
Guide to Oscilloscopes parts 1 and 2," at
www.nrao.edu/~pharden/hobby/Scope2.pdf and
www.nrao.edu/~pharden/hobby/Scope1.pdf

Try to buy one with probes and a manual. Some manuals
are available on the Internet, you will need both the
operators and service manuals (if they are separate).
Probes are available on Ebay with the cheaper ones at
$25 for a set of 2, and $50 and up for the better
ones.

Bob Baxter aa7eq

--- Max Harelik <mharelik@...> wrote:

> I've been looking for a scope as well, and will be
> going to a hamfest at
> Belton, TX, tomorrow. In the past, such equipment
> has been powered up,
> and one can twiddle the knobs/switches, but that's
> pretty meaningless
> without some benchmarks or other means of
> comparison. Any guidance as to
> what to look for will be greatly appreciated.
> Thanks, group.
>
> 73,
> Max, K5OVW

9906. TS-830s and no talk of divorce

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 19:12:52 UTC
From: David Rust
Topic: 9906 Message: 9906

The 830s arrived via UPS just a while ago. The radio is very clean as stated, everything seems to work on the receiver as it should, with the exception of the bandswitch. Not a hard fix, not real bad, but I know detect from moving it a little in each position there is some up and down signal strength, etc. So thats got to have attention, as well as a good spray cleaning.

I havent' opened the tube compartment to see what kind of tubes are in it just yet. I have read the chinese tubes are not the best to start with, so I am anxious to see what is in there. I'll get into that this evening perhaps, keep you guys informed, I'm sure I'll need some help to get the transmit up and going.
73 Dave W0DLR

[Non-text portions of this message have been removed]

9907. Re: TS-530s NoDisplay or RX

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 21:06:26 UTC
From: Bob M
Topic: 9801 Message: 9907

Thanks David,

I'm sure you could fix it by applying some cleaner and then working the switch a number of times that is unless it's a mechanical problem.

They are not easy to get at beside the base plate. I dislike just pluging in for on/off if you dont get a good puch in the contact can be intermitent and can produce surge like events in the radio.

Regards Bob M

-- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> My 530s has done this on occasion, however, it has always been in the off/on switch. It happened again this morning, same symptoms you describe. I think I will just pull the plug from now on and leave the switch in the on position.
>
> Try working your switch rapidly several times. Thats what I have done and it has always eventually turned it all on.
>
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

9909. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 22:50:35 UTC
From: Gordon
Topic: 9875 Message: 9909

Ellen,
Since the circuits are very similar, I can see NO reason why it
wouldn't work as well on the 820 as it does on the 830.
I have to tell you, I was Really impressed with the results of doing
the Product detector Mod. The 830 now hears stuff that my TS-2000 can
not. The TS-2000 can hear someone in the noise when they are really
weak, but the 830 can hear WHO it is in the noise when really weak.
I am impressed.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hmmmmm, all of the talk about this mod for the TS-830S, makes me
> w9onder if it wouldn't be a good mod for the 820 series. Any ideas
> on the issue?
>
> Ellen - AF9J
> The TS-820 girl
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > ALL 100 are Now Spoken For.
> >
> >
> > 73,
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Thanks to everyone that emailed me off list. It looks as if 92 of
> the
> > > 100 are now spoken for. I may have to buy more. :-)
> > >
> > > I am sending confirmation emails to each person that requested
> them so
> > > you'll know your on the list.
> > >
> > > 73,
> > > Gordon
> > >
> >

>

9910. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 23:21:16 UTC
From: max_ve3tmt
Topic: 9875 Message: 9910

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:

The 830 now hears stuff that my TS-2000 can not. The TS-2000 can hear
someone in the noise when they are really weak, but the 830 can hear
WHO it is in the noise when really weak.

I am impressed.
73,
Gordon

Geesh Gordon, I'm anxious enough waiting for my diodes to arrive!
I will be changing the modulator diodes as well. I also have a VFO-230
coming to the shack next week as well. Will feel like XMAS around here
next week!

Max VE3TMT

9911. New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 23:06:43 UTC
From: sm0wid
Topic: 9911 Message: 9911

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July from a friend. This "rig" has been standing on a shelf at a car company for at least 10 years. I have checked out "The Groups" message and found a couple of answers who was related to some Rx-problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now it´s time for the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

9912. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 23:40:50 UTC
From: Gordon
Topic: 9875 Message: 9912

Wow Max,
Yes, I know what that feeling is like. I love it when I buy myself
things to play with.
Last week I upgraded my computer monitor with a 19" flat screen. I had
already upgraded the other 2 computers to 17" flat screens.
Week before that I bought a new Freq Counter and before that I bought
some other stuff along with new 300 gig hard drives for all 3
computers. Yesterday I ordered some new Probes for the scope.
By XMAS time, I should already have everything I need. hi hi.
I can tell you, I am sure you will be impressed with the Product
Detector mod.
I am shipping the first 100 Diodes out tomorrow. (well actually the
first 92.) I will ship the rest on Monday.
I so far have orders for almost 150 of them. Luckily I ordered the
extra 100.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
>
> The 830 now hears stuff that my TS-2000 can not. The TS-2000 can hear
> someone in the noise when they are really weak, but the 830 can hear
> WHO it is in the noise when really weak.
>
> I am impressed.
> 73,
> Gordon
>
>
> Geesh Gordon, I'm anxious enough waiting for my diodes to arrive!
> I will be changing the modulator diodes as well. I also have a VFO-230
> coming to the shack next week as well. Will feel like XMAS around here
> next week!
>
> Max VE3TMT
>

9913. RE: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 23:48:19 UTC
From: Walter Milton
Topic: 9703 Message: 9913

Gordon,

That is no problem. What is your paypal information. I would like to get
the funds to you before I go on travel next week.

Again, THANKS,
Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N6WK
Sent: Friday, October 06, 2006 5:55 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S Product Detector Mod

Hello Walt,
I have your 8 diodes ready to ship. I set you up with a full matched
set of 8 diodes.
the cost is 11 cents each which is 88 cents plus 30 cents for the
padded envelope and 78 cents shippin. Total of $ 1.96
If you wish to pay with paypal, you will need to add 36 cents to cover
the charges they will charge me. I am doing this at NO profit at all to me.
Please verify your mailing address as:
WALTER MILTON
2359 BAIRD BLVD
CAMDEN NJ 08105-2048

73,
Gordon
N6WK

Walter Milton wrote:

> Gordon,
>
> When you get your shipment of diodes in. I would like to order 8 of them
> from you. I am good in the callbook and on QRZ. I can also pay by paypal
> or any other means.
>
> Thanks,
> Walt, KA2NJF
> Psalm 1
> A Child of the living God

> Walt
>
>
> _____
>
> From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of Gordon
> Sent: Wednesday, October 04, 2006 5:12 PM
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Subject: [TS-520_820_530_830] Re: TS-830S Product Detector Mod
>
> Thanks Rick,
> I agree about the fix. This Radio hears REALLY great now after the
> fix and alignment.
> If you ever need any diodes, just drop me a note.
> I should have them in 2 days as the seller is close and already
> notified me they will ship tomorrow.
> 73,
> Gordon
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups. <mailto:830%40yahoogroups.com> com
<mailto:830%40yahoogroups.com>, Rick May
> <kc0hh@...> wrote:
> >
> > HI Gordon,
> >
> > That will work....Good price... I paid 35 cents apiece for the
> ones I bought last year and thought that was cheap. 100 of them will
> do quite a few radios. When I first powered my 830S up after swapping
> the diodes, I thought I had failed to re-connect something inside. The
> receiver was so much quieter. It really is a worthwile mod.
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
> >
> > Gordon <n6wk@...> wrote: Hi Rick,
> > I just bought 100pcs VISHAY 1N5711 15mA 70 Volt Schottky Rectifiers
> > for $9.50 plus shipping. When I get them, I will put them in matched
> > sets of 4 or 8. Then, I will be happy to sell them out to anyone who
> > needs them.
> > Thanks for the info on where to get them.
> > 73,

> > Gordon
> >
> >
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > How low will we go? Check out Yahoo! Messenger's low PC-to-Phone
> call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9914. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-06 23:58:52 UTC
From: amfone@sbcglobal.net
Topic: 9911 Message: 9914

Anders
Hope to work you soon.
73 tim
wb8uhz
----- Original Message -----
From: sm0wid
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:06 PM
Subject: [TS-520_820_530_830] New Member from Sweden.

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now ít´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

[Non-text portions of this message have been removed]

9915. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 02:38:58 UTC
From: Chris HEmbree
Topic: 9875 Message: 9915

I would like to be on your list.I am new to the group and picked up a 830s about 2 weeks ago. My first mod will be to change out C106. I have the new cap. Just need time to do it.How much better is the radio with the Schottky Diodes?
Chris W7CTH

Gordon <n6wk@...> wrote: Hi All,
Because of the great response I received about the Schottky Diodes,
I ordered another 100 of them. This way I will be able to match
everyones diode order very closely. I want you all to get diodes that
are matched as close as I can get them.
So, I will be able to fill everyones order.
At 11 cents each, I don't think anyone can go wrong.
Thanks Guys.
All orders should ship by Saturday.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I have received the Schottky Diodes. I am in the process of measuring
> all of them and putting them in matching groups of 4.
> I will notify each and everyone that wanted some tomorrow of your ship
> dates.
> 73,
> Gordon
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > ALL 100 are Now Spoken For.
> >
> >
> > 73,
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Thanks to everyone that emailed me off list. It looks as if 92
of the
> > > 100 are now spoken for. I may have to buy more. :-)
> > >
> > > I am sending confirmation emails to each person that requested

them so
> > > you'll know your on the list.
> > >
> > > 73,
> > > Gordon
> > >
> >
>

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

9916. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 02:56:09 UTC
From: N6WK
Topic: 9875 Message: 9916

Hi Chris,
I find the Diodes make a nice difference in lowering the noise floor.
I will put you down for 4 diodes to do the Product detector Mod on the 830.
Welcome aboard the group.
73,
Gordon

Chris HEmbree wrote:

> I would like to be on your list.I am new to the group and picked up a
> 830s about 2 weeks ago. My first mod will be to change out C106. I
> have the new cap. Just need time to do it.How much better is the radio
> with the Schottky Diodes?
> Chris W7CTH
>
> Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote: Hi All,
> Because of the great response I received about the Schottky Diodes,
> I ordered another 100 of them. This way I will be able to match
> everyones diode order very closely. I want you all to get diodes that
> are matched as close as I can get them.
> So, I will be able to fill everyones order.
> At 11 cents each, I don't think anyone can go wrong.
> Thanks Guys.
> All orders should ship by Saturday.
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > I have received the Schottky Diodes. I am in the process of measuring
> > all of them and putting them in matching groups of 4.
> > I will notify each and everyone that wanted some tomorrow of your ship
> > dates.
> > 73,
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > ALL 100 are Now Spoken For.
> > >
> > >

> > > 73,
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > > >
> > > > Thanks to everyone that emailed me off list. It looks as if 92
> of the
> > > > 100 are now spoken for. I may have to buy more. :-)
> > > >
> > > > I am sending confirmation emails to each person that requested
> them so
> > > > you'll know your on the list.
> > > >
> > > > 73,
> > > > Gordon
> > > >
> > >
> >
>
>
>
>
>
>
> ---
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9917. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 03:48:29 UTC
From: Bill Richarz
Topic: 9875 Message: 9917

Gordon,

I was wondering if there is any kind of a mod like
that
for the TS-820?

Maybe I should trade my TS-820S for an 830.

tnx,
de Bill, N4DH

--- Gordon <n6wk@...> wrote:

> Wow Max,
> Yes, I know what that feeling is like. I love it
> when I buy myself
> things to play with.
> Last week I upgraded my computer monitor with a 19"
> flat screen. I had
> already upgraded the other 2 computers to 17" flat
> screens.
> Week before that I bought a new Freq Counter and
> before that I bought
> some other stuff along with new 300 gig hard drives
> for all 3
> computers. Yesterday I ordered some new Probes for
> the scope.
> By XMAS time, I should already have everything I
> need. hi hi.
> I can tell you, I am sure you will be impressed with
> the Product
> Detector mod.
> I am shipping the first 100 Diodes out tomorrow. (
> well actually the
> first 92.) I will ship the rest on Monday.
> I so far have orders for almost 150 of them. Luckily
> I ordered the
> extra 100.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com,
> "max_ve3tmt"
> <max_ve3tmt@...> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com,

> "Gordon" <n6wk@> wrote:
> >
> > The 830 now hears stuff that my TS-2000 can not.
> The TS-2000 can hear
> > someone in the noise when they are really weak,
> but the 830 can hear
> > WHO it is in the noise when really weak.
> >
> > I am impressed.
> > 73,
> > Gordon
> >
> >
> > Geesh Gordon, I'm anxious enough waiting for my
> diodes to arrive!
> > I will be changing the modulator diodes as well. I
> also have a VFO-230
> > coming to the shack next week as well. Will feel
> like XMAS around here
> > next week!
> >
> > Max VE3TMT
> >
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

9918. Tuning up TS-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 04:12:21 UTC
From: Kevin Keyes
Topic: 9918 Message: 9918

I'm new owner of a TS-830s and have some questions regarding the tuning procedure.

1.) What is the ideal plate reading in mA? I have read anything from 225 to 265 mA. I understand that higher mA reduces the life expectancy of the tubes.

2.) I am unable to achieve anything close to 200 mA when tuning up on 80 meters. Do lower frequencies cause a loss of mA or am I not doing something right?

3.) I find the midpoint of the band on which I am authorized to operate and tune up. Do I need to retune as I move away from the midpoint?

4.) I use SSB exclussively. However, part of the manual's tune up procedure calls for placing the mode switch to CW, closing the key and redipping the plate and repeaking the load. Is this a necessary procedure since I don't use CW?

Many thanks in advance. This is a great radio and I just want to make sure I'm using it correctly to its fullest potential.

73,
Kevin - KI4KFS

9920. Re: TS830 Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 04:40:20 UTC
From: pgweber
Topic: 9685 Message: 9920

Jim that's great news. It took me several months of sporadic troubleshooting to find that failed resistor, then 99 cents at Radio Shack to fix it. I learned a lot though, and it makes running the 830s just that much sweeter.

Regards,
Pete KE5CTT

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback" <jstonebk@...> wrote:
>
> Gordon made a believer of me; check the rectifier board components. When I was checking the sidetone circuit, I removed each component and measured it either with DVM or my capacitor meter. The zener I checked by setting up a little circuit on the bench to see if it regulated at 9 vdc. I was really discouraged when all the parts checked out OK. I went ahead and replaced the transistor and zener diode anyway, to no avail until I checked and found R13 open. Now everything works hunky dorry. And I saved the cost of a repair plus 2way shipping!
>
> 73,
>
> Jim K4AXF
>
>
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 02, 2006 7:55 PM
> Subject: [TS-520_820_530_830] Re: TS830 Problem
>
>
>
> Yes Pete,
> The components on the Recifier board are common failures. I have
> found many open or changed value components there on the 830 and
the
> 820. It is always a good place to start looking when diagnosing a
> problem on these rigs.
> I had suggested that Jim check R-12 and R-13. He found R-13 was
> open. He replaced it and his rig is working great again.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "pgweber" <pgweber@>

wrote:
> >
> > My 830s developed a raspy sidetone that was caused by a bad
resistor
> > on the rectifier board. In my case the resistor didn't open, it
> > just changed value. I believe this resistor supplied the STB
> > voltage. The resistor failed because of a QRO mod someone had
done
> > before I owned the rig. Hope this helps.
> > 73
> > Pete KE5CTT
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@>
wrote:
> > >
> > > I suspect the problem is in the sidetone oscillator keying
circuit
> > or
> > > the sidetone oscillator itself.
> > >
> > > My recommendations are to use an o'scope. Ohm meters can't
tell
> > > whether a capacitor is good or not. An ohm meter usually can
only
> > > detect a shorted capacitor. Ohm meters can not provide
sufficient
> > > voltage to show capacitor leakage. There are, however, DVM's
that
> > can
> > > tell the capacitance value but the capacitor must be out of
the
> > > circuit. I don't trust them when the capacitor is in the
circuit,
> > too
> > > many other components in the circuit that can contribute to
> > confusion
> > > with the reading.
> > >
> > > Checking transistors in a circuit is difficult. Normally, for
> > example,
> > > a PNP transistor will have a more positive voltage on the
collector
> > > when it is not conducting but a much less positive voltage
when it
> > is
> > > conducting. The opposite voltage polarity is true with an NPN
> > > transistor. The arrow on the component symbol determines the
type
> > of
> > > transistor, PNP or NPN.

> > >
> > > The base biasing circuit should show a change with keying. If
it
> > does
> > > but the collector voltage remains unchanged, then more than
likely
> > the
> > > transistor is bad. This can be seen very easily with an
o'scope.
> > >
> > > Another helpful hint is to understand how the circuit works
before
> > > attempting to troubleshoot. Most Kenwood manuals have a
section
> > that
> > > discribes the circuit operation which may point you in the
right
> > > direction.
> > >
> > > I am, however, curious about the TP1 audio injection you are
doing.
> > > Maybe you could provide a bit more information. Also some
> > additional
> > > information outlining the steps you are taking to determine
failed
> > > components etc. We're all here to help.
> > >
> > > If I can further assist you, feel free to drop me an email.
> > >
> > >
> > > 73's,
> > >
> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, John Harp
<ka3dpw@>
> > wrote:
> > > >
> > > > Jim, this may sound a little silly comming from me another
830
> > > owner, but have you gone thru and clened the 830 recently.
Many
> > times
> > > that helps resolve the problems for me in both my 830's in
the

> > past.
> > > It may be worth a try, before you send it away. I find a good
> > cleaning
> > > has helped me see the interior and know it well on a routine
basis.
> > > You may already have and I just don't know it. Just a
suggestion.
> > > >
> > > > Jim Stoneback <jstonebk@> wrote: One last try before I
> > > ship it to a repair shop. Has anyone fixed this
> > > > problem before?
> > > >
> > > > My TS830s has no sidetone, thus no semi-QSK CW.
> > > >
> > > > With MON switch on, key depressed, there is no sine wave at
TP1,
> > no
> > > qsk, no
> > > > CW output.
> > > >
> > > > I injected a tone at TP1 and get sidetone, semi-qsk action
and CW
> > > output.
> > > >
> > > > I checked all the components in the sidetone circuit with
no bad
> > > components
> > > > found; replaced transistor and zener anyway, to no avail. My
> > > confidence is
> > > > shaken. Help!
> > > >
> > > > 73,
> > > >
> > > > Jim Stoneback
> > > > K4AXF
> > > > http://www.qsl.net/k4axf
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > ---------------------------------
> > > > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/461 - Release Date:
10/2/2006
>
>
> [Non-text portions of this message have been removed]
>

9921. Re: [TS-520_820_530_830] Tuning up TS-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 05:20:06 UTC
From: Art
Topic: 9918 Message: 9921

Hi Kevin,
My suggestion is to go to K4EAA Kens web site and he explains exactly
how to tune the Kenwood TS-830S up. I believe this is his web site.
www.dbeweb.com/Kenwood/ If this is not the web site just Google Search
his call. Hope this helps.

73
Art
WB4MNK

Kevin Keyes wrote:
>
> I'm new owner of a TS-830s and have some questions regarding the
> tuning procedure.
>
> 1.) What is the ideal plate reading in mA? I have read anything from
> 225 to 265 mA. I understand that higher mA reduces the life
> expectancy of the tubes.
>
> 2.) I am unable to achieve anything close to 200 mA when tuning up
> on 80 meters. Do lower frequencies cause a loss of mA or am I not
> doing something right?
>
> 3.) I find the midpoint of the band on which I am authorized to
> operate and tune up. Do I need to retune as I move away from the
> midpoint?
>
> 4.) I use SSB exclussively. However, part of the manual's tune up
> procedure calls for placing the mode switch to CW, closing the key
> and redipping the plate and repeaking the load. Is this a necessary
> procedure since I don't use CW?
>
> Many thanks in advance. This is a great radio and I just want to
> make sure I'm using it correctly to its fullest potential.
>
> 73,
> Kevin - KI4KFS
>
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/2006
>

9922. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 05:59:30 UTC
From: Greg
Topic: 9875 Message: 9922

Just curious about all the Schottky "upgrade" talk. Has this not been coverd many moons ago in QST etc, and it was found that although the noise floor is "apparently" lowered, it is -in effect- just an illusion, as the input RF signals are also lowered by the same same amount? When a schottky upgrade was propsed and tried for the TS820, it was later found that it really made no differnce to the actual s/n ratio.

Perhaps the particular replacment part number has changed since the original findings, but just thought I'd let you know to read up on past writings about this mod. Perhaps someone can comment about what may have changed since original testing proved a schottkey replacemnt was not as great as it seemed, when actually checked with test gear.

73 Greg

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hmmmmm, all of the talk about this mod for the TS-830S, makes me
> w9onder if it wouldn't be a good mod for the 820 series. Any ideas
> on the issue?
>
> Ellen - AF9J
> The TS-820 girl
>
>

9923. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 08:34:48 UTC
From: n9wb
Topic: 9875 Message: 9923

820 Ellen:

I understand it helps most rigs that had germanium diodes in ring modulators and detectors. The Yaesu group has been doing this to FT-101s for years. I am going to try this in my 820S when I get time. I already have the diodes.

Vy 73, Walt N9WB

----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:31 AM
Subject: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Hmmmmm, all of the talk about this mod for the TS-830S, makes me w9onder if it wouldn't be a good mod for the 820 series. Any ideas on the issue?

Ellen - AF9J
The TS-820 girl

9924. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 09:03:44 UTC
From: n9wb
Topic: 9875 Message: 9924

It will be a few weeks, but when I modify mine, I will check the sensitivity. However I have been planning this not so much as to lower the noise floor but to reduce distortion products in the modulator and product detector. The Schottkys switch faster and distortion is reduced.

Thy have been doing this to Yaesus since the 70's with good results. I note that Ten Tec uses schottky diodes in their later rigs such as the Paragon.

Vy 73, Walt N9WB

----- Original Message -----
From: Greg
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 12:59 AM
Subject: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Just curious about all the Schottky "upgrade" talk. Has this not
been coverd many moons ago in QST etc, and it was found that
although the noise floor is "apparently" lowered, it is -in effect-
just an illusion, as the input RF signals are also lowered by the
same same amount? When a schottky upgrade was propsed and tried for
the TS820, it was later found that it really made no differnce to
the actual s/n ratio.

Perhaps the particular replacment part number has changed since the
original findings, but just thought I'd let you know to read up on
past writings about this mod. Perhaps someone can comment about what
may have changed since original testing proved a schottkey
replacemnt was not as great as it seemed, when actually checked with
test gear.

73 Greg

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hmmmmm, all of the talk about this mod for the TS-830S, makes me
> w9onder if it wouldn't be a good mod for the 820 series. Any
ideas
> on the issue?
>
> Ellen - AF9J
> The TS-820 girl
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/464 - Release Date: 10/5/06

[Non-text portions of this message have been removed]

9925. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes and TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 09:40:40 UTC
From: n9wb
Topic: 9896 Message: 9925

I played around with the RF-IF FET change mod in the late 70's. At that time I questioned whether it made any noticeable difference. However I am revisiting it and waiting on specific information. The change was to replace the 3SK35 front end and the 3SK40 IF MOS FETs with NTE 222.

If you operate SSB and want the receive of a TS-820 to sound nice, change the filter to an INRAD model 88. and then make the diode changes in the modulator and product detector. I can't personally vouch for the diode changes yet, but I have heard of good results for years and it can't hurt. I am convinced enough that I plan to try it. I can vouch for the model 88 filter. I spent $99 US for the filter and put it in a radio that cost me $45.00. It was the best investment I have made in years!

Vy 73, Walt N9WB

----- Original Message -----
From: Dave and Loraine
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 8:15 AM
Subject: Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes and TS-820

Hi Ellen and all,

I'm about to start the Inrad mods to replace the original noisy dual-gate mosfets (Q2, 3, 6 &7) on
the RF board.
All this talk of reducing noise by replacing diodes makes me wonder if I'm barking up the wrong
tree...

Maybe both mods should be done?

73 Dave F4EYK

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/464 - Release Date: 10/5/06

[Non-text portions of this message have been removed]

9926. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 09:45:02 UTC
From: n9wb
Topic: 9875 Message: 9926

Was this the diode mod or was it the RF IF FET change ?
Vy 73, Walt N9WB

----- Original Message -----
From: Greg
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 12:59 AM
Subject: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Just curious about all the Schottky "upgrade" talk. Has this not
been coverd many moons ago in QST etc, and it was found that
although the noise floor is "apparently" lowered, it is -in effect-
just an illusion, as the input RF signals are also lowered by the
same same amount? When a schottky upgrade was propsed and tried for
the TS820, it was later found that it really made no differnce to
the actual s/n ratio.

Perhaps the particular replacment part number has changed since the
original findings, but just thought I'd let you know to read up on
past writings about this mod. Perhaps someone can comment about what
may have changed since original testing proved a schottkey
replacemnt was not as great as it seemed, when actually checked with
test gear.

73 Greg

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hmmmmm, all of the talk about this mod for the TS-830S, makes me
> w9onder if it wouldn't be a good mod for the 820 series. Any
ideas
> on the issue?
>
> Ellen - AF9J
> The TS-820 girl
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/464 - Release Date: 10/5/06

[Non-text portions of this message have been removed]

9927. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 12:35:49 UTC
From: Chris HEmbree
Topic: 9875 Message: 9927

Ok this will be fun. The 830 that I have is new. My friend had it on the air for a short time and it has been in the kenwood box for a long time.
Let me know how I can pay you for them.
Thank you
Chris,,

N6WK <n6wk@...m> wrote: Hi Chris,
I find the Diodes make a nice difference in lowering the noise floor.
I will put you down for 4 diodes to do the Product detector Mod on the 830.
Welcome aboard the group.
73,
Gordon

Chris HEmbree wrote:

> I would like to be on your list.I am new to the group and picked up a
> 830s about 2 weeks ago. My first mod will be to change out C106. I
> have the new cap. Just need time to do it.How much better is the radio
> with the Schottky Diodes?
> Chris W7CTH
>
> Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote: Hi All,
> Because of the great response I received about the Schottky Diodes,
> I ordered another 100 of them. This way I will be able to match
> everyones diode order very closely. I want you all to get diodes that
> are matched as close as I can get them.
> So, I will be able to fill everyones order.
> At 11 cents each, I don't think anyone can go wrong.
> Thanks Guys.
> All orders should ship by Saturday.
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > I have received the Schottky Diodes. I am in the process of measuring
> > all of them and putting them in matching groups of 4.
> > I will notify each and everyone that wanted some tomorrow of your ship
> > dates.
> > 73,
> > Gordon
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com

> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > ALL 100 are Now Spoken For.
> > >
> > >
> > > 73,
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > > >
> > > > Thanks to everyone that emailed me off list. It looks as if 92
> of the
> > > > 100 are now spoken for. I may have to buy more. :-)
> > > >
> > > > I am sending confirmation emails to each person that requested
> them so
> > > > you'll know your on the list.
> > > >
> > > > 73,
> > > > Gordon
> > > >
> > > >
> > >
>
>
>
>
>
>
> ---------------------------------
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9928. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 13:34:32 UTC
From: Edwin
Topic: 9875 Message: 9928

Walt,
Aren't D35-D38 part of the RF speech processor and D9-D12 in the receive detector?
Edwin
N1DFB

----- Original Message -----
From: N6WK
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 12:36 AM
Subject: Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Hi Bill,
The setup is almost Identical on the 820 and the 830. Therefore, I see
no reason why the 820 would not benefit from the Product detector mod as
much as the 830. I'm sure someone will correct me if I am missing something.

On the 820 you would swap out Diodes D35,36,37 and D38. Then you would
add the 100 ohm resistor from the junction point of R 115 and R116 to Ground
Looks pretty much like the same procedure.

Gordon
N6WK

Bill Richarz wrote:

> Gordon,
>
> I was wondering if there is any kind of a mod like
> that
> for the TS-820?
>
> Maybe I should trade my TS-820S for an 830.
>
> tnx,
> de Bill, N4DH
>
> --- Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:
>
> > Wow Max,
> > Yes, I know what that feeling is like. I love it
> > when I buy myself
> > things to play with.
> > Last week I upgraded my computer monitor with a 19"
> > flat screen. I had
> > already upgraded the other 2 computers to 17" flat
> > screens.

> > Week before that I bought a new Freq Counter and
> > before that I bought
> > some other stuff along with new 300 gig hard drives
> > for all 3
> > computers. Yesterday I ordered some new Probes for
> > the scope.
> > By XMAS time, I should already have everything I
> > need. hi hi.
> > I can tell you, I am sure you will be impressed with
> > the Product
> > Detector mod.
> > I am shipping the first 100 Diodes out tomorrow. (
> > well actually the
> > first 92.) I will ship the rest on Monday.
> > I so far have orders for almost 150 of them. Luckily
> > I ordered the
> > extra 100.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>,
> > "max_ve3tmt"
> > <max_ve3tmt@...> wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>,
> > "Gordon" <n6wk@> wrote:
> > >
> > > The 830 now hears stuff that my TS-2000 can not.
> > The TS-2000 can hear
> > > someone in the noise when they are really weak,
> > but the 830 can hear
> > > WHO it is in the noise when really weak.
> > >
> > > I am impressed.
> > > 73,
> > > Gordon
> > >
> > >
> > > Geesh Gordon, I'm anxious enough waiting for my
> > diodes to arrive!
> > > I will be changing the modulator diodes as well. I
> > also have a VFO-230
> > > coming to the shack next week as well. Will feel
> > like XMAS around here
> > > next week!
> > >
> > > Max VE3TMT
> > >

> >
> >
> >
> >
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9929. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 13:33:39 UTC
From: Jim Stoneback
Topic: 9911 Message: 9929

Great call sign! And welcome to the group. I'm new myself, having recently traded for a TS-830s station. I had some problems with mine; but with the help of the group, I've got it working beautifully.

Keep them hybrids running!

73,

Jim K4AXF
In the Shenandoah Valley

----- Original Message -----
From: sm0wid
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:06 PM
Subject: [TS-520_820_530_830] New Member from Sweden.

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now it´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/2006

[Non-text portions of this message have been removed]

9930. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 13:53:37 UTC
From: Chris HEmbree
Topic: 9911 Message: 9930

I just did a upgrade to Gen class in Aug. I was looking to buy a new HF rig. Now that I made a trade to get a 830s for free. The money went into a Nikon D200 camera. I like the look of the 830S and this group Plus all the Mods you can do to make the 830 a better radio. Anyone know a good place to buy the tubes for the 830s? I have a Kenwood 520S that works if anyone would like to buy it.
Chris W7CTH
Boise ID.

Jim Stoneback <jstonebk@...> wrote: Great call sign! And welcome to the group. I'm new myself, having recently traded for a TS-830s station. I had some problems with mine; but with the help of the group, I've got it working beautifully.

Keep them hybrids running!

73,

Jim K4AXF
In the Shenandoah Valley

----- Original Message -----
From: sm0wid
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:06 PM
Subject: [TS-520_820_530_830] New Member from Sweden.

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now it´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/2006

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9932. TS-520 question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 16:18:34 UTC
From: subriaus
Topic: 9932 Message: 9932

Hi

I recently got a ts-520 in my hand and been trying to get the
rig properly tuned up.
This is what happens: Tune up according to manual
-the meter switch in ALC .. CAR at min pos.. flip to SEND and peak with
DRIVE..no ind on ALC so I increase CAR and ALC coming.
At a certain point the ALC goes wild starting to "pump" between max
and min indication. This happens at a very low CAR setting maybe 9
oclock.
I am suspecting the 12BY7a tube but I am not quite sure.
Anyone ??

Thanks
Frank

9933. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 16:53:41 UTC
From: N6WK
Topic: 9875 Message: 9933

Edwin,
You are correct,
My Mistake. Senior moment.

Gordon
N6WK

Edwin wrote:

> Walt,
> Aren't D35-D38 part of the RF speech processor and D9-D12 in the
> receive detector?
> Edwin
> N1DFB
>
> ----- Original Message -----
> From: N6WK
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, October 07, 2006 12:36 AM
> Subject: Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes
>
> Hi Bill,
> The setup is almost Identical on the 820 and the 830. Therefore, I see
> no reason why the 820 would not benefit from the Product detector mod as
> much as the 830. I'm sure someone will correct me if I am missing
> something.
>
> On the 820 you would swap out Diodes D35,36,37 and D38. Then you would
> add the 100 ohm resistor from the junction point of R 115 and R116 to
> Ground
> Looks pretty much like the same procedure.
>
> Gordon
> N6WK
>
> Bill Richarz wrote:
>
> > Gordon,
> >
> > I was wondering if there is any kind of a mod like
> > that
> > for the TS-820?
> >
> > Maybe I should trade my TS-820S for an 830.
> >

> > tnx,
> > de Bill, N4DH
> >
> > --- Gordon <n6wk@... <mailto:n6wk%40n6wk.com>
> <mailto:n6wk%40n6wk.com>> wrote:
> >
> > > Wow Max,
> > > Yes, I know what that feeling is like. I love it
> > > when I buy myself
> > > things to play with.
> > > Last week I upgraded my computer monitor with a 19"
> > > flat screen. I had
> > > already upgraded the other 2 computers to 17" flat
> > > screens.
> > > Week before that I bought a new Freq Counter and
> > > before that I bought
> > > some other stuff along with new 300 gig hard drives
> > > for all 3
> > > computers. Yesterday I ordered some new Probes for
> > > the scope.
> > > By XMAS time, I should already have everything I
> > > need. hi hi.
> > > I can tell you, I am sure you will be impressed with
> > > the Product
> > > Detector mod.
> > > I am shipping the first 100 Diodes out tomorrow. (
> > > well actually the
> > > first 92.) I will ship the rest on Monday.
> > > I so far have orders for almost 150 of them. Luckily
> > > I ordered the
> > > extra 100.
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>,
> > > "max_ve3tmt"
> > > <max_ve3tmt@...> wrote:
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > <mailto:TS-520_820_530_830%40yahoogroups.com>,
> > > "Gordon" <n6wk@> wrote:
> > > > >
> > > > > The 830 now hears stuff that my TS-2000 can not.
> > > The TS-2000 can hear
> > > > > someone in the noise when they are really weak,
> > > but the 830 can hear
> > > > > WHO it is in the noise when really weak.

> > > >
> > > > I am impressed.
> > > > 73,
> > > > Gordon
> > > >
> > > >
> > > > Geesh Gordon, I'm anxious enough waiting for my
> > > diodes to arrive!
> > > > I will be changing the modulator diodes as well. I
> > > also have a VFO-230
> > > > coming to the shack next week as well. Will feel
> > > like XMAS around here
> > > > next week!
> > > >
> > > > Max VE3TMT
> > > >
> > >
> > >
> > >
> > >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com <http://mail.yahoo.com> <http://mail.yahoo.com
> <http://mail.yahoo.com>>
> >
> >
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9934. Re: [TS-520_820_530_830] Re: TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 16:59:29 UTC
From: Jim Wilson
Topic: 9888 Message: 9934

Thanks Max and Walt
I am still a bit confused though. The service manual says that there is an adjustment on the VFO unit to set the frequency offset on transmit to 800 Hz.

At 05:06 AM 10/6/2006, you wrote:

>>If you accidentally turn it, get with somebody on CW. Have him tune
>>to yoThis is the CW offset adjustment. I learned the hard way. While
>>adjusting the xtal oscillator trimmers I put the screwdriver in this
>>hole by mistake. I don't do much CW so I'm not worried about it. If I
>>ever get a freq counter in the shack I'll fix it then. Just below that
>>pot, VR2, is the SSB carrier point adjustment. If you want to add more
>>lows to your SSB signal this is the one. Only trouble is it has the
>>opposite effect on the opposite sideband. So you have to adjust it so
>>you sound the same on both sidebands. I have rewired mine to the front
>>panel TONE control so I can adjust it on the fly. On one end it brings
>>in some nice lows for ragchewing or you can set it on the high side
>>for busting through the pileups. Most of the time I don't touch it.
>>
>>Max VE3TMT

9935. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 17:04:30 UTC
From: Gordon
Topic: 9875 Message: 9935

Hi Bill,
The setup is almost Identical on the 820 and the 830. Therefore, I see no reason why the 820 would not benefit from the Product detector mod as much as the 830.
I'm sure someone will correct me if I am missing something.

On the 820 you would swap out Diodes D9,10,11 and D12.
I errored earlier with the diodes that needed to be swapped out on the 820.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...> wrote:
>
> Gordon,
>
> I was wondering if there is any kind of a mod like
> that
> for the TS-820?
>
> Maybe I should trade my TS-820S for an 830.
>
> tnx,
> de Bill, N4DH
>
> --- Gordon <n6wk@...> wrote:
>
> > Wow Max,
> > Yes, I know what that feeling is like. I love it
> > when I buy myself
> > things to play with.
> > Last week I upgraded my computer monitor with a 19"
> > flat screen. I had
> > already upgraded the other 2 computers to 17" flat
> > screens.
> > Week before that I bought a new Freq Counter and
> > before that I bought
> > some other stuff along with new 300 gig hard drives
> > for all 3
> > computers. Yesterday I ordered some new Probes for
> > the scope.
> > By XMAS time, I should already have everything I
> > need. hi hi.
> > I can tell you, I am sure you will be impressed with

> > the Product
> > Detector mod.
> > I am shipping the first 100 Diodes out tomorrow. (
> > well actually the
> > first 92.) I will ship the rest on Monday.
> > I so far have orders for almost 150 of them. Luckily
> > I ordered the
> > extra 100.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
> > "max_ve3tmt"
> > <max_ve3tmt@> wrote:
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> > "Gordon" <n6wk@> wrote:
> > >
> > > The 830 now hears stuff that my TS-2000 can not.
> > The TS-2000 can hear
> > > someone in the noise when they are really weak,
> > but the 830 can hear
> > > WHO it is in the noise when really weak.
> > >
> > > I am impressed.
> > > 73,
> > > Gordon
> > >
> > >
> > > Geesh Gordon, I'm anxious enough waiting for my
> > diodes to arrive!
> > > I will be changing the modulator diodes as well. I
> > also have a VFO-230
> > > coming to the shack next week as well. Will feel
> > like XMAS around here
> > > next week!
> > >
> > > Max VE3TMT
> > >
> >
> >
> >
> >
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

9936. Re: TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 17:08:50 UTC
From: Gordon
Topic: 9888 Message: 9936

Jim,
What page in the manual are you reading that?
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, Jim Wilson <w5mhl@...> wrote:
>
> Thanks Max and Walt
> I am still a bit confused though. The service manual says that there
> is an adjustment on the VFO unit to set the frequency offset on
> transmit to 800 Hz.
>
> At 05:06 AM 10/6/2006, you wrote:
>
> >>If you accidentally turn it, get with somebody on CW. Have him tune
> >>to yoThis is the CW offset adjustment. I learned the hard way. While
> >>adjusting the xtal oscillator trimmers I put the screwdriver in this
> >>hole by mistake. I don't do much CW so I'm not worried about it. If I
> >>ever get a freq counter in the shack I'll fix it then. Just below that
> >>pot, VR2, is the SSB carrier point adjustment. If you want to add more
> >>lows to your SSB signal this is the one. Only trouble is it has the
> >>opposite effect on the opposite sideband. So you have to adjust it so
> >>you sound the same on both sidebands. I have rewired mine to the front
> >>panel TONE control so I can adjust it on the fly. On one end it brings
> >>in some nice lows for ragchewing or you can set it on the high side
> >>for busting through the pileups. Most of the time I don't touch it.
> >>
> >>Max VE3TMT
>

9937. Diode replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 17:10:42 UTC
From: w5mhl
Topic: 9937 Message: 9937

I have taken Gordon up on his kind offer to supply replacement diodes for the TS-830. However I wonder if they really improve the sensitivity, or simply lower the gain. I have never had a situation at HF where the atmospheric noise with antenna attached did not overide the inherent receiver noise. Also in a well designed receiver with proper gain distribution, the ultimate S.N. ratio will be determined by the front end. This assumes that the noise floor being discussed is the level achieved with no antenna attached.

When I receive the diodes, I'll try to make an actual comparison of sensitivity, before and after.

Am I missing something here? Comments?

Jim, w5mhl

9938. Re: [TS-520_820_530_830] Re: TS-830 cw adjustment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 17:28:03 UTC
From: Jim Wilson
Topic: 9888 Message: 9938

Item 7 on page 34 of the service manual calls for the adjustment of
L4 on the VFO to set the CW shift to 800+-50 Hz.
Page 42 shows the location of L4 on the VFO and references "CWT 800 HZ up"

Jim
At 10:08 AM 10/7/2006, you wrote:

>Jim,
>What page in the manual are you reading that?
>73,
>Gordon
>N6WK

9939. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes - Improvement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 17:55:09 UTC
From: Rick May
Topic: 9875 Message: 9939

Hi Greg,

I did the first product detector mod on my 830S some months ago. I was amazed at the improvement. I could not listen to the 830S for more than few minutes with headphones because of the high static and white noise level... My Icom 765 has a much quieter front end but still excellent sensitivity. Now, when I do the A/B test with a coax switch, I can't tell them apart. Now I don't know if my 830S had a noisier receiver than most but I posted a spectrum scan plot of my before and after receiver noise. At least for me, it iwas a dramatic improvement for about a $4 investment....I think Gordon was similarly impressed.

73' Rick KC0HH

Greg <va3vfo@...> wrote: Just curious about all the Schottky "upgrade" talk. Has this not been coverd many moons ago in QST etc, and it was found that
although the noise floor is "apparently" lowered, it is -in effect-
just an illusion, as the input RF signals are also lowered by the
same same amount? When a schottky upgrade was propsed and tried for
the TS820, it was later found that it really made no differnce to
the actual s/n ratio.

Perhaps the particular replacment part number has changed since the
original findings, but just thought I'd let you know to read up on
past writings about this mod. Perhaps someone can comment about what
may have changed since original testing proved a schottkey
replacemnt was not as great as it seemed, when actually checked with
test gear.

73 Greg

-

73' Rick KC0HH
Lamar, Colorado

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

9940. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 18:19:40 UTC
From: Ellen R
Topic: 9875 Message: 9940

Hi Walt, could you let me know what the diode #s are on the board (I'm just feeling lazy, and don't feel like poring over the schematic, LOL)? I have mixed feelings about this. I'd love to improve my baby's performance, but by the same token, as a classic/now becoming collectable rig, I'm leery about messing with its originality.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> 820 Ellen:
>
> I understand it helps most rigs that had germanium diodes in ring modulators
> and detectors. The Yaesu group has been doing this to FT-101s for years. I
> am going to try this in my 820S when I get time. I already have the diodes.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 06, 2006 7:31 AM
> Subject: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes
>
>
> Hmmmmm, all of the talk about this mod for the TS-830S, makes me
> w9onder if it wouldn't be a good mod for the 820 series. Any ideas
> on the issue?
>
> Ellen - AF9J
> The TS-820 girl
>

9941. Re: New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 18:51:50 UTC
From: Ellen R
Topic: 9911 Message: 9941

I've been down the tube road myself, with my TS-820 in recent months. First and foremost, DON'T BUY THE CHINESE 6146Bs. They are made nowhere near as well as a set of NOS GEs or Phillips/Sylvanias. I made the mistake of putting a set of Chinese 6146Ws in my TS-820 a few months back, and when I turned on the cathode heaters, the tubes flashed over. The result - I had to replace fried resistors on the High Voltage, and Finals boards. The Chinese 6146Ws don't take too well to the higher voltages, that Kenwood hybrids run.

With that thought in mind here are your best tube choices:
1. J2000 - this a Japanese variant of the 6146B, and is the original tube that was installed in these radios. With a set of J2000s, a Kenwood hybrid can do 120-125W out (about 105-110 out on 10m). Unfortunatly, they are virtually impossible to find nowadays. If you can find an NOS set, consider yourself lucky. So for finals replacements, you'll have to turn to the 6146 family of tubes.

2. 6146B - this is tube choice number 2 for the Kenwood hybrids. With a set of these in, you can expect anywhere from 105 to 120W output. Unfortunatley (although not as much as with the J2000), 6146Bs are getting scarce. Back in the mid 80s, when I was a new General going to the Univ. of WI for an engineering degree, I was able to buy a set of 6146Bs from a local electronics surplus house for about $40. Radio Shack was able to get them for me back then, for about $25 a piece. Nowadays you either have to get them on e-bay or at a hamfest. Also, a few months back Nebraska Surplus was selling them for about $40-$50 a piece.

3. 6146W - This is what most of us (and other hams with rigs that have 6146 finals in them) use nowadays. This is a militarized variant of the 6146B. With a set of these installed in a Kenwood hybrid, you should be able to get about 105-120W out of it. These are still readily available, if you know where to look. Antique Electronics, and Nebraska Surplus, and RF Parts are three suppliers that come to mind for these. I bought the JAN Phillips/Sylvania 6146Ws for my 820. They cost a bit more than some of the other available 6146Ws (but were actually close to price for the Chinese ripoffs I bought from a major ham retailer), but they've worked great form me, and I'm glad I bought them. I get about 105-110W out of Old Bessie with them in.

OK, that does it for the finals. For the 12BY7A driver, there is no one preferred brand of tube, other than to say that some 12BY7As (irregardless of brand), may work better with your Kenwood than others. It might end up being a trial and error thing with 12BY7As.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> I just did a upgrade to Gen class in Aug. I was looking to buy a
new HF rig. Now that I made a trade to get a 830s for free. The money
went into a Nikon D200 camera. I like the look of the 830S and this
group Plus all the Mods you can do to make the 830 a better radio.
Anyone know a good place to buy the tubes for the 830s? I have a
Kenwood 520S that works if anyone would like to buy it.
> Chris W7CTH
> Boise ID.
>
> Jim Stoneback <jstonebk@...>
wrote: Great call sign! And welcome
to the group. I'm new myself, having recently traded for a TS-830s
station. I had some problems with mine; but with the help of the
group, I've got it working beautifully.
>
> Keep them hybrids running!
>
> 73,
>
> Jim K4AXF
> In the Shenandoah Valley
>
> ----- Original Message -----
> From: sm0wid
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 06, 2006 7:06 PM
> Subject: [TS-520_820_530_830] New Member from Sweden.
>
> Hi to All..
>
> I´m a Swedish amateur who got a TS820 as a birthday present in
July
> from a friend. This "rig" has been standing on a shelf at a
> car company for at least 10 years. I have checked out "The
Groups"
> message and found a couple of answers who was related to some Rx-
> problems and now the transceiver is tuned up and working
properly.
>
> Thanks for all the tips and hints to the members of the group.
>
> I´ve only had my license for three years so now it´s time for
> the "lower band", normally working on vhf and uhf in Stockholm.
>
> Check out my last name according to the callsign, been waiting a

long
> time for that "one".
>
> Good DXing
>
> de / SMØWID / Locator JO99ag(36) /
>
> Anders Wid
>
> --
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date:
10/6/2006
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

9942. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 19:01:05 UTC
From: John Harp
Topic: 9911 Message: 9942

Greetings and welcome to the group. My name is John the call is KA3DPW.
I think you'll find the experience with the radio you now have to be an interesting one. Having this group to inquire to is a valuable tool to keeping it going.

I've been here for a few months now, and I see things going on day to day here. One day it's atransformer, next it's a modand maybe a band switch needs cleaning on someone else's radio. Right now there's interest in a mod for swapping doides to see if there is a quieter noise floor and perhaps better performance.

I watch, listen and learn. There's some well experienced people here and even some people who work on these as shop repair. Some you see in here day to day but still others only occasionally. There is a good sized group here along with a nice archive of mods and tests and repairs and such. Within a reasonable amount of time when you call for something to the group, a response comes back. Some are more knowledgeable at a 520 or an 830 or an 820 others are more ve4rsatile to several models and yet some to all Kenwood tube Hybrids.

So welcome and do tell what you got for the radio. I believer you said an 830 am I correct? Did it have a microphone or straight key? was there any accessories, like the matching speaker or a remoter VFO or a transverter?

Back to you. DE KA3PW K

sm0wid <sm0wid@...> wrote:
Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now it´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9943. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 19:20:37 UTC
From: Chris HEmbree
Topic: 9911 Message: 9943

I just have a 839s came with a MC-50. I went out and replaced it with a Heil Goldline GM-5
Chris

John Harp <ka3dpw@...> wrote: Greetings and welcome to the group. My name is John the call is KA3DPW.
I think you'll find the experience with the radio you now have to be an interesting one. Having this group to inquire to is a valuable tool to keeping it going.

I've been here for a few months now, and I see things going on day to day here. One day it's atransformer, next it's a modand maybe a band switch needs cleaning on someone else's radio. Right now there's interest in a mod for swapping doides to see if there is a quieter noise floor and perhaps better performance.

I watch, listen and learn. There's some well experienced people here and even some people who work on these as shop repair. Some you see in here day to day but still others only occasionally. There is a good sized group here along with a nice archive of mods and tests and repairs and such. Within a reasonable amount of time when you call for something to the group, a response comes back. Some are more knowledgeable at a 520 or an 830 or an 820 others are more ve4rsatile to several models and yet some to all Kenwood tube Hybrids.

So welcome and do tell what you got for the radio. I believer you said an 830 am I correct? Did it have a microphone or straight key? was there any accessories, like the matching speaker or a remoter VFO or a transverter?

Back to you. DE KA3PW K

sm0wid <sm0wid@...> wrote:
Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now ít´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9944. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 19:40:47 UTC
From: max_ve3tmt
Topic: 9875 Message: 9944

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Walt, could you let me know what the diode #s are on the board
> (I'm just feeling lazy, and don't feel like poring over the
> schematic, LOL)? I have mixed feelings about this. I'd love to
> improve my baby's performance, but by the same token, as a
> classic/now becoming collectable rig, I'm leery about messing with
> its originality.
>
> Ellen - AF9J

Ellen,

The detector diodes are either D20-24 or D19-23 can't remember. The
modulator diodes are D28-31.

Max

9945. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 19:39:52 UTC
From: Chris HEmbree
Topic: 9911 Message: 9945

opps 830s

Chris HEmbree <w7cth@...> wrote: I just have a 839s came with a MC-50. I went out and replaced it with a Heil Goldline GM-5
Chris

John Harp <ka3dpw@...> wrote: Greetings and welcome to the group. My name is John the call is KA3DPW.
I think you'll find the experience with the radio you now have to be an interesting one. Having this group to inquire to is a valuable tool to keeping it going.

I've been here for a few months now, and I see things going on day to day here. One day it's atransformer, next it's a modand maybe a band switch needs cleaning on someone else's radio. Right now there's interest in a mod for swapping doides to see if there is a quieter noise floor and perhaps better performance.

I watch, listen and learn. There's some well experienced people here and even some people who work on these as shop repair. Some you see in here day to day but still others only occasionally. There is a good sized group here along with a nice archive of mods and tests and repairs and such. Within a reasonable amount of time when you call for something to the group, a response comes back. Some are more knowledgeable at a 520 or an 830 or an 820 others are more ve4rsatile to several models and yet some to all Kenwood tube Hybrids.

So welcome and do tell what you got for the radio. I believer you said an 830 am I correct? Did it have a microphone or straight key? was there any accessories, like the matching speaker or a remoter VFO or a transverter?

Back to you. DE KA3PW K

sm0wid <sm0wid@yahoo.com> wrote:
Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now ít´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

9946. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 20:03:18 UTC
From: Dennis Windle
Topic: 9875 Message: 9946

On the TS-820 the detector diodes are actually D9, 10,11 & 12.

D.Windle

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 3:40 PM
Subject: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Walt, could you let me know what the diode #s are on the board
> (I'm just feeling lazy, and don't feel like poring over the
> schematic, LOL)? I have mixed feelings about this. I'd love to
> improve my baby's performance, but by the same token, as a
> classic/now becoming collectable rig, I'm leery about messing with
> its originality.
>
> Ellen - AF9J

Ellen,

The detector diodes are either D20-24 or D19-23 can't remember. The
modulator diodes are D28-31.

Max

[Non-text portions of this message have been removed]

9947. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 20:41:46 UTC
From: max_ve3tmt
Topic: 9875 Message: 9947

Was Ellen asking about the 820 or 830?

Sorry if I erred.

Max VE3TMT

9948. 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 21:43:52 UTC
From: nasa820
Topic: 9948 Message: 9948

I've been running my 830S for the last couple of years, and really like this xmtr. When my transmit power went to zero recently, I found the output tubes had gone south. Not a problem; I have three sets of matched replacements. I installed a new set of GE 6146Bs. The tubes lit up, and I was able to tune up readily into a dummy load. Now, on to the neutralization process. Or was it?

The Operating Manual says "adjust TC1, reached through the adjustment hole in the top of the final section.)" No hole in the top of the cage (assume that's what they mean by the final section.) Two holes in the side - neither appear to go to anything like what I'm looking for. Service Manual shows TC1 in the middle of the PLL Unit - bottom of the xcvr. Yup, found that small adjustable cap. Just adjacent to T7-T12. Is that the puppy I'm supposed to be cranking on?

I've read all the correspondence on this site as well as all the help files, etc etc. I can't seem to correlate the "I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover." comments with what I'm seeing. What hole? What cover? If I have the right TC1, no access problem at all. Hmmmmm.....

Sorry if this is obvious to everyone else; sometimes the "little grey cells are not working."

Bob
W7DDD

9949. Re: [TS-520_820_530_830] 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 23:51:20 UTC
From: N6WK
Topic: 9948 Message: 9949

Hi Bob, On the TS-830, The adjustment TC1 is on the Bottom side of the Final Cage. You have to access it from the bottom side. You must remiove the top and bottom covers but do NOT take the final cover off.
Look on page 31 of your user Manual. It shows where TC1 is located in the Top Picture. (the Bottom View)

73,
Gordon

nasa820 wrote:

> I've been running my 830S for the last couple of years, and really
> like this xmtr. When my transmit power went to zero recently, I found
> the output tubes had gone south. Not a problem; I have three sets of
> matched replacements. I installed a new set of GE 6146Bs. The tubes
> lit up, and I was able to tune up readily into a dummy load. Now, on
> to the neutralization process. Or was it?
>
> The Operating Manual says "adjust TC1, reached through the adjustment
> hole in the top of the final section.)" No hole in the top of the
> cage (assume that's what they mean by the final section.) Two holes
> in the side - neither appear to go to anything like what I'm looking
> for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> T7-T12. Is that the puppy I'm supposed to be cranking on?
>
> I've read all the correspondence on this site as well as all the help
> files, etc etc. I can't seem to correlate the "I shrink 2 pieces of
> shrink tubing, (double thickness) on the screwdriver shaft so it will
> not touch the edges of the hole in the cover." comments with what I'm
> seeing. What hole? What cover? If I have the right TC1, no access
> problem at all. Hmmmmm.....
>
> Sorry if this is obvious to everyone else; sometimes the "little grey
> cells are not working."
>
> Bob
> W7DDD
>
>

[Non-text portions of this message have been removed]

9950. Re: [TS-520_820_530_830] 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-07 23:39:13 UTC
From: Troy, W6HV
Topic: 9948 Message: 9950

TC1 is found on the bottom side of the final unit. It's near the front, left ft corner (viewed with the rig upside down and the front facing away from you). Look at page 10 of the service manual, the bottom view. On the upper right side of the photo you should see a caption "TC1 Neutralization".
73,
Troy, W6HV
----- Original Message -----
From: nasa820<mailto:nasa820@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, October 07, 2006 2:43 PM
Subject: [TS-520_820_530_830] 830 Neutralization

I've been running my 830S for the last couple of years, and really like this xmtr. When my transmit power went to zero recently, I found the output tubes had gone south. Not a problem; I have three sets of matched replacements. I installed a new set of GE 6146Bs. The tubes lit up, and I was able to tune up readily into a dummy load. Now, on to the neutralization process. Or was it?

The Operating Manual says "adjust TC1, reached through the adjustment hole in the top of the final section.)" No hole in the top of the cage (assume that's what they mean by the final section.) Two holes in the side - neither appear to go to anything like what I'm looking for. Service Manual shows TC1 in the middle of the PLL Unit - bottom of the xcvr. Yup, found that small adjustable cap. Just adjacent to T7-T12. Is that the puppy I'm supposed to be cranking on?

I've read all the correspondence on this site as well as all the help files, etc etc. I can't seem to correlate the "I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover." comments with what I'm seeing. What hole? What cover? If I have the right TC1, no access problem at all. Hmmmmm.....

Sorry if this is obvious to everyone else; sometimes the "little grey cells are not working."

Bob
W7DDD

Yahoo! Groups Links

[Non-text portions of this message have been removed]

9951. TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 00:35:31 UTC
From: David Rust
Topic: 9951 Message: 9951

Here is where I am with the TS830s I got Friday.

HV reads about 550 volts, shows its drawing 225 to 250 mils IP when its loaded up, however, the power output on a Drake W4 shows 35 watts on all bands. Slightly less on 15 meters, didn't go on up in frequency.

I tightened all the board to chassis screws, some of them were loose, but not real loose. I changed driver tubes, I don't think there was a new one in it, but that didn't change anything. To drive the ALC to the top of the ALC scale when speaking into the mike I had to run the Mike gain up to 8 on the scale. It is loaded up to 225 mils in the cw position, flip to transmit in USB or LSB and it will only peak at 35 to 40 watts on a Drake W4 wattmeter, same in the CW position and keyed. 35 watts out. Idle current is set to 60 mils, HV reads just slightly over 500 volts in the transmit position. My 530s reads up around 900 volts. So....now what.

Dave W0DLR

[Non-text portions of this message have been removed]

9952. Re: [TS-520_820_530_830] TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 01:07:46 UTC
From: David Rust
Topic: 9951 Message: 9952

One more thing about the 830s. The HV reads about 500 volts with the filament voltage on and in any mode position. With the filament switch off it will read just slightly over 800 volts HV if I momentarily switch it in transmit mode.
W0DLR

[Non-text portions of this message have been removed]

9953. Re: [TS-520_820_530_830] TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 01:32:58 UTC
From: N6WK
Topic: 9951 Message: 9953

Dave,
500 Volts is way Low. Either something is really pulling the voltage down, or there is a problem in the HV circuit. I would check all the diodes and compontents on the Rectifier board to start with. I'm suspecting a problem there.
73,
gordon

David Rust wrote:

> One more thing about the 830s. The HV reads about 500 volts with the
> filament voltage on and in any mode position. With the filament switch
> off it will read just slightly over 800 volts HV if I momentarily
> switch it in transmit mode.
> W0DLR
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

9954. Re: [TS-520_820_530_830] TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 02:41:18 UTC
From: Gary & Carrie Meyer
Topic: 9951 Message: 9954

Change the caps in the voltage doubler ckt.

KC0NPJ

[Non-text portions of this message have been removed]

9955. Re: [TS-520_820_530_830] TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 02:00:29 UTC
From: David Rust
Topic: 9951 Message: 9955

Gary, I take it that is the (2) 160V 33uf caps on the recifier board?
Thanks for the reply
Dave W0DLR

[Non-text portions of this message have been removed]

9956. Re: TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 02:40:27 UTC
From: Clif
Topic: 9951 Message: 9956

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Gary, I take it that is the (2) 160V 33uf caps on the recifier board?
> Thanks for the reply
> Dave W0DLR

Nope it's the two big black ones mounted on the chassis in the middle
of the radio (right behind the display unit). 100UF @ 500v. One has
opened up and not doubling the HV.

Clif

9957. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 03:02:41 UTC
From: Ellen R
Topic: 9875 Message: 9957

The TS-820.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> Was Ellen asking about the 820 or 830?
>
> Sorry if I erred.
>
> Max VE3TMT
>

9958. Re: 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 03:01:39 UTC
From: Ellen R
Topic: 9875 Message: 9958

Thanks for the info Max. It'll save me time. :)

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Walt, could you let me know what the diode #s are on the board
> > (I'm just feeling lazy, and don't feel like poring over the
> > schematic, LOL)? I have mixed feelings about this. I'd love to
> > improve my baby's performance, but by the same token, as a
> > classic/now becoming collectable rig, I'm leery about messing
with
> > its originality.
> >
> > Ellen - AF9J
>
>
> Ellen,
>
> The detector diodes are either D20-24 or D19-23 can't remember. The
> modulator diodes are D28-31.
>
> Max
>

9959. Re: [TS-520_820_530_830] Diode replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 08:50:52 UTC
From: n9wb
Topic: 9937 Message: 9959

Commenting on this further,

Diodes make noise. While not more than atmospheric noise, noise is additive. Diode noise is one of the many hisses you hear in a receiver when it is attached to a dummy load. Since Schottkys are quieter, the additive noise should be lower. I have not done this mod yet, but what Gordon and Max say makes sense. What they will surely do is create less distortion in the modulated and demodulated signal. This is because the Schottkys snap faster.

By snap, I mean that diodes conduct one way but not the other. In OVERSIMPLIFIED theory, if a positive voltage is applied to the anode of a germanium,silicon, or schottky diode, (this does not apply to zeners) current (electrons) will flow from the - cathode to the positive anode. As the positive voltage is reduced to zero and then becomes a negative voltage, the current flow stops when the electron flow reverses.

This action is like a check valve in plumbing. It allows water to flow one direction but when it tries to flow the other, it shuts off.

Now, you note that I said OVERSIMPLIFIED.

That is because the cut off point does not occur at exactly +/- 0 volts. With a silicon diode, when the anode is slightly positive, current flow does not occur until the positive voltage reaches .6 to .7 volts. With germanium diodes this is around .2 volts, and with Schottky diodes, this is lower than that closest to zero of any of them.

Another factor is snap or switching speed. When a rapidly changing signal such as an audio or RF signal is applied, when the conduction point is reached, cut on, off does not happen immediately. This conduction initializes over a time period, very short, never the less, a time period. This snap or switching rate is different from diode to diode, but Schottkys generally have much faster switching rates than other diodes except for some microwave diodes. The faster and lower snap voltage causes less dead spots as the audio or RF wave changes from + to - and thus creates less distortion. This would be akin to having less cross-over distortion in a push pull amplifier.

How much improvement you will notice depends on how critical your ear is. If you enjoy the sound of a cell phone do not worry about any of this. Bit even if you are hard of hearing, particularly from high frequency loss, cleaner lower distortion audio will be beneficial to you.

Since Max and Gordon are hearing weak signals better, something is happening. Whether it is a better s/n ratio or less intermodulation products between the noises complicating the signal, the result seems to be beneficial.

And one benefit very well could be that with lower distortion on receive, the complex noise is generating less intermodulation products.

Vy 73, Walt N9WB

----- Original Message -----
From: w5mhl
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 12:10 PM
Subject: [TS-520_820_530_830] Diode replacement

I have taken Gordon up on his kind offer to supply replacement diodes
for the TS-830. However I wonder if they really improve the
sensitivity, or simply lower the gain. I have never had a situation
at HF where the atmospheric noise with antenna attached did not
overide the inherent receiver noise. Also in a well designed receiver
with proper gain distribution, the ultimate S.N. ratio will be
determined by the front end. This assumes that the noise floor being
discussed is the level achieved with no antenna attached.

When I receive the diodes, I'll try to make an actual comparison of
sensitivity, before and after.

Am I missing something here? Comments?

Jim, w5mhl

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/06

[Non-text portions of this message have been removed]

9960. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 08:57:32 UTC
From: n9wb
Topic: 9911 Message: 9960

Well Chris, tell us, how do they compare in performance ?
Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To

Chris HEmbree <w7cth@...> wrote: I just have a 830s came with a MC-50.
I went out and replaced it with a Heil Goldline GM-5
Chris

9961. Diodes in TS-820, numbers, 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 09:35:15 UTC
From: n9wb
Topic: 9961 Message: 9961

Diodes to change to 1N5711 Schottky diodes in the TS-820 and TS-820S.

Main modulator and product detector:

D-9, D-10, D-11, and D-12 are the diodes to change for the product detector.

D-26, D-27, D-28, and D-29 are the diodes for the main balanced modulator.
.....
.....
If you use the speech processor in the TS-820 very often, you may eventually wish to consider changing the processor diodes also. It can't do anything but reduce distortion in the processor a bit. I am not sure if I will or not because I soon will be using another external processor. But I am providing the information for your use.

In the TS-820, TS-820S RF speech processor:

D-31, D-32, D-33, and D-34 are the modulator diodes at the input of the RF speech processor.

D-35, D-36, D-37, and D-38 are the product detector diodes at the RF speech processor output.

Ellen:

While I hate to see rigs butchered up with a lot of modifications, I would not worry about changing diodes one for one in the TS-820 for reasons of originality.

I certainly would be concerned about radical modifications that involved a lot of changes and foil modifications such as, WARC mods, QRO mods (yuck!), drilling holes, particularly in the front panel, and things like that. But changing diodes is like using improved spark plugs that fit exactly without modification in a classic car.

I also would not be concerned about changing a filter to an INRAD if it was an exact fit.

I am not sure that I am sold on the FET changes either, but I am looking into it.

My opinion,

Walt N9WB

PS: Thanks Gordon for providing me with clear documentation to look these up on. Walt

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Walt, could you let me know what the diode #s are on the board
> (I'm just feeling lazy, and don't feel like poring over the
> schematic, LOL)? I have mixed feelings about this. I'd love to
> improve my baby's performance, but by the same token, as a
> classic/now becoming collectable rig, I'm leery about messing with
> its originality.
>
> Ellen - AF9J

9962. Re: [TS-520_820_530_830] 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 09:48:27 UTC
From: n9wb
Topic: 9948 Message: 9962

Bob:

We like to keep this as confusing as possible just so we can keep you on your toes.Hi (not really, but I know sometimes it must seem that way to you all. I'm sorry for that but we try.)

On the TS-830 there is no hole in the top of the final section. TC-1 is the capacitor that you need access to. It is pictured on the top diagram on page 31 of your instruction manual for the TS-830.

The TS-820 has a hole in the top for access. The cover must be on to do this. It makes this process miserable. Be thankful that you are neutralizing a TS-830.

Vy 73, Walt N9WB

----- Original Message -----
From: nasa820
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 4:43 PM
Subject: [TS-520_820_530_830] 830 Neutralization

I've been running my 830S for the last couple of years, and really like this xmtr. When my transmit power went to zero recently, I found the output tubes had gone south. Not a problem; I have three sets of matched replacements. I installed a new set of GE 6146Bs. The tubes lit up, and I was able to tune up readily into a dummy load. Now, on to the neutralization process. Or was it?

The Operating Manual says "adjust TC1, reached through the adjustment hole in the top of the final section.)" No hole in the top of the cage (assume that's what they mean by the final section.) Two holes in the side - neither appear to go to anything like what I'm looking for. Service Manual shows TC1 in the middle of the PLL Unit - bottom of the xcvr. Yup, found that small adjustable cap. Just adjacent to T7-T12. Is that the puppy I'm supposed to be cranking on?

I've read all the correspondence on this site as well as all the help files, etc etc. I can't seem to correlate the "I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover." comments with what I'm seeing. What hole? What cover? If I have the right TC1, no access problem at all. Hmmmmm.....

Sorry if this is obvious to everyone else; sometimes the "little grey cells are not working."

Bob
W7DDD

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/06

[Non-text portions of this message have been removed]

9963. Re: [TS-520_820_530_830] TS-830s project.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 10:05:51 UTC
From: n9wb
Topic: 9951 Message: 9963

Probably you either have an open High voltage rectifier diode, or bad high voltage filter capacitors. However, if you have a volt meter that will measure 900 volts safely, measure the voltage at the point labeled HV on the rectifier unit. If you read around 800 V there, disregard the above and we will have you check some other things.

If you cannot safely measure 900 volts, make a voltage divider to use a lower voltage meter. You will need (4) 1 meg ohm 1 watt resistors. Wire these in series and connect one end of the series string to the point labeled HV on the rectifier unit. Connect the other end of the series string to chassis ground. Connect the meter from ground to the first resistor above ground. There will be three more resistors between this point and the HV point. A correct reading for 800 volts would be 200 V. A correct reading for 500 v would be 125 volts. In other words, the meter reading times 4 will be the voltage at the HV point.

Be careful!

Very low line voltage when transmitting where the rig is plugged in will also do this. It would be very low. Around 80 volts. Be sure that your 220/120 volt switch is set properly.

Vy 73, Walt N9WB

----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 7:35 PM
Subject: [TS-520_820_530_830] TS-830s project.

Here is where I am with the TS830s I got Friday.

HV reads about 550 volts, shows its drawing 225 to 250 mils IP when its loaded up, however, the power output on a Drake W4 shows 35 watts on all bands. Slightly less on 15 meters, didn't go on up in frequency.

I tightened all the board to chassis screws, some of them were loose, but not real loose. I changed driver tubes, I don't think there was a new one in it, but that didn't change anything. To drive the ALC to the top of the ALC scale when speaking into the mike I had to run the Mike gain up to 8 on the scale. It is loaded up to 225 mils in the cw position, flip to transmit in USB or LSB and it will only peak at 35 to 40 watts on a Drake W4 wattmeter, same in the CW position and keyed. 35 watts out. Idle current is set to 60 mils, HV reads just slightly over 500 volts in the transmit position. My 530s reads up around 900 volts. So....now what.

Dave W0DLR

9964. Re: [TS-520_820_530_830] TS-830s project. new info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 10:27:08 UTC
From: n9wb
Topic: 9964 Message: 9964

Check these things before following my earlier post.

I just read this post after I posted.
What I am thinking is instead of the High voltage dropping, the AC voltage into the transformer is dropping with load. If you are running extension cords, outlet strips or anything like that, be suspicious of them. Try eliminating them.

I would check the line voltage where the rig is connected when meter is showing 500 V.
Do the dial lights dim when you read 500 V ?
Also, as dumb as this sounds, if the dial lights dim, change the fuse. Be sure that the new one is the correct value.

If none of the above help,
On your transformer on the bottom, there are several taps labeled 0 Find the one associated with the one labeled 14. Measure the AC voltage between the one labeled 14 and it's associated 0. when the HV is reading low. It should read around 14 ACV.

Also measure AC volts between one of the taps labeled 120 and it's associated 0 tap when the plate voltage is low. If this voltage is less than 105 V suspect a bad outlet, or a bad on off switch in the rig.

Be very suspicious that somehow, low voltage is getting to the rig.
Resistance in series with the mains AC will cause this symptom. Resistance can be caused by a faulty plug, outlet, extension cord or power strip.

Vy 73, Walt N9WB

----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 8:07 PM
Subject: Re: [TS-520_820_530_830] TS-830s project.

One more thing about the 830s. The HV reads about 500 volts with the filament voltage on and in any mode position. With the filament switch off it will read just slightly over 800 volts HV if I momentarily switch it in transmit mode.
W0DLR

9965. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 12:18:29 UTC
From: Chris HEmbree
Topic: 9911 Message: 9965

I have not had time to do this yet, I have been so busy at work this past week that the rig has been off all week.I will post the performance when I can.But first I am going to change out C106.

Chris.

n9wb <n9wb@...> wrote: Well Chris, tell us, how do they compare in performance ?
Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To

Chris HEmbree <w7cth@...> wrote: I just have a 830s came with a MC-50.
I went out and replaced it with a Heil Goldline GM-5
Chris

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

9966. new tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 12:45:00 UTC
From: w7cth
Topic: 9966 Message: 9966

Are new tubes plug and play? or do you need to anything after install.
I am gong to order 6146W's and a 12BY7A this week from Nebraska Surplus.

Chris W7CTH

9967. Re: [TS-520_820_530_830] TS-830s project. new info

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 12:53:11 UTC
From: David Rust
Topic: 9964 Message: 9967

Walt,
Resistance can be caused by a faulty plug, outlet, extension cord or power strip.

It does the same thing on two different plug-ins in different parts of the house. I don't suspect the input voltage at this point.
Dave

[Non-text portions of this message have been removed]

9968. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 15:35:41 UTC
From: John Harp
Topic: 9911 Message: 9968

That's ok. I knew what you meant. I have two 830's. One of which needs repair and one of which I use regularly. Others of this group have the goldline as well. I use the MC-50.

Remember that if you need to buy a microphne for the 830 get a high impedance mic. There are some different older models weork well with this mic too. For examples the Astatic D-104 works very well as does the Shure 444. Other members here in the group may be able to recommend more microphones.

Enjoy, as you have obtained a good radio that has the potential of may good QSO's and when properly set will produce a signal that comes back with good reports all the time. I know because it does for me all the time.

See you on the air.

Chris HEmbree <w7cth@...> wrote:
opps 830s

Chris HEmbree <w7cth@...> wrote: I just have a 839s came with a MC-50. I went out and replaced it with a Heil Goldline GM-5
Chris

John Harp <ka3dpw@...> wrote: Greetings and welcome to the group. My name is John the call is KA3DPW.
I think you'll find the experience with the radio you now have to be an interesting one. Having this group to inquire to is a valuable tool to keeping it going.

I've been here for a few months now, and I see things going on day to day here. One day it's atransformer, next it's a modand maybe a band switch needs cleaning on someone else's radio. Right now there's interest in a mod for swapping doides to see if there is a quieter noise floor and perhaps better performance.

I watch, listen and learn. There's some well experienced people here and even some people who work on these as shop repair. Some you see in here day to day but still others only occasionally. There is a good sized group here along with a nice archive of mods and tests and repairs and such. Within a reasonable amount of time when you call for something to the group, a response comes back. Some are more knowledgeable at a 520 or an 830 or an 820 others are more ve4rsatile to several models and yet some to all Kenwood tube Hybrids.

So welcome and do tell what you got for the radio. I believer you said an 830 am I correct? Did it have a microphone or straight key? was there any accessories, like the matching speaker or a remoter VFO or a transverter?

Back to you. DE KA3PW K

sm0wid <sm0wid@...> wrote:
Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now it´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1¢/min.

[Non-text portions of this message have been removed]

9969. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 15:57:29 UTC
From: EA4BL
Topic: 9911 Message: 9969

Good investment Chris.
What a great camera!
Ohhhh... If I only could...
73, Fernando, EA4BL
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 3:53 PM
Subject: Re: [TS-520_820_530_830] New Member from Sweden.

I just did a upgrade to Gen class in Aug. I was looking to buy a new HF rig. Now that I made a trade to get a 830s for free. The money went into a Nikon D200 camera. I like the look of the 830S and this group Plus all the Mods you can do to make the 830 a better radio. Anyone know a good place to buy the tubes for the 830s? I have a Kenwood 520S that works if anyone would like to buy it.
Chris W7CTH
Boise ID.

Jim Stoneback <jstonebk@...t> wrote: Great call sign! And welcome to the group. I'm new myself, having recently traded for a TS-830s station. I had some problems with mine; but with the help of the group, I've got it working beautifully.

Keep them hybrids running!

73,

Jim K4AXF
In the Shenandoah Valley

----- Original Message -----
From: sm0wid
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:06 PM
Subject: [TS-520_820_530_830] New Member from Sweden.

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a
car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now it´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/2006

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

9970. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 19:21:18 UTC
From: nasa820
Topic: 9948 Message: 9970

Thanks to everyone for the info and advice. At this end, the little grey cells are still struggling.

I have the original Instruction and Service Manuals that came with this radio. I'm sure there were a number of editions. In any event, my page numbers and ilustrations don't always line up with some that were referenced. For example, the pictures are on page 36 of my manual (a foldout page) not page 31 as noted by Gordon. Not a big deal; I know where the pictures are and where the Final Unit is.

On Page 10 of the Service Manual (input from W6HV), the lower picture shows a view of the bottom of the unit. The Final Unit is in the upper right hand section. Kenwood calls it the Final Unit. It is commonly called the Final Cage by those in the group - I'm sure we're talking the same thing. Unfortunately, no caption "TC1 Neutralization" as noted by W6HV (or Gordon.) On page 11, there is a detailed schematic of the Final Unit Board - lower side(X56-1380-00.) No TC1 trim cap on that board. My unit physically matches the schematic.

TC1 IS shown on the PLL Unit board (X50-1680-00) on page 16 of the Service Manual. It is called out as "TC1 (10 Mhz)". In the Parts List, TC1 is shown as a 50 pF Ceramic trimmer, P/N C05-0029-15. But, wait! There is another TC1 - it's shown on the IF Board - it's a 100 pF ceramic trimmer with P/N C05-0314-05. It's shown as "CAR balance." Now that's a fine kettle of fish - two TC1's with different PN's and different values. But none in the Final Unit. Great Cuggily Muggily! (For what it's worth, there's yet another TC1 on the VFO board, with another PN and adjustment value.)

My Service Manual Adjustment Section calls out (Step 25) Neutralization Trimmer Adjustment as adjusting the "neutralization Trimmer", no component number mentioned. It also calls out no UNIT for the adjustment, as do most, if not all, of the others. However, Adjustment #7, "VFO, RIT FIX CH" and Adjustment #8 DO call out adjusting TC1 while adjusting the VFO or Counter on their units. (stands to reason.)

My little grey cells are starting to feel a little better, since it appears my problem is there is NO Neutralization Trimmer to be found on my rig! At least not on the Final Unit. That's why I couldn't find it. Now, where is that rascal? Or, maybe, I don't have to Neutralize!

My unit S/N 1040872. I don't know whether it is an early or late unit.

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@...> wrote:
>
> TC1 is found on the bottom side of the final unit. It's near the
front, left ft corner (viewed with the rig upside down and the front
facing away from you). Look at page 10 of the service manual, the
bottom view. On the upper right side of the photo you should see a
caption "TC1 Neutralization".
> 73,
> Troy, W6HV
> ----- Original Message -----
> From: nasa820<mailto:nasa820@...>
> To:
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>

> Sent: Saturday, October 07, 2006 2:43 PM
> Subject: [TS-520_820_530_830] 830 Neutralization
>
>
> I've been running my 830S for the last couple of years, and really
> like this xmtr. When my transmit power went to zero recently, I found
> the output tubes had gone south. Not a problem; I have three sets of
> matched replacements. I installed a new set of GE 6146Bs. The tubes
> lit up, and I was able to tune up readily into a dummy load. Now, on
> to the neutralization process. Or was it?
>
> The Operating Manual says "adjust TC1, reached through the adjustment
> hole in the top of the final section.)" No hole in the top of the
> cage (assume that's what they mean by the final section.) Two holes
> in the side - neither appear to go to anything like what I'm looking
> for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> T7-T12. Is that the puppy I'm supposed to be cranking on?
>
> I've read all the correspondence on this site as well as all the help
> files, etc etc. I can't seem to correlate the "I shrink 2 pieces of
> shrink tubing, (double thickness) on the screwdriver shaft so it will
> not touch the edges of the hole in the cover." comments with what I'm
> seeing. What hole? What cover? If I have the right TC1, no access
> problem at all. Hmmmmm.....
>
> Sorry if this is obvious to everyone else; sometimes the "little grey
> cells are not working."
>
> Bob
> W7DDD
>
>
>
>
>
>

>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

9971. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 20:40:10 UTC
From: David Rust
Topic: 9948 Message: 9971

Bob, W7DDD, your think your pages don't match up, I just got a TS830s with a service manual and schematics. I had several pages that looked entirely different, down to the print style. I had already suspect something wasn't right, and sure enough after looking at some fine print, part of the schematic they sent me was for a Yaesu FT757gx. One has to be suspicious I guess.
dlr

[Non-text portions of this message have been removed]

9972. 1N5711 replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 20:49:21 UTC
From: harrycwleung
Topic: 9972 Message: 9972

Hi Gang,

I want to make the diodes replavement to my TS 520S.
Will it improve the S/N ration? And what are the locations
and D No.in the circuit diagram? Your help and suggestion
are very appreciated.

73 de Harry,

9973. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 19:53:01 UTC
From: Troy, W6HV
Topic: 9948 Message: 9973

Bob, I just sent a scan of the page from my manual to your email address on QRZ. Hope it will help.
73,
Troy, W6HV
----- Original Message -----
From: nasa820<mailto:nasa820@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, October 08, 2006 12:21 PM
Subject: [TS-520_820_530_830] Re: 830 Neutralization

Thanks to everyone for the info and advice. At this end, the little grey cells are still struggling.-----
On Page 10 of the Service Manual (input from W6HV), the lower picture shows a view of the bottom of the unit. The Final Unit is in the upper right hand section. Kenwood calls it the Final Unit. It is commonly called the Final Cage by those in the group - I'm sure we're talking the same thing. Unfortunately, no caption "TC1 Neutralization" as noted by W6HV (or Gordon.) ----

[Non-text portions of this message have been removed]

9974. More info about TS-820 In Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 20:04:57 UTC
From: sm0wid
Topic: 9974 Message: 9974

Thanks to KA3DPW , WB8UHZ , K4AXF.

The rig is a TS-820 nothing else.

I modified a Leson TX-232 microphone for this purpose and hopefully it will sound good.

I have changed all tubes to original one´s, I have had the tubes at my company for a while, lucky I didn´t sell them.

I also had to change the Tx-relay, I have American Zettler brandnew 12V relay different types which fits alright.

The RF power is aprox. 120 W "all ower" according to my PM330 dummyload after retuned.

I also had to renovate the VFO plastic/metalic wheel because it was stuck, a real finemechanical work with magnifying glass, file and surgical knife.

Had no problems with selectors, switches or potentiometers.

The Rx was quit alright exept the 40m who was tuned up using my TDS-220 , SG Marconi TF2015, Counter GFC-8100, and Nordmende SRG 389 (TG).

There is also a modification with a switch to the Rx close to the MF-filters, and I´m not sure if it is for supression or something, I´ll check it out later.

At this moment the "rig" is connected to a 10m dipolantenn horizontal South to North and also a vertical AH-7000 is available.

This week, hopefully, my specialdesigned L-antenn 40by40 will be mounted up on the roof West by East if the janitor doesn´t mind.

At this moment there is a 17 element uhf antenn, 10m dipol, Comet 250 uhf/vhf, AH-7000 discone and a Avanti 800-1300 Mhz commercial antenn approximately 75 meter over the sea. I got a real nice view over the capitol of Sweden, Stockholm up on the roof. The only problem is all the cable´s, because the lenght is 40 meter down to the apartment.

I have been working with "radios" since 1974 but I waited to take my licens until my friends "pushed me" to do it. I got 12 Hours to prepare and it was easy.

I´ve got a list of "tubes used and new" out on the Internet which is for sale real cheap. If it say´s "sålda" then it´s sold out.

The link is as follows:

http://www.letalokalt.se/Portals/0/InfoFiler/133844/aca36c7f-609b-4696-a3dc-0189af6aae23.doc

DE / SMØWID

9975. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:10:24 UTC
From: Gordon
Topic: 9948 Message: 9975

--- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> I've been running my 830S for the last couple of years, and really
> like this xmtr. When my transmit power went to zero recently, I found
> the output tubes had gone south. Not a problem; I have three sets of
> matched replacements. I installed a new set of GE 6146Bs. The tubes
> lit up, and I was able to tune up readily into a dummy load. Now, on
> to the neutralization process. Or was it?
>
> The Operating Manual says "adjust TC1, reached through the adjustment
> hole in the top of the final section.)" No hole in the top of the
> cage (assume that's what they mean by the final section.) Two holes
> in the side - neither appear to go to anything like what I'm looking
> for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> T7-T12. Is that the puppy I'm supposed to be cranking on?
>
>
> Bob
> W7DDD
>

NO, THAT IS NOT THE ONE !!

9976. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:08:10 UTC
From: Gordon
Topic: 9948 Message: 9976

Bob,
Go here and look at the picture. It is the page from my 830S Manual.

Hopefully it will help you locate the TC1 Cap for Neutralization
http://www.n6wk.com/kenwood/TS-830%20Neutralization%20cap%20location.pdf

73,'
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> Thanks to everyone for the info and advice. At this end, the little
> grey cells are still struggling.
>
> I have the original Instruction and Service Manuals that came with
> this radio. I'm sure there were a number of editions. In any event,
> my page numbers and ilustrations don't always line up with some that
> were referenced. For example, the pictures are on page 36 of my
> manual (a foldout page) not page 31 as noted by Gordon. Not a big
> deal; I know where the pictures are and where the Final Unit is.
>
> On Page 10 of the Service Manual (input from W6HV), the lower picture
> shows a view of the bottom of the unit. The Final Unit is in the
> upper right hand section. Kenwood calls it the Final Unit. It is
> commonly called the Final Cage by those in the group - I'm sure we're
> talking the same thing. Unfortunately, no caption "TC1 Neutralization"
> as noted by W6HV (or Gordon.) On page 11, there is a detailed
> schematic of the Final Unit Board - lower side(X56-1380-00.) No TC1
> trim cap on that board. My unit physically matches the schematic.
>
> TC1 IS shown on the PLL Unit board (X50-1680-00) on page 16 of the
> Service Manual. It is called out as "TC1 (10 Mhz)". In the Parts
> List, TC1 is shown as a 50 pF Ceramic trimmer, P/N C05-0029-15. But,
> wait! There is another TC1 - it's shown on the IF Board - it's a 100
> pF ceramic trimmer with P/N C05-0314-05. It's shown as "CAR balance."
> Now that's a fine kettle of fish - two TC1's with different PN's and
> different values. But none in the Final Unit. Great Cuggily Muggily!
> (For what it's worth, there's yet another TC1 on the VFO board, with
> another PN and adjustment value.)
>
> My Service Manual Adjustment Section calls out (Step 25)
> Neutralization Trimmer Adjustment as adjusting the "neutralization
> Trimmer", no component number mentioned. It also calls out no UNIT
> for the adjustment, as do most, if not all, of the others. However,
> Adjustment #7, "VFO, RIT FIX CH" and Adjustment #8 DO call out
> adjusting TC1 while adjusting the VFO or Counter on their units.

> (stands to reason.)
>
> My little grey cells are starting to feel a little better, since it
> appears my problem is there is NO Neutralization Trimmer to be found
> on my rig! At least not on the Final Unit. That's why I couldn't
> find it. Now, where is that rascal? Or, maybe, I don't have to
> Neutralize!
>
> My unit S/N 1040872. I don't know whether it is an early or late unit.
>
> Bob
> W7DDD
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@> wrote:
> >
> > TC1 is found on the bottom side of the final unit. It's near the
> front, left ft corner (viewed with the rig upside down and the front
> facing away from you). Look at page 10 of the service manual, the
> bottom view. On the upper right side of the photo you should see a
> caption "TC1 Neutralization".
> > 73,
> > Troy, W6HV
> > ----- Original Message -----
> > From: nasa820<mailto:nasa820@>
> > To:
>
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
>
> > Sent: Saturday, October 07, 2006 2:43 PM
> > Subject: [TS-520_820_530_830] 830 Neutralization
> >
> >
> > I've been running my 830S for the last couple of years, and really
> > like this xmtr. When my transmit power went to zero recently, I
found
> > the output tubes had gone south. Not a problem; I have three
sets of
> > matched replacements. I installed a new set of GE 6146Bs. The
tubes
> > lit up, and I was able to tune up readily into a dummy load.
Now, on
> > to the neutralization process. Or was it?
> >
> > The Operating Manual says "adjust TC1, reached through the
adjustment
> > hole in the top of the final section.)" No hole in the top of the
> > cage (assume that's what they mean by the final section.) Two holes
> > in the side - neither appear to go to anything like what I'm looking

> > for. Service Manual shows TC1 in the middle of the PLL Unit -
bottom
> > of the xcvr. Yup, found that small adjustable cap. Just
adjacent to
> > T7-T12. Is that the puppy I'm supposed to be cranking on?
> >
> > I've read all the correspondence on this site as well as all the
help
> > files, etc etc. I can't seem to correlate the "I shrink 2 pieces of
> > shrink tubing, (double thickness) on the screwdriver shaft so it
will
> > not touch the edges of the hole in the cover." comments with
what I'm
> > seeing. What hole? What cover? If I have the right TC1, no access
> > problem at all. Hmmmmm.....
> >
> > Sorry if this is obvious to everyone else; sometimes the "little
grey
> > cells are not working."
> >
> > Bob
> > W7DDD
> >
> >
> >
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

9977. Re: Diode replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:12:38 UTC
From: Gordon
Topic: 9937 Message: 9977

Very Informative Post Walt.
Thank You !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Commenting on this further,
>
> Diodes make noise. While not more than atmospheric noise, noise is additive. Diode noise is one of the many hisses you hear in a receiver when it is attached to a dummy load. Since Schottkys are quieter, the additive noise should be lower. I have not done this mod yet, but what Gordon and Max say makes sense. What they will surely do is create less distortion in the modulated and demodulated signal. This is because the Schottkys snap faster.
>
> By snap, I mean that diodes conduct one way but not the other. In OVERSIMPLIFIED theory, if a positive voltage is applied to the anode of a germanium,silicon, or schottky diode, (this does not apply to zeners) current (electrons) will flow from the - cathode to the positive anode. As the positive voltage is reduced to zero and then becomes a negative voltage, the current flow stops when the electron flow reverses.
>
> This action is like a check valve in plumbing. It allows water to flow one direction but when it tries to flow the other, it shuts off.
>
> Now, you note that I said OVERSIMPLIFIED.
>
> That is because the cut off point does not occur at exactly +/- 0 volts. With a silicon diode, when the anode is slightly positive, current flow does not occur until the positive voltage reaches .6 to .7 volts. With germanium diodes this is around .2 volts, and with Schottky diodes, this is lower than that closest to zero of any of them.
>
> Another factor is snap or switching speed. When a rapidly changing signal such as an audio or RF signal is applied, when the conduction point is reached, cut on, off does not happen immediately. This conduction initializes over a time period, very short, never the less, a time period. This snap or switching rate is different from diode to diode, but Schottkys generally have much faster switching rates than other diodes except for some microwave diodes. The faster and lower snap voltage causes less dead spots as the audio or RF wave changes

from + to - and thus creates less distortion. This would be akin to
having less cross-over distortion in a push pull amplifier.
>
> How much improvement you will notice depends on how critical your
ear is. If you enjoy the sound of a cell phone do not worry about any
of this. Bit even if you are hard of hearing, particularly from high
frequency loss, cleaner lower distortion audio will be beneficial to you.
>
> Since Max and Gordon are hearing weak signals better, something is
happening. Whether it is a better s/n ratio or less intermodulation
products between the noises complicating the signal, the result seems
to be beneficial.
>
> And one benefit very well could be that with lower distortion on
receive, the complex noise is generating less intermodulation products.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: w5mhl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 07, 2006 12:10 PM
> Subject: [TS-520_820_530_830] Diode replacement
>
>
> I have taken Gordon up on his kind offer to supply replacement diodes
> for the TS-830. However I wonder if they really improve the
> sensitivity, or simply lower the gain. I have never had a situation
> at HF where the atmospheric noise with antenna attached did not
> overide the inherent receiver noise. Also in a well designed receiver
> with proper gain distribution, the ultimate S.N. ratio will be
> determined by the front end. This assumes that the noise floor being
> discussed is the level achieved with no antenna attached.
>
> When I receive the diodes, I'll try to make an actual comparison of
> sensitivity, before and after.
>
> Am I missing something here? Comments?
>
> Jim, w5mhl
>
>
>
>
>
>
>
>

>
>

> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date:
10/6/06
>
>
> [Non-text portions of this message have been removed]
>

9978. Re: new tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:13:57 UTC
From: Gordon
Topic: 9966 Message: 9978

Hi Chris,
No, they are NOT plug and play. You will need to Neutralize them
after installation.

73,
Gordon

--- In TS-520_820_530_830@...m, "w7cth" <w7cth@...> wrote:
>
> Are new tubes plug and play? or do you need to anything after install.
> I am gong to order 6146W's and a 12BY7A this week from Nebraska Surplus.
>
> Chris W7CTH
>

9979. Re: Diodes in TS-820, numbers, 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:22:26 UTC
From: Gordon
Topic: 9961 Message: 9979

It was my Pleasure Walt. I just did some of the 830, but the schematic
is so big, I had to put it on 2 sheets. However, the circuit traces
line up very well when placed together. I wish I had a better original
color schematic for the 830, but this one isn't all that bad.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
>
> PS: Thanks Gordon for providing me with clear documentation to look
these up
> on.
Walt
>
>

9980. Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:19:20 UTC
From: Gordon
Topic: 9980 Message: 9980

I have sold all but 22 of the 200 Schottky diodes I had. I have 2 sets of four matched diodes and another set of 12 matched diodes left.
I shipped the first 100 on Saturday and the others are going out in Mondays mail. I even sent some to our brothers overseas.

73 to all.

Gordon

9981. Re: Diodes in TS-820, numbers, 1n5711 Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 22:42:49 UTC
From: Ellen R
Topic: 9961 Message: 9981

Hi Walt,

As usual, very valuable information from you. And yes, it might be good for me to change the processor diodes, because I do use my speech processor quite a bit.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Diodes to change to 1N5711 Schottky diodes in the TS-820 and TS-820S.
>
> Main modulator and product detector:
>
> D-9, D-10, D-11, and D-12 are the diodes to change for the product detector.
>
> D-26, D-27, D-28, and D-29 are the diodes for the main balanced modulator.
> ....
> ....
> If you use the speech processor in the TS-820 very often, you may eventually
> wish to consider changing the processor diodes also. It can't do anything
> but reduce distortion in the processor a bit. I am not sure if I will or not
> because I soon will be using another external processor. But I am providing
> the information for your use.
>
> In the TS-820, TS-820S RF speech processor:
>
> D-31, D-32, D-33, and D-34 are the modulator diodes at the input of the RF
> speech processor.
>
> D-35, D-36, D-37, and D-38 are the product detector diodes at the RF speech
> processor output.
>
>
> Ellen:
>

> While I hate to see rigs butchered up with a lot of modifications,
I would
> not worry about changing diodes one for one in the TS-820 for
reasons of
> originality.
>
> I certainly would be concerned about radical modifications that
involved a
> lot of changes and foil modifications such as, WARC mods, QRO mods
(yuck!),
> drilling holes, particularly in the front panel, and things like
that. But
> changing diodes is like using improved spark plugs that fit exactly
without
> modification in a classic car.
>
> I also would not be concerned about changing a filter to an INRAD
if it was
> an exact fit.
>
> I am not sure that I am sold on the FET changes either, but I am
looking
> into it.
>
> My opinion,
>
> Walt N9WB
>
> PS: Thanks Gordon for providing me with clear documentation to look
these up
> on. Walt
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Walt, could you let me know what the diode #s are on the board
> > (I'm just feeling lazy, and don't feel like poring over the
> > schematic, LOL)? I have mixed feelings about this. I'd love to
> > improve my baby's performance, but by the same token, as a
> > classic/now becoming collectable rig, I'm leery about messing with
> > its originality.
> >
> > Ellen - AF9J
>

9982. TS530 manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 21:25:37 UTC
From: Rich Jones
Topic: 9982 Message: 9982

I cannot locate my manual. TS530. Glad to pay for photo copy. Thank you, Rich KG7FS Good in QRZ

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

9983. TS820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 22:32:55 UTC
From: sm0wid
Topic: 9983 Message: 9983

Hi again.

Photo uploaded to new Album SMØWID.

9984. Re: new tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 22:51:32 UTC
From: Ellen R
Topic: 9966 Message: 9984

Hi Chris,

With most 12BY7A installations, unless things are really out of whack, you won't have to do any neutralization. BUT, with a new set of finals, you will have to neutralize them, to avoid spurious oscillations. Your manual should have a procedure for doing it. It should be pretty similar to the procedure my TS-820 has. Basically you're turning the neutralizing capacitor, for the lowest registered noise (as seen either in an O-scope, on an RF voltmeter, or a sensitve QRP wattmeter [that'll read at aleast as low as 1mW]). It's not hard to do, just tedious at times, and you have to be careful, in dealing with the voltages the finals have.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
> Are new tubes plug and play? or do you need to anything after install.
> I am gong to order 6146W's and a 12BY7A this week from Nebraska Surplus.
>
> Chris W7CTH
>

9985. Re: [TS-520_820_530_830] TS530 manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 23:05:15 UTC
From: David Rust
Topic: 9982 Message: 9985

Copies of Kenwood manuals are available for downloading free of charge thanks to N6WK.

http://www.n6wk.com/kenwood/

[Non-text portions of this message have been removed]

9986. Fwd: [TS-820_830] Re: 820 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 23:39:37 UTC
From: kc2aup@arrl.net
Topic: 9986 Message: 9986

Quick question for the group.....

Is the neutralization process the same for the 820 as the 830?

[Non-text portions of this message have been removed]

9987. station question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 23:12:54 UTC
From: Richard Fox
Topic: 9987 Message: 9987

I know this is probably more than a little silly to be asking but i am fairly new. I was reciently given a TS-830S with all the accessories except the SM-220, and was concerned all the documentation i have seen says the matching speaker is the sp-230 but I have an SP-820? is the sp-820 suppose to go with the TS-830 or some other kenwood rig? if anyone would like to trade for the sp-230 i would be more then willing to do that.

thanks for the info

richard KI4GCX

9988. Fwd: [TS-820_830] Re: 820 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-08 23:46:40 UTC
From: Gordon
Topic: 9986 Message: 9988

Close,
The 820 says to Neutralize at 21.225
The TS-830 says to Neutralize at 28.800
Other then the location of the Neutralixation trimmer, it is the same.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, kc2aup@... wrote:
>
> Quick question for the group.....
>
> Is the neutralization process the same for the 820 as the 830?
>
>
> [Non-text portions of this message have been removed]
>

9989. Fwd: [TS-520_820_530_830] Fwd: [TS-820_830] Re: 820 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 00:22:44 UTC
From: kc2aup@arrl.net
Topic: 9989 Message: 9989

Thank you Gordon....appreciated....

Frank
kc2aup....

[Non-text portions of this message have been removed]

9990. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 00:40:59 UTC
From: nasa820
Topic: 9948 Message: 9990

Whew, I think we're getting somewhere, Troy! My Manual has the
picture with no such trim callout. And I found a screw under all
those wires. (I sent a jpg to Troy.) So now I think I can move on
and try to screw up the neutralization. Thanks for your help. It
really made a big difference!

73,

Bob

--- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@...> wrote:
>
> Bob, I just sent a scan of the page from my manual to your email
address on QRZ. Hope it will help.
> 73,
> Troy, W6HV
> ----- Original Message -----
> From: nasa820<mailto:nasa820@...>
> To:
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>

> Sent: Sunday, October 08, 2006 12:21 PM
> Subject: [TS-520_820_530_830] Re: 830 Neutralization
>
>
> Thanks to everyone for the info and advice. At this end, the little
> grey cells are still struggling.-----
> On Page 10 of the Service Manual (input from W6HV), the lower picture
> shows a view of the bottom of the unit. The Final Unit is in the
> upper right hand section. Kenwood calls it the Final Unit. It is
> commonly called the Final Cage by those in the group - I'm sure we're
> talking the same thing. Unfortunately, no caption "TC1 Neutralization"
> as noted by W6HV (or Gordon.) ----
>
> [Non-text portions of this message have been removed]
>

9991. Re: [TS-520_820_530_830] TS530 manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 00:04:02 UTC
From: Rich Jones
Topic: 9982 Message: 9991

Thank you David. Mission accomplished. By the way, my sister, Karen married a Bill Rust. He would be in his late 50;s early 60's. I have not had the pleasure to meet him yet. It is both their second marriage. They live in Bay Ocean, Oregon. Thank you again, Rich KG7FS

David Rust <dlrust@...> wrote: Copies of Kenwood manuals are available for downloading free of charge thanks to N6WK.

http://www.n6wk.com/kenwood/

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9992. Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 01:17:22 UTC
From: Gordon
Topic: 9980 Message: 9992

All of my 200 Schottky Diodes have now been purchased. I did this at NO profit but I did it to help all the fellow members.
Man, It was a lot of work to process the orders, match the diodes, package them and address the packages, but I did enjoy the fact that I am helping other Kenwood lovers ! Each person actually receives an Original N6WK QSL card as a Bonus.. hi hi..
If I receive enough requests for More, I will purchase another batch and match them for sale. Anyone interested, please contact me Off List. I have No problem sending them Overseas also. I enjoy helping others.
I am surprised at the response to requesting these diodes. I hope everyone is as pleased as Rick, Bill and I were with replacing them.
I think now, my TS-830 is the BEST hearing receiver I own.

Please, after you receive them and Install them, Let us know what you think also.

73,
Gordon
N6WK

9993. Suppliers for 6146 tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 03:28:11 UTC
From: w7cth
Topic: 9961 Message: 9993

Can you guys give me the suppliers for the 6146 tubes.
I was told rfparts was a good place.
Chris..

9994. Re: [TS-520_820_530_830] TS530 manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 00:04:23 UTC
From: Rich Jones
Topic: 9982 Message: 9994

Thank you David. Mission accomplished. By the way, my sister, Karen married a Bill Rust. He would be in his late 50;s early 60's. I have not had the pleasure to meet him yet. It is both their second marriage. They live in Bay Ocean, near Tillamook, Oregon. Thank you again, Rich KG7FS

David Rust <dlrust@...> wrote: Copies of Kenwood manuals are available for downloading free of charge thanks to N6WK.

http://www.n6wk.com/kenwood/

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

9995. Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 04:23:41 UTC
From: Gordon
Topic: 9995 Message: 9995

Update,
I am already receiving requests for More of the Schottky Diodes. I
have decided to order up another 100 and offer them to the group Members.
So, anyone wanting any, please email me off list.
I offer them at NO profit to myself.
73,
Gordon
N6WK

9996. Re: [TS-520_820_530_830] Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 04:37:57 UTC
From: Rick May
Topic: 9995 Message: 9996

Hi Gordon,

What value are you getting for this batch of 1N5711's with your diode tester? Still in the 470 range? I am curious how uniform these are from Vishay.

73' Rick KC0HH

Gordon <n6wk@...> wrote: Update,
I am already receiving requests for More of the Schottky Diodes. I
have decided to order up another 100 and offer them to the group Members.
So, anyone wanting any, please email me off list.
I offer them at NO profit to myself.
73,
Gordon
N6WK

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

9997. Re: [TS-520_820_530_830] station question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 14:21:52 UTC
From: n9wb
Topic: 9987 Message: 9997

The SP-230 is the matching speaker for the TS-830. It has a headphone jack and high and low cut buttons. The SP-820 was intended for the TS-820. Of course either will work with either rig.

Vy 73, Walt N9WB

----- Original Message -----
From: Richard Fox
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 08, 2006 6:12 PM
Subject: [TS-520_820_530_830] station question

I know this is probably more than a little silly to be asking but i am
fairly new. I was reciently given a TS-830S with all the accessories
except the SM-220, and was concerned all the documentation i have seen
says the matching speaker is the sp-230 but I have an SP-820? is the
sp-820 suppose to go with the TS-830 or some other kenwood rig? if
anyone would like to trade for the sp-230 i would be more then willing
to do that.

thanks for the info

richard KI4GCX

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.1/466 - Release Date: 10/7/06

[Non-text portions of this message have been removed]

9998. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 14:01:38 UTC
From: digs4ruff
Topic: 9995 Message: 9998

Rick
My sample package of 50 gave the following measurements based on
different meter with new battery. Readings are taken after 5 seconds.

378 x 6 12%
379 x 19 38%
380 x 8 16%
381 x 15 30%
383 x 2 4%

380 is the average reading with the high of 383 and the low of 378
falling within 1% tolerance.

To my way of thinking one probably could not detect the difference
by ear even if these were not matched any closer than just using
them straight from the package.
Best regards from Vancouver
Barry VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...>
wrote:
>
> Hi Gordon,
>
> What value are you getting for this batch of 1N5711's with your
diode tester? Still in the 470 range? I am curious how uniform
these are from Vishay.
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Update,
> I am already receiving requests for More of the Schottky
Diodes. I
> have decided to order up another 100 and offer them to the group
Members.
> So, anyone wanting any, please email me off list.
> I offer them at NO profit to myself.
> 73,
> Gordon
> N6WK
>
>
>
>
>

>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get
things done faster.
>
> [Non-text portions of this message have been removed]
>

9999. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 15:18:06 UTC
From: n9wb
Topic: 9995 Message: 9999

I am curious as to what this is actually measuring?

Walt N9WB
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 09, 2006 9:01 AM
Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!

Rick
My sample package of 50 gave the following measurements based on
different meter with new battery. Readings are taken after 5 seconds.

378 x 6 12%
379 x 19 38%
380 x 8 16%
381 x 15 30%
383 x 2 4%

380 is the average reading with the high of 383 and the low of 378
falling within 1% tolerance.

To my way of thinking one probably could not detect the difference
by ear even if these were not matched any closer than just using
them straight from the package.
Best regards from Vancouver
Barry VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...>
wrote:
>
> Hi Gordon,
>
> What value are you getting for this batch of 1N5711's with your
diode tester? Still in the 470 range? I am curious how uniform
these are from Vishay.
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Update,
> I am already receiving requests for More of the Schottky
Diodes. I
> have decided to order up another 100 and offer them to the group
Members.
> So, anyone wanting any, please email me off list.

> I offer them at NO profit to myself.
> 73,
> Gordon
> N6WK
>
>
>
>
>
>
> ---
> All-new Yahoo! Mail - Fire up a more powerful email and get
things done faster.
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.1/466 - Release Date: 10/7/06

[Non-text portions of this message have been removed]

10000. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 14:30:45 UTC
From: digs4ruff
Topic: 9995 Message: 10000

Walt
I have no idea and wish I had a scope so I could see what is
actually happening. After Gordon said how he is measuring the diodes
I dug out a small digital meter I had bought in ZL land a couple
years ago for $7.00 and it has a diode position on it. I do note
that the reading does drop over about 5 seconds and am assuming this
is due to junction temperature changing but who really knows without
proper test equipment.
best regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I am curious as to what this is actually measuring?
>
> Walt N9WB
> ----- Original Message -----
> From: digs4ruff
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 09, 2006 9:01 AM
> Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!
>
>
> Rick
> My sample package of 50 gave the following measurements based on
> different meter with new battery. Readings are taken after 5
seconds.
>
> 378 x 6 12%
> 379 x 19 38%
> 380 x 8 16%
> 381 x 15 30%
> 383 x 2 4%
>
> 380 is the average reading with the high of 383 and the low of
378
> falling within 1% tolerance.
>
> To my way of thinking one probably could not detect the
difference
> by ear even if these were not matched any closer than just using
> them straight from the package.
> Best regards from Vancouver
> Barry VA7GEM
>

> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@>
> wrote:
> >
> > Hi Gordon,
> >
> > What value are you getting for this batch of 1N5711's with
your
> diode tester? Still in the 470 range? I am curious how uniform
> these are from Vishay.
> >
> > 73' Rick KC0HH
> >
> >
> > Gordon <n6wk@> wrote: Update,
> > I am already receiving requests for More of the Schottky
> Diodes. I
> > have decided to order up another 100 and offer them to the
group
> Members.
> > So, anyone wanting any, please email me off list.
> > I offer them at NO profit to myself.
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > All-new Yahoo! Mail - Fire up a more powerful email and get
> things done faster.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.13.1/466 - Release Date:
10/7/06

>
>
> [Non-text portions of this message have been removed]
>

10001. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 14:48:11 UTC
From: digs4ruff
Topic: 9995 Message: 10001

Walt
According to the Mickey Mouse manual for my meter it is measuring
forward voltage drop. This may make sense in that the spec sheet for
1N5711 indicates max forward voltage at 1ma forward current to
be .41V
http://www.st.com/stonline/products/literature/ds/3238.pdf#search=%
221n5711%22
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> Walt
> I have no idea and wish I had a scope so I could see what is
> actually happening. After Gordon said how he is measuring the
diodes
> I dug out a small digital meter I had bought in ZL land a couple
> years ago for $7.00 and it has a diode position on it. I do note
> that the reading does drop over about 5 seconds and am assuming
this
> is due to junction temperature changing but who really knows
without
> proper test equipment.
> best regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I am curious as to what this is actually measuring?
> >
> > Walt N9WB
> > ----- Original Message -----
> > From: digs4ruff
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, October 09, 2006 9:01 AM
> > Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!
> >
> >
> > Rick
> > My sample package of 50 gave the following measurements based
on
> > different meter with new battery. Readings are taken after 5
> seconds.
> >

> > 378 x 6 12%
> > 379 x 19 38%
> > 380 x 8 16%
> > 381 x 15 30%
> > 383 x 2 4%
> >
> > 380 is the average reading with the high of 383 and the low of
> 378
> > falling within 1% tolerance.
> >
> > To my way of thinking one probably could not detect the
> difference
> > by ear even if these were not matched any closer than just
using
> > them straight from the package.
> > Best regards from Vancouver
> > Barry VA7GEM
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@>
> > wrote:
> > >
> > > Hi Gordon,
> > >
> > > What value are you getting for this batch of 1N5711's with
> your
> > diode tester? Still in the 470 range? I am curious how uniform
> > these are from Vishay.
> > >
> > > 73' Rick KC0HH
> > >
> > >
> > > Gordon <n6wk@> wrote: Update,
> > > I am already receiving requests for More of the Schottky
> > Diodes. I
> > > have decided to order up another 100 and offer them to the
> group
> > Members.
> > > So, anyone wanting any, please email me off list.
> > > I offer them at NO profit to myself.
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > All-new Yahoo! Mail - Fire up a more powerful email and get

> > things done faster.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> >
> >
> > --
--
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.407 / Virus Database: 268.13.1/466 - Release
Date:
> 10/7/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

10002. RE: [TS-520_820_530_830] 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 14:03:36 UTC
From: Walter Milton
Topic: 9948 Message: 10002

Walt,

Correct me if I am wrong but my impression was that if you are replacing old tubes with the same manufacture that you did not have to reneutralize. Is this true or not?

The other Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Sunday, October 08, 2006 5:48 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 830 Neutralization

Bob:

We like to keep this as confusing as possible just so we can keep you on your toes.Hi (not really, but I know sometimes it must seem that way to you all. I'm sorry for that but we try.)

On the TS-830 there is no hole in the top of the final section. TC-1 is the capacitor that you need access to. It is pictured on the top diagram on page 31 of your instruction manual for the TS-830.

The TS-820 has a hole in the top for access. The cover must be on to do this. It makes this process miserable. Be thankful that you are neutralizing a TS-830.

Vy 73, Walt N9WB

----- Original Message -----
From: nasa820
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, October 07, 2006 4:43 PM
Subject: [TS-520_820_530_830] 830 Neutralization

I've been running my 830S for the last couple of years, and really like this xmtr. When my transmit power went to zero recently, I found the output tubes had gone south. Not a problem; I have three sets of matched replacements. I installed a new set of GE 6146Bs. The tubes lit up, and I was able to tune up readily into a dummy load. Now, on to the neutralization process. Or was it?

The Operating Manual says "adjust TC1, reached through the adjustment hole in the top of the final section.)" No hole in the top of the cage (assume that's what they mean by the final section.) Two holes in the side - neither appear to go to anything like what I'm looking for. Service Manual shows TC1 in the middle of the PLL Unit - bottom of the xcvr. Yup, found that small adjustable cap. Just adjacent to T7-T12. Is that the puppy I'm supposed to be cranking on?

I've read all the correspondence on this site as well as all the help files, etc etc. I can't seem to correlate the "I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover." comments with what I'm seeing. What hole? What cover? If I have the right TC1, no access problem at all. Hmmmmm.....

Sorry if this is obvious to everyone else; sometimes the "little grey cells are not working."

Bob
W7DDD

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10003. Fwd: [TS-820_830] Re: 820 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 15:38:46 UTC
From: Ellen R
Topic: 9986 Message: 10003

I have an 820, and the procedure is basically the same. BUT, it is done
at a different freq., than the 830's is.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, kc2aup@... wrote:
>
> Quick question for the group.....
>
> Is the neutralization process the same for the 820 as the 830?
>
>
> [Non-text portions of this message have been removed]
>

10004. TS-830s TLC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 15:19:10 UTC
From: drownut
Topic: 10004 Message: 10004

I am new to the list and have been reading the mail for just a week or so. I have a TS-830-s that I have owned since 1982 which has seen little or no use for the past 12 years. I have recently reactivated my interest in amateur radio and have installed a new TS 2000 station. It's OK, however, I miss the involvement of tuning up my 830 and twisting the dials, etc. I put it on the air last week and made a contact with a friend who said it sounded just like the 2000, if not better. However, it is a devil to tune now and seems to have an intermittant in the mic circuit (could be the mic., MC-160 or some unrelated problem).

I am envious of the knowledge of the list participants here and actually am intimidated through MY lack of knowledge about our great Kenwood hybrid gear. Be that as it may, I want to get this station (TS-830s, SP-230, VFO-230, and AT-230) back on the air in good order. I need a suggestion as to who I cand send the 830-s to for a good going over (alignment, tubes, WARC enableing, etc.). The unit looks like new and has been treated well over the years of use I have put it through.

Any suggestions as to who might be able to bring this gem back to full life?

Many thanks in advance,

Dave
KD7DD

10005. Re: [TS-520_820_530_830] TS-830s TLC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 16:06:42 UTC
From: Ruben Echevarria
Topic: 10004 Message: 10005

Personally I would go to my user manual and first of all tune it as per manual and see if it's
all working as it should. Go piece by piece and check the function of each and every accessory.
Compare it to the manual and see what you get.
You'll probably find that it's in working order. If not, there are plenty of people here that can help.
Post your findings to the group. Sounds like you have a nice setup there.

73 Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: drownut <drown@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 9, 2006 11:19:10 AM
Subject: [TS-520_820_530_830] TS-830s TLC

I am new to the list and have been reading the mail for just a week or so. I have a TS-830-s that I have owned since 1982 which has seen little or no use for the past 12 years. I have recently reactivated my interest in amateur radio and have installed a new TS 2000 station. It's OK, however, I miss the involvement of tuning up my 830 and twisting the dials, etc. I put it on the air last week and made a contact with a friend who said it sounded just like the 2000, if not better. However, it is a devil to tune now and seems to have an intermittant in the mic circuit (could be the mic., MC-160 or some unrelated problem).

I am envious of the knowledge of the list participants here and actually am intimidated through MY lack of knowledge about our great Kenwood hybrid gear. Be that as it may, I want to get this station (TS-830s, SP-230, VFO-230, and AT-230) back on the air in good order. I need a suggestion as to who I cand send the 830-s to for a good going over (alignment, tubes, WARC enableing, etc.). The unit looks like new and has been treated well over the years of use I have put it through.

Any suggestions as to who might be able to bring this gem back to full life?

Many thanks in advance,

Dave
KD7DD

[Non-text portions of this message have been removed]

10006. Re: TS-830s TLC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 16:13:21 UTC
From: digs4ruff
Topic: 10004 Message: 10006

Dave
Welcome to the list. I feel much the same as you re rig repair but can assure you that if you can use a multimeter and solder iron there is nothing in these rigs you can't repair. All the help and advice you need is right here and the feeling of satisfaction will far outweigh simply having an operating station. All you have to do is follow the step by step procedures these "experts" will outline and you will soon be saying "I did it".
best regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "drownut" <drown@...> wrote:
>
> I am new to the list and have been reading the mail for just a week
> or so. I have a TS-830-s that I have owned since 1982 which has
> seen little or no use for the past 12 years. I have recently
> reactivated my interest in amateur radio and have installed a new TS
> 2000 station. It's OK, however, I miss the involvement of tuning up
> my 830 and twisting the dials, etc. I put it on the air last week
> and made a contact with a friend who said it sounded just like the
> 2000, if not better. However, it is a devil to tune now and seems
> to have an intermittant in the mic circuit (could be the mic., MC-
> 160 or some unrelated problem).
>
> I am envious of the knowledge of the list participants here and
> actually am intimidated through MY lack of knowledge about our great
> Kenwood hybrid gear. Be that as it may, I want to get this station
> (TS-830s, SP-230, VFO-230, and AT-230) back on the air in good
> order. I need a suggestion as to who I cand send the 830-s to for a
> good going over (alignment, tubes, WARC enableing, etc.). The unit
> looks like new and has been treated well over the years of use I
> have put it through.
>
> Any suggestions as to who might be able to bring this gem back to
> full life?
>

> Many thanks in advance,
>
> Dave
> KD7DD
>

10007. Re: [TS-520_820_530_830] Re: TS-830s TLC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 16:34:32 UTC
From: David Rust
Topic: 10004 Message: 10007

Dave, I agree with Barry.

Don't feel intimidated by your radio. I consider myself a hammer and anvil technician, but I'm not afraid of one of them. I didn't know anything about a repeater years ago, and still don't know much, but I have had one on the air for 7 or 8 years with good success.

After watching and reading these posts for a while, I know this group can walk you though darn near anything. So, start asking questions, we'll all try to help you. I have a 530S and an 830s, and just love both of them. In fact I feel very fortunate to got a hand on them, both of them being in very good condition.

Let us hear from you.
73 Dave W0DLR near Branson, Mo.

[Non-text portions of this message have been removed]

10008. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 16:54:12 UTC
From: Chris HEmbree
Topic: 9911 Message: 10008

This tells you how much I like the 830s. Ny Nikon took the place of the Ten-Tec I was looking at.
Hi! Hi!
Chris

EA4BL <WATIMETRO@...> wrote: Good investment Chris.
What a great camera!
Ohhhh... If I only could...
73, Fernando, EA4BL
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 3:53 PM
Subject: Re: [TS-520_820_530_830] New Member from Sweden.

I just did a upgrade to Gen class in Aug. I was looking to buy a new HF rig. Now that I made a trade to get a 830s for free. The money went into a Nikon D200 camera. I like the look of the 830S and this group Plus all the Mods you can do to make the 830 a better radio. Anyone know a good place to buy the tubes for the 830s? I have a Kenwood 520S that works if anyone would like to buy it.
Chris W7CTH
Boise ID.

Jim Stoneback <jstonebk@...> wrote: Great call sign! And welcome to the group. I'm new myself, having recently traded for a TS-830s station. I had some problems with mine; but with the help of the group, I've got it working beautifully.

Keep them hybrids running!

73,

Jim K4AXF
In the Shenandoah Valley

----- Original Message -----
From: sm0wid
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:06 PM
Subject: [TS-520_820_530_830] New Member from Sweden.

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July from a friend. This "rig" has been standing on a shelf at a car company for at least 10 years. I have checked out "The Groups" message and found a couple of answers who was related to some Rx-problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now ít´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/2006

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10009. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 17:47:47 UTC
From: Gordon
Topic: 9995 Message: 10009

Good Morning Rick,

All of the 200 Diodes I have tested so far from these two batches
have read between 457 and 461 except for 4 that read 469, 451 and 2 at
452 . I went back and rechecked the ones from you and they still check
in the 470 range, so it's not something in the meter.
Although the readings were lower then the 8 I received from you,
they all seem to be well within a 1% tolerence.
I'll let you know how the next batch tests out also.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> What value are you getting for this batch of 1N5711's with your
diode tester? Still in the 470 range? I am curious how uniform these
are from Vishay.
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Update,
> I am already receiving requests for More of the Schottky Diodes. I
> have decided to order up another 100 and offer them to the group
Members.
> So, anyone wanting any, please email me off list.
> I offer them at NO profit to myself.
> 73,
> Gordon
> N6WK
>
>
>
>
>
>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get things
done faster.
>
> [Non-text portions of this message have been removed]
>

10010. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 17:53:19 UTC
From: Gordon
Topic: 9995 Message: 10010

Hi Barry,
I do notice that on my meter the reading may drop one number after
5 seconds, but not always. Interesting stuff.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Walt
> I have no idea and wish I had a scope so I could see what is
> actually happening. After Gordon said how he is measuring the diodes
> I dug out a small digital meter I had bought in ZL land a couple
> years ago for $7.00 and it has a diode position on it. I do note
> that the reading does drop over about 5 seconds and am assuming this
> is due to junction temperature changing but who really knows without
> proper test equipment.
> best regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I am curious as to what this is actually measuring?
> >
> > Walt N9WB
> > ----- Original Message -----
> > From: digs4ruff
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, October 09, 2006 9:01 AM
> > Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!
> >
> >
> > Rick
> > My sample package of 50 gave the following measurements based on
> > different meter with new battery. Readings are taken after 5
> seconds.
> >
> > 378 x 6 12%
> > 379 x 19 38%
> > 380 x 8 16%
> > 381 x 15 30%
> > 383 x 2 4%
> >
> > 380 is the average reading with the high of 383 and the low of

> 378
> > falling within 1% tolerance.
> >
> > To my way of thinking one probably could not detect the
> difference
> > by ear even if these were not matched any closer than just using
> > them straight from the package.
> > Best regards from Vancouver
> > Barry VA7GEM
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@>
> > wrote:
> > >
> > > Hi Gordon,
> > >
> > > What value are you getting for this batch of 1N5711's with
> your
> > diode tester? Still in the 470 range? I am curious how uniform
> > these are from Vishay.
> > >
> > > 73' Rick KC0HH
> > >
> > >
> > > Gordon <n6wk@> wrote: Update,
> > > I am already receiving requests for More of the Schottky
> > Diodes. I
> > > have decided to order up another 100 and offer them to the
> group
> > Members.
> > > So, anyone wanting any, please email me off list.
> > > I offer them at NO profit to myself.
> > > 73,
> > > Gordon
> > > N6WK
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > All-new Yahoo! Mail - Fire up a more powerful email and get
> > things done faster.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >

> >
> >
> > ---
> ----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.407 / Virus Database: 268.13.1/466 - Release Date:
> 10/7/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

10011. 830s TLC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 17:45:19 UTC
From: drownut
Topic: 10011 Message: 10011

Thanks for the offer to step me through my 830s difficulties. I will do what is necessary to tune up the transmitter and take notes as to how it behaves at each step or where it misbehaves and post the results. First I have to finish winterizing the doghouse.

Dave

10012. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:02:10 UTC
From: Rick May
Topic: 9995 Message: 10012

Hi Gordon,

OK..Interesting.. Is there a Vishay batch number on the plastic envelopes you received? There seems to be good uniformity between them all. I bought the ones I got last Winter as 1% tolerance so if that is the difference or just a different batch number I am not sure. Max is getting the original Vishay anti-static envelope I received them in so he can look for a batch number if there is one....

73' Rick KC0HH

Gordon <n6wk@...> wrote: Good Morning Rick,

All of the 200 Diodes I have tested so far from these two batches
have read between 457 and 461 except for 4 that read 469, 451 and 2 at
452 . I went back and rechecked the ones from you and they still check
in the 470 range, so it's not something in the meter.
Although the readings were lower then the 8 I received from you,
they all seem to be well within a 1% tolerence.
I'll let you know how the next batch tests out also.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> What value are you getting for this batch of 1N5711's with your
diode tester? Still in the 470 range? I am curious how uniform these
are from Vishay.
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Update,
> I am already receiving requests for More of the Schottky Diodes. I
> have decided to order up another 100 and offer them to the group
Members.
> So, anyone wanting any, please email me off list.
> I offer them at NO profit to myself.
> 73,
> Gordon
> N6WK
>
>
>
>

>
>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get things
done faster.
>
> [Non-text portions of this message have been removed]
>

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10013. Re: Best mic for 830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:18:54 UTC
From: nasa820
Topic: 9693 Message: 10013

I use the MC-50 with my 830 and have always received great audio reports. It gets a 5.0 on eHam reviews. I've never had to turn the mic gain up past about 3.0 which is about the 9 o'clock position, to get the onscale ALC reading called out in the Manual.

I've also used an unamplified D-130 Silver Eagle without problem, but have assigned that mic full-time to my Swan.

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, "Jim Stoneback" <jstonebk@...> wrote:
>
> Chris,
>
> Using the MC-50 with my TS-830 requires that the mic gain be turned full clockwise. It appears to work just fine, though. If that's what you're seeing, you don't have to change mics.
>
> 73,
> Jim K4AXF
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, October 01, 2006 4:19 AM
> Subject: Re: [TS-520_820_530_830] Best mic for 830s?
>
>
> Which stand does your D-104 have. Is it amplified or un-amplified?
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: w7cth
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, September 30, 2006 6:58 PM
> Subject: [TS-520_820_530_830] Best mic for 830s?
>
> Hello, I just picked up a Kenwood 830s this last weekend. The mc-50
> was bad will not drive the radio. I have a D104 that works, but I
> understand I may have impedance matching problem. Looking on Heil web
> site I see they have a kit for the D104.Or is it just better to get a
> new mic?
>

> I do like my D104 it looks cool.
> Chris W7CTH
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
9/29/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.10/459 - Release Date:
9/29/2006
>
>
> [Non-text portions of this message have been removed]
>

10014. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:19:12 UTC
From: Rick May
Topic: 9995 Message: 10014

Hi Gordon,

If the diode tester is measuring the voltage drop across the junction,
I wonder what the voltage threshold is for firing the diode...Did you receive the spec sheet on the 1N5711's ? This is intersting stuff....

73' Rick KC0HH

Gordon <n6wk@...> wrote: Hi Barry,
I do notice that on my meter the reading may drop one number after
5 seconds, but not always. Interesting stuff.

73,
Gordon

-

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10015. Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:37:23 UTC
From: digs4ruff
Topic: 9995 Message: 10015

I have just completed swapping out all 16 diodes on the IF board that Gordon refers to.
One word will sum up the results. WOW!!!!
Of course this is a subjective measurement based solely on my hearing ability. Either the 20M band opened up this afterneoon or we have done something really good to this 820S.
Barry in Vancouver
VA7GEM

10016. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:33:29 UTC
From: digs4ruff
Topic: 9995 Message: 10016

Rick
Nothing on my package to identify it other than Vishay 1N5711.
Barry

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...>
wrote:
>
> Hi Gordon,
>
> OK..Interesting.. Is there a Vishay batch number on the plastic
envelopes you received? There seems to be good uniformity between
them all. I bought the ones I got last Winter as 1% tolerance so if
that is the difference or just a different batch number I am not
sure. Max is getting the original Vishay anti-static envelope I
received them in so he can look for a batch number if there is
one....
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Good
Morning Rick,
>
> All of the 200 Diodes I have tested so far from these two batches
> have read between 457 and 461 except for 4 that read 469, 451 and
2 at
> 452 . I went back and rechecked the ones from you and they still
check
> in the 470 range, so it's not something in the meter.
> Although the readings were lower then the 8 I received from
you,
> they all seem to be well within a 1% tolerence.
> I'll let you know how the next batch tests out also.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@>
wrote:
> >
> > Hi Gordon,
> >
> > What value are you getting for this batch of 1N5711's with
your
> diode tester? Still in the 470 range? I am curious how uniform
these

> are from Vishay.
> >
> > 73' Rick KC0HH
> >
> >
> > Gordon <n6wk@> wrote: Update,
> > I am already receiving requests for More of the Schottky
Diodes. I
> > have decided to order up another 100 and offer them to the
group
> Members.
> > So, anyone wanting any, please email me off list.
> > I offer them at NO profit to myself.
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > All-new Yahoo! Mail - Fire up a more powerful email and get
things
> done faster.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

10017. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:49:56 UTC
From: Bill Richarz
Topic: 9995 Message: 10017

I thought I might replace all the diodes you specified
in the TS-820. After doing that are there any
adjustments that have to be made to the radio?

tnx,
de Bill, N4DH

--- Gordon <n6wk@...> wrote:

> Good Morning Rick,
>
> All of the 200 Diodes I have tested so far from
> these two batches
> have read between 457 and 461 except for 4 that read
> 469, 451 and 2 at
> 452 . I went back and rechecked the ones from you
> and they still check
> in the 470 range, so it's not something in the
> meter.
> Although the readings were lower then the 8 I
> received from you,
> they all seem to be well within a 1% tolerence.
> I'll let you know how the next batch tests out also.
> 73,
> Gordon
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May
> <kc0hh@...> wrote:
> >
> > Hi Gordon,
> >
> > What value are you getting for this batch of
> 1N5711's with your
> diode tester? Still in the 470 range? I am curious
> how uniform these
> are from Vishay.
> >
> > 73' Rick KC0HH
> >
> >
> > Gordon <n6wk@...> wrote:
> Update,
> > I am already receiving requests for More of the
> Schottky Diodes. I

> > have decided to order up another 100 and offer
> them to the group
> Members.
> > So, anyone wanting any, please email me off list.
>
> > I offer them at NO profit to myself.
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > ---
> > All-new Yahoo! Mail - Fire up a more powerful
> email and get things
> done faster.
> >
> > [Non-text portions of this message have been
> removed]
> >
>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

10018. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:52:59 UTC
From: Gordon
Topic: 9995 Message: 10018

Hi Rick,
Yes, I have the spec sheet from Vishay.
Here is it's location;
http://www.vishay.com/docs/85645/85645.pdf

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> If the diode tester is measuring the voltage drop across the
junction,
> I wonder what the voltage threshold is for firing the diode...Did
you receive the spec sheet on the 1N5711's ? This is intersting stuff....
>
> 73' Rick KC0HH
>
> Gordon <n6wk@...> wrote: Hi Barry,
> I do notice that on my meter the reading may drop one number after
> 5 seconds, but not always. Interesting stuff.
>
> 73,
> Gordon
>
> -
>
>
>
>
>
>
> ---------------------------------
> All-new Yahoo! Mail - Fire up a more powerful email and get things
done faster.
>
> [Non-text portions of this message have been removed]
>

10019. Re: Schottky Diodes UpDate !!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:51:51 UTC
From: Gordon
Topic: 9995 Message: 10019

Hi Rick,
No, The packages just say P/N 1N5711 MFG. Vishay.
No batch number at all.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@...> wrote:
>
> Hi Gordon,
>
> OK..Interesting.. Is there a Vishay batch number on the plastic
envelopes you received? There seems to be good uniformity between
them all. I bought the ones I got last Winter as 1% tolerance so if
that is the difference or just a different batch number I am not sure.
Max is getting the original Vishay anti-static envelope I received
them in so he can look for a batch number if there is one....
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Good
Morning Rick,
>
> All of the 200 Diodes I have tested so far from these two batches
> have read between 457 and 461 except for 4 that read 469, 451 and 2 at
> 452 . I went back and rechecked the ones from you and they still check
> in the 470 range, so it's not something in the meter.
> Although the readings were lower then the 8 I received from you,
> they all seem to be well within a 1% tolerence.
> I'll let you know how the next batch tests out also.
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick May <kc0hh@> wrote:
> >
> > Hi Gordon,
> >
> > What value are you getting for this batch of 1N5711's with your
> diode tester? Still in the 470 range? I am curious how uniform these
> are from Vishay.
> >
> > 73' Rick KC0HH
> >
> >

> > Gordon <n6wk@> wrote: Update,
> > I am already receiving requests for More of the Schottky Diodes. I
> > have decided to order up another 100 and offer them to the group
> Members.
> > So, anyone wanting any, please email me off list.
> > I offer them at NO profit to myself.
> > 73,
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > ---
> > All-new Yahoo! Mail - Fire up a more powerful email and get things
> done faster.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

10020. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:52:17 UTC
From: harrycwleung
Topic: 9995 Message: 10020

Hi Barry and the Group,

Do you think that the diodes swapping is good for TS520S also?

Harry.

-- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> I have just completed swapping out all 16 diodes on the IF board that
> Gordon refers to.
> One word will sum up the results. WOW!!!!
> Of course this is a subjective measurement based solely on my hearing
> ability. Either the 20M band opened up this afterneoon or we have done
> something really good to this 820S.
> Barry in Vancouver
> VA7GEM
>

10021. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:43:01 UTC
From: nasa820
Topic: 9948 Message: 10021

Neutralization Update from W7DDD.

Well, with the excellent help from this group, I found the neutralization trim screw hiding beneath a wire bundle. Never called out in my Manual. So, on to the job. I checked and reset the bias and checked the driver tube per K0ZL. All OK. The xmtr tuned up just fine into a dummy load. Since my oscilloscope is only good for 20Mhz, and I don't have a sensitive RF millivoltmeter, I went down two of N9WB alternate routes.

Using a "cheap" CB SWR meter, I couldn't get any reading even with the gain knob turned up all the way. Then I installed a Swan WM-200 wattmeter and, with the SG switch ON, used the power peak/current dip method he mentions. They seemed to be bang on.

So I hooked her up and made half a dozen contacts on 40 and 20 meters. All gave me good audio reports. Power output on my Array Solutions PowerMaster Wattmeter was running 100-115 watts. I checked into my nets this morning (where they know my voice), and they said the audio was great.

Now, I've never adjusted this trim cap that I looked so hard for! I've thought of doing a neutralization using my oscilloscope down on 20 meters. But, I've also thought of 'declaring victory' and moving on.

Comments?

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> Whew, I think we're getting somewhere, Troy! My Manual has the
> picture with no such trim callout. And I found a screw under all
> those wires. (I sent a jpg to Troy.) So now I think I can move on
> and try to screw up the neutralization. Thanks for your help. It
> really made a big difference!
>
> 73,
>
> Bob
>
> --- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@> wrote:
> >
> > Bob, I just sent a scan of the page from my manual to your email
> address on QRZ. Hope it will help.
> > 73,

> > Troy, W6HV
> > ----- Original Message -----
> > From: nasa820<mailto:nasa820@>
> > To:
>
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
>
> > Sent: Sunday, October 08, 2006 12:21 PM
> > Subject: [TS-520_820_530_830] Re: 830 Neutralization
> >
> >
> > Thanks to everyone for the info and advice. At this end, the little
> > grey cells are still struggling.-----
> > On Page 10 of the Service Manual (input from W6HV), the lower
picture
> > shows a view of the bottom of the unit. The Final Unit is in the
> > upper right hand section. Kenwood calls it the Final Unit. It is
> > commonly called the Final Cage by those in the group - I'm sure
we're
> > talking the same thing. Unfortunately, no caption "TC1
Neutralization"
> > as noted by W6HV (or Gordon.) ----
> >
> > [Non-text portions of this message have been removed]
> >
>

10022. Re: [TS-520_820_530_830] Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 19:05:19 UTC
From: Rick May
Topic: 9995 Message: 10022

Barry,

That pretty much sums up my experience with my 830S after doing the same swap. Like I said, I thought I forgot to re-connect something on the I.F. board when I turned the radio back on. It was way too quiet. This was last Winter and I worked several low power (10 watt) U.K. stations on 40 meter SSB because I could hear them....

Poor Gordon ...look what we started..Just because I was raving to him on 20 meters how quiet the Kenwood was now and had 17 extra diodes on hand.

It made sense it would work in the 820 also ...same diode ring design.

Rick KC0HH

digs4ruff <digs4ruff@...> wrote: I have just completed swapping out all 16 diodes on the IF board that
Gordon refers to.
One word will sum up the results. WOW!!!!
Of course this is a subjective measurement based solely on my hearing
ability. Either the 20M band opened up this afterneoon or we have done
something really good to this 820S.
Barry in Vancouver
VA7GEM

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10023. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 18:58:02 UTC
From: Gordon
Topic: 9995 Message: 10023

Thanks for the Results Barry.
That makes four of us that agree on this so far.
I was Impressed with the results as soon as I turned the radio on
after making the Mod, especially for the Weak signal stations.
We should make a list of the diodes to swap out on each of the
models 520 / 820 and the 530 / 830. I know which ones on the 820 and
830, but I haven't had time to look what the numbers are on the 520
and 530.
I'll look them up later today and post them so everyone will have that
info for their respective rig.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> I have just completed swapping out all 16 diodes on the IF board that
> Gordon refers to.
> One word will sum up the results. WOW!!!!
> Of course this is a subjective measurement based solely on my hearing
> ability. Either the 20M band opened up this afterneoon or we have done
> something really good to this 820S.
> Barry in Vancouver
> VA7GEM
>

10024. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 19:14:09 UTC
From: Clif
Topic: 9948 Message: 10024

Although your 'scope is only 20 MHz that just means it's accurate to there. It will show a trace up to probably 40MHz. You are not interested in the level just getting a trace and setting the cap for minimum. Unless the neutralization is way off a wattmeter is useless for setting neutralization. It won't read near low enough. Just make sure and use a tap and don't connect the 'scope directly to the ant connection.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> Neutralization Update from W7DDD.
>
> Well, with the excellent help from this group, I found the
> neutralization trim screw hiding beneath a wire bundle. Never called
> out in my Manual. So, on to the job. I checked and reset the bias
> and checked the driver tube per K0ZL. All OK. The xmtr tuned up
> just fine into a dummy load. Since my oscilloscope is only good for
> 20Mhz, and I don't have a sensitive RF millivoltmeter, I went down two
> of N9WB alternate routes.
>
> Using a "cheap" CB SWR meter, I couldn't get any reading even with the
> gain knob turned up all the way. Then I installed a Swan WM-200
> wattmeter and, with the SG switch ON, used the power peak/current dip
> method he mentions. They seemed to be bang on.
>
> So I hooked her up and made half a dozen contacts on 40 and 20 meters.
> All gave me good audio reports. Power output on my Array Solutions
> PowerMaster Wattmeter was running 100-115 watts. I checked into my
> nets this morning (where they know my voice), and they said the audio
> was great.
>
> Now, I've never adjusted this trim cap that I looked so hard for!
> I've thought of doing a neutralization using my oscilloscope down on
> 20 meters. But, I've also thought of 'declaring victory' and moving on.
>
> Comments?
>
> Bob
> W7DDD
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@> wrote:
> >

> > Whew, I think we're getting somewhere, Troy! My Manual has the
> > picture with no such trim callout. And I found a screw under all
> > those wires. (I sent a jpg to Troy.) So now I think I can move on
> > and try to screw up the neutralization. Thanks for your help. It
> > really made a big difference!
> >
> > 73,
> >
> > Bob
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@> wrote:
> > >
> > > Bob, I just sent a scan of the page from my manual to your email
> > address on QRZ. Hope it will help.
> > > 73,
> > > Troy, W6HV
> > > ----- Original Message -----
> > > From: nasa820<mailto:nasa820@>
> > > To:
> > >
>
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
> > >
> > > Sent: Sunday, October 08, 2006 12:21 PM
> > > Subject: [TS-520_820_530_830] Re: 830 Neutralization
> > >
> > >
> > > Thanks to everyone for the info and advice. At this end, the
little
> > > grey cells are still struggling.-----
> > > On Page 10 of the Service Manual (input from W6HV), the lower
> picture
> > > shows a view of the bottom of the unit. The Final Unit is in the
> > > upper right hand section. Kenwood calls it the Final Unit. It is
> > > commonly called the Final Cage by those in the group - I'm sure
> we're
> > > talking the same thing. Unfortunately, no caption "TC1
> Neutralization"
> > > as noted by W6HV (or Gordon.) ----
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
>

10025. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 19:17:56 UTC
From: Clif
Topic: 9995 Message: 10025

Has anybody happened to do a before and after reading on the Minimum Discernable Signal (MDS)?? I take readings by ear with a huge grain of salt... Most 830's I have seen are in the -138-140 range stock.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks for the Results Barry.
> That makes four of us that agree on this so far.
> I was Impressed with the results as soon as I turned the radio on
> after making the Mod, especially for the Weak signal stations.
> We should make a list of the diodes to swap out on each of the
> models 520 / 820 and the 530 / 830. I know which ones on the 820 and
> 830, but I haven't had time to look what the numbers are on the 520
> and 530.
> I'll look them up later today and post them so everyone will have that
> info for their respective rig.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > I have just completed swapping out all 16 diodes on the IF board that
> > Gordon refers to.
> > One word will sum up the results. WOW!!!!
> > Of course this is a subjective measurement based solely on my hearing
> > ability. Either the 20M band opened up this afterneoon or we have
done
> > something really good to this 820S.
> > Barry in Vancouver
> > VA7GEM
> >
>

10026. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 19:34:47 UTC
From: Rick May
Topic: 9995 Message: 10026

Hi Clif,

I, for one, don't have anything to measure MDS. What I have been doing is comparing it to my 765 which has an excellent receiver. Although it was aligned by someone who knew what they were doing. Hi...What is the typical MDS for the Icom as the two are identical now in doing A/B comparisons? This is with the 765 preamp turned on.

73' Rick KC0HH

Clif <clif@...> wrote: Has anybody happened to do a before and after reading on the Minimum Discernable Signal (MDS)?? I take readings by ear with a huge grain of salt... Most 830's I have seen are in the -138-140 range stock.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks for the Results Barry.
> That makes four of us that agree on this so far.
> I was Impressed with the results as soon as I turned the radio on
> after making the Mod, especially for the Weak signal stations.
> We should make a list of the diodes to swap out on each of the
> models 520 / 820 and the 530 / 830. I know which ones on the 820 and
> 830, but I haven't had time to look what the numbers are on the 520
> and 530.
> I'll look them up later today and post them so everyone will have that
> info for their respective rig.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > I have just completed swapping out all 16 diodes on the IF board that
> > Gordon refers to.
> > One word will sum up the results. WOW!!!!
> > Of course this is a subjective measurement based solely on my hearing
> > ability. Either the 20M band opened up this afterneoon or we have
done
> > something really good to this 820S.
> > Barry in Vancouver
> > VA7GEM
> >
>

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10027. Help....Something Other Than Shottkey Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 20:10:51 UTC
From: Rick KC0HH
Topic: 10027 Message: 10027

My processor in the 830S I use quit working a while back. Day off, so I thought I would look at things. With Proc turned off, good audio output with ALC reading adjusted by mic gain. When I push the proc button, I show deflection on the meter set to comp and the comp level works, but no output and no ALC indication. I found what looks like a broken connection behind the front panel ...It is the shields of the 3 white wires to the processor switch ganged together with the ends covered in heatshrink. It looks like it should be connected to the rear of the Proc button but there is no evidence of a wire having broken off there.

I don't use the processor that often but it annoys me it isn't working. I have been staring at schematics until I am cross eyed... Anyone out there have their top cover off their 830S

73' Rick KC0HH

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10028. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 20:16:22 UTC
From: w5mhl
Topic: 9995 Message: 10028

Clif, I agree and hope to make some quantitative measurements when I replace the diodes. I am not sure what is meant by noise floor, but some measure of sensitivity is needed. This of course will depend on the receiver bandwidth and how the MDS is defined. A -138 to -140 should be adequate for the HF bands.

Jim
--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> Has anybody happened to do a before and after reading on the Minimum
> Discernable Signal (MDS)?? I take readings by ear with a huge grain
of
> salt... Most 830's I have seen are in the -138-140 range stock.
>
> Clif
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks for the Results Barry.
> > That makes four of us that agree on this so far.
> > I was Impressed with the results as soon as I turned the radio on
> > after making the Mod, especially for the Weak signal stations.
> > We should make a list of the diodes to swap out on each of the
> > models 520 / 820 and the 530 / 830. I know which ones on the 820
and
> > 830, but I haven't had time to look what the numbers are on the
520
> > and 530.
> > I'll look them up later today and post them so everyone will have
that
> > info for their respective rig.
> >
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com,
"digs4ruff" <digs4ruff@>
> > wrote:
> > >
> > > I have just completed swapping out all 16 diodes on the IF
board that
> > > Gordon refers to.
> > > One word will sum up the results. WOW!!!!
> > > Of course this is a subjective measurement based solely on my

hearing
> > > ability. Either the 20M band opened up this afterneoon or we
have
> done
> > > something really good to this 820S.
> > > Barry in Vancouver
> > > VA7GEM
> > >
> >
>

10029. Re: [TS-520_820_530_830] Help....Something Other Than Shottkey Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 20:27:07 UTC
From: N6WK
Topic: 10027 Message: 10029

Hi Rick,
Yes I do. I show two black wires connected under some shrink tubing,
but they are NOT connected to the switch.
On the switch itself I have 2 white wires, a yellow wire a red wire a
white / purple tracer and a white with blue tracer.

73,
Gordon

Rick KC0HH wrote:

> My processor in the 830S I use quit working a while back. Day off, so
> I thought I would look at things. With Proc turned off, good audio
> output with ALC reading adjusted by mic gain. When I push the proc
> button, I show deflection on the meter set to comp and the comp level
> works, but no output and no ALC indication. I found what looks like a
> broken connection behind the front panel ...It is the shields of the 3
> white wires to the processor switch ganged together with the ends
> covered in heatshrink. It looks like it should be connected to the
> rear of the Proc button but there is no evidence of a wire having
> broken off there.
>
> I don't use the processor that often but it annoys me it isn't
> working. I have been staring at schematics until I am cross eyed...
> Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10030. Re: [TS-520_820_530_830] Help....Something Other Than Shottky Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 20:56:28 UTC
From: Rick KC0HH
Topic: 10027 Message: 10030

N6WK <n6wk@...> wrote:
Hi Gordon,

Same wires I show on rear of my switch. The heat shrink covers the ends of the black wires to the point where you could not solder them to anything without trimming the heat shrink back. That is the only wire(s) not connected to anything... Thanks

73' Rick KC0HH

Hi Rick,
Yes I do. I show two black wires connected under some shrink tubing,
but they are NOT connected to the switch.
On the switch itself I have 2 white wires, a yellow wire a red wire a
white / purple tracer and a white with blue tracer.

73,
Gordon

Rick KC0HH wrote:

> My processor in the 830S I use quit working a while back. Day off, so
> I thought I would look at things. With Proc turned off, good audio
> output with ALC reading adjusted by mic gain. When I push the proc
> button, I show deflection on the meter set to comp and the comp level
> works, but no output and no ALC indication. I found what looks like a
> broken connection behind the front panel ...It is the shields of the 3
> white wires to the processor switch ganged together with the ends
> covered in heatshrink. It looks like it should be connected to the
> rear of the Proc button but there is no evidence of a wire having
> broken off there.
>
> I don't use the processor that often but it annoys me it isn't
> working. I have been staring at schematics until I am cross eyed...
> Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10031. RX response after mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 21:13:04 UTC
From: max_ve3tmt
Topic: 10031 Message: 10031

As if we don't have enough to do, I replaced some caps on the AF board of my 830 in an attempt to get a better low end response. I have posted a picture of my sweep in the photo section under my callsign. Definitely looks like there is some improvement.

Caps I replaced were C11, C20, C23 and C87.

The first 3 were .47uf, I swapped them for 2.2uf. C87 is a .01uf which I swapped for a .001uf. I didn't bother changing the large electrolytic on the output of the main audio amp as my audio is tapped off before the AF GAIN control anyway.

If you tackle this mod note you do not have to rempve the AF board from the heat sink. Simply remove the three screws holding the heatsiink and the 2 circuit board screws on the right side of the board and the whole assembly will flip over. I was going to wait until my new diodes arrived but curiousity got the better of me!

Max VE3TMT

10032. Re: [TS-520_820_530_830] Help....Something Other Than Shottky Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 21:58:44 UTC
From: Ruben Echevarria
Topic: 10027 Message: 10032

I have the same wires on my TS830S ...

Ruben Echevarria
ka2hhb_2000@...

----- Original Message ----
From: Rick KC0HH <kc0hh@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 9, 2006 4:56:28 PM
Subject: Re: [TS-520_820_530_830] Help....Something Other Than Shottky Diodes.....

N6WK <n6wk@...> wrote:
Hi Gordon,

Same wires I show on rear of my switch. The heat shrink covers the ends of the black wires to the point where you could not solder them to anything without trimming the heat shrink back. That is the only wire(s) not connected to anything... Thanks

73' Rick KC0HH

Hi Rick,
Yes I do. I show two black wires connected under some shrink tubing,
but they are NOT connected to the switch.
On the switch itself I have 2 white wires, a yellow wire a red wire a
white / purple tracer and a white with blue tracer.

73,
Gordon

Rick KC0HH wrote:

> My processor in the 830S I use quit working a while back. Day off, so
> I thought I would look at things. With Proc turned off, good audio
> output with ALC reading adjusted by mic gain. When I push the proc
> button, I show deflection on the meter set to comp and the comp level
> works, but no output and no ALC indication. I found what looks like a
> broken connection behind the front panel ...It is the shields of the 3
> white wires to the processor switch ganged together with the ends
> covered in heatshrink. It looks like it should be connected to the
> rear of the Proc button but there is no evidence of a wire having
> broken off there.
>
> I don't use the processor that often but it annoys me it isn't
> working. I have been staring at schematics until I am cross eyed...
> Anyone out there have their top cover off their 830S
>

> 73' Rick KC0HH
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

------------ --------- --------- ---
All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10033. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 23:34:51 UTC
From: John Harp
Topic: 9948 Message: 10033

Hey I used a cheap little CB/wattmeter from radio shack to neutralize mine in a pinch once. I used the FSM side and looked for a dip. I took the antenna off it and rapped several turns around the coax lead to the dummy load as I remember. it generated enough signal ti raise the needle. Then I dipped the meter for the lowest setting at 28.5. It worked for me in a pinch. Try it.

nasa820 <nasa820@...> wrote: Neutralization Update from W7DDD.

Well, with the excellent help from this group, I found the
neutralization trim screw hiding beneath a wire bundle. Never called
out in my Manual. So, on to the job. I checked and reset the bias
and checked the driver tube per K0ZL. All OK. The xmtr tuned up
just fine into a dummy load. Since my oscilloscope is only good for
20Mhz, and I don't have a sensitive RF millivoltmeter, I went down two
of N9WB alternate routes.

Using a "cheap" CB SWR meter, I couldn't get any reading even with the
gain knob turned up all the way. Then I installed a Swan WM-200
wattmeter and, with the SG switch ON, used the power peak/current dip
method he mentions. They seemed to be bang on.

So I hooked her up and made half a dozen contacts on 40 and 20 meters.
All gave me good audio reports. Power output on my Array Solutions
PowerMaster Wattmeter was running 100-115 watts. I checked into my
nets this morning (where they know my voice), and they said the audio
was great.

Now, I've never adjusted this trim cap that I looked so hard for!
I've thought of doing a neutralization using my oscilloscope down on
20 meters. But, I've also thought of 'declaring victory' and moving on.

Comments?

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> Whew, I think we're getting somewhere, Troy! My Manual has the
> picture with no such trim callout. And I found a screw under all
> those wires. (I sent a jpg to Troy.) So now I think I can move on
> and try to screw up the neutralization. Thanks for your help. It
> really made a big difference!
>
> 73,
>
> Bob

>
> --- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@> wrote:
> >
> > Bob, I just sent a scan of the page from my manual to your email
> address on QRZ. Hope it will help.
> > 73,
> > Troy, W6HV
> > ----- Original Message -----
> > From: nasa820<mailto:nasa820@>
> > To:
>
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
>
> > Sent: Sunday, October 08, 2006 12:21 PM
> > Subject: [TS-520_820_530_830] Re: 830 Neutralization
> >
> >
> > Thanks to everyone for the info and advice. At this end, the little
> > grey cells are still struggling.-----
> > On Page 10 of the Service Manual (input from W6HV), the lower
picture
> > shows a view of the bottom of the unit. The Final Unit is in the
> > upper right hand section. Kenwood calls it the Final Unit. It is
> > commonly called the Final Cage by those in the group - I'm sure
we're
> > talking the same thing. Unfortunately, no caption "TC1
Neutralization"
> > as noted by W6HV (or Gordon.) ----
> >
> > [Non-text portions of this message have been removed]
> >
>

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10034. Re: [TS-520_820_530_830] New Member from Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 23:38:31 UTC
From: John Harp
Topic: 9911 Message: 10034

Chris I just bought a 2 meter transverter TV-502. I'm gonna see how well it works on VHF. It's gonna take a while to get it going. I may ask for help from the group.

Chris HEmbree <w7cth@...> wrote: This tells you how much I like the 830s. Ny Nikon took the place of the Ten-Tec I was looking at.
Hi! Hi!
Chris

EA4BL <WATIMETRO@...> wrote: Good investment Chris.
What a great camera!
Ohhhh... If I only could...
73, Fernando, EA4BL
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 07, 2006 3:53 PM
Subject: Re: [TS-520_820_530_830] New Member from Sweden.

I just did a upgrade to Gen class in Aug. I was looking to buy a new HF rig. Now that I made a trade to get a 830s for free. The money went into a Nikon D200 camera. I like the look of the 830S and this group Plus all the Mods you can do to make the 830 a better radio. Anyone know a good place to buy the tubes for the 830s? I have a Kenwood 520S that works if anyone would like to buy it.
Chris W7CTH
Boise ID.

Jim Stoneback <jstonebk@...> wrote: Great call sign! And welcome to the group. I'm new myself, having recently traded for a TS-830s station. I had some problems with mine; but with the help of the group, I've got it working beautifully.

Keep them hybrids running!

73,

Jim K4AXF
In the Shenandoah Valley

----- Original Message -----
From: sm0wid
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 06, 2006 7:06 PM
Subject: [TS-520_820_530_830] New Member from Sweden.

Hi to All..

I´m a Swedish amateur who got a TS820 as a birthday present in July
from a friend. This "rig" has been standing on a shelf at a

car company for at least 10 years. I have checked out "The Groups"
message and found a couple of answers who was related to some Rx-
problems and now the transceiver is tuned up and working properly.

Thanks for all the tips and hints to the members of the group.

I´ve only had my license for three years so now ít´s time for
the "lower band", normally working on vhf and uhf in Stockholm.

Check out my last name according to the callsign, been waiting a long
time for that "one".

Good DXing

de / SMØWID / Locator JO99ag(36) /

Anders Wid

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/2006

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10035. 3Khz SSB filter for sale on qth.com

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-09 23:49:23 UTC
From: max_ve3tmt
Topic: 10035 Message: 10035

www.swap.qth.com

WB9YCJ has a YK-88S2 3.0 Khz filter for sle. Ad # 557220

Max VE3TMT

10036. Re: [TS-520_820_530_830] TS-830s TLC

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:05:26 UTC
From: John Harp
Topic: 10004 Message: 10036

Well there's a few members who do the work here in the group. Why not do it yourself. We do it. I'm no exception and I'm not just all thumbs.
Start by checking the wiring of the mic. Use a voltmeter to verify the pins.
Remember the one end is 4 pins and one is 5 pins. Use your wiring diagram to find the wiring.
Also if your 830 sat that long, why not go in and clean it. You'll get to know it well as you go. Sometimes it'll make a problem disappear too.
And welcome back to ham radio. You have a good choice of radio in an 830 and accessories.

drownut <drown@...> wrote:
I am new to the list and have been reading the mail for just a week
or so. I have a TS-830-s that I have owned since 1982 which has
seen little or no use for the past 12 years. I have recently
reactivated my interest in amateur radio and have installed a new TS
2000 station. It's OK, however, I miss the involvement of tuning up
my 830 and twisting the dials, etc. I put it on the air last week
and made a contact with a friend who said it sounded just like the
2000, if not better. However, it is a devil to tune now and seems
to have an intermittant in the mic circuit (could be the mic., MC-
160 or some unrelated problem).

I am envious of the knowledge of the list participants here and
actually am intimidated through MY lack of knowledge about our great
Kenwood hybrid gear. Be that as it may, I want to get this station
(TS-830s, SP-230, VFO-230, and AT-230) back on the air in good
order. I need a suggestion as to who I cand send the 830-s to for a
good going over (alignment, tubes, WARC enableing, etc.). The unit
looks like new and has been treated well over the years of use I
have put it through.

Any suggestions as to who might be able to bring this gem back to
full life?

Many thanks in advance,

Dave
KD7DD

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10037. Re: Help....Something Other Than Shottkey Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:08:16 UTC
From: Clif
Topic: 10027 Message: 10037

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off,
good audio output with ALC reading adjusted by mic gain. When I push
the proc button, I show deflection on the meter set to comp and the
comp level works, but no output and no ALC indication. I found what
looks like a broken connection behind the front panel ...It is the
shields of the 3 white wires to the processor switch ganged together
with the ends covered in heatshrink. It looks like it should be
connected to the rear of the Proc button but there is no evidence of a
wire having broken off there.
>
> I don't use the processor that often but it annoys me it isn't
working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>

My money is on the switch itself. For some unknown reason the audio is
routed thru the switch. They didn't use dioe switching. The switches
if not regularly used tend to not make contact. Try cycling the switch
rapidly for 40-50 times and see what happens.

Clif

10038. RE: [TS-520_820_530_830] 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:09:18 UTC
From: John Harp
Topic: 9948 Message: 10038

Not true in the case of the 6146's in the PA boxes of these radios. The driver tube is not a problem. Neutralization is eay too.

Walter Milton <wmilton@...> wrote: Walt,

Correct me if I am wrong but my impression was that if you are replacing old tubes with the same manufacture that you did not have to reneutralize. Is this true or not?

The other Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Sunday, October 08, 2006 5:48 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 830 Neutralization

Bob:

We like to keep this as confusing as possible just so we can keep you on your toes.Hi (not really, but I know sometimes it must seem that way to you all. I'm sorry for that but we try.)

On the TS-830 there is no hole in the top of the final section. TC-1 is the capacitor that you need access to. It is pictured on the top diagram on page 31 of your instruction manual for the TS-830.

The TS-820 has a hole in the top for access. The cover must be on to do this. It makes this process miserable. Be thankful that you are neutralizing a TS-830.

Vy 73, Walt N9WB

----- Original Message -----
From: nasa820
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, October 07, 2006 4:43 PM
Subject: [TS-520_820_530_830] 830 Neutralization

I've been running my 830S for the last couple of years, and really like this xmtr. When my transmit power went to zero recently, I found the output tubes had gone south. Not a problem; I have three sets of

matched replacements. I installed a new set of GE 6146Bs. The tubes lit up, and I was able to tune up readily into a dummy load. Now, on to the neutralization process. Or was it?

The Operating Manual says "adjust TC1, reached through the adjustment hole in the top of the final section.)" No hole in the top of the cage (assume that's what they mean by the final section.) Two holes in the side - neither appear to go to anything like what I'm looking for. Service Manual shows TC1 in the middle of the PLL Unit - bottom of the xcvr. Yup, found that small adjustable cap. Just adjacent to T7-T12. Is that the puppy I'm supposed to be cranking on?

I've read all the correspondence on this site as well as all the help files, etc etc. I can't seem to correlate the "I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover." comments with what I'm seeing. What hole? What cover? If I have the right TC1, no access problem at all. Hmmmmm.....

Sorry if this is obvious to everyone else; sometimes the "little grey cells are not working."

Bob
W7DDD

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10039. Re: [TS-520_820_530_830] Suppliers for 6146 tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:12:04 UTC
From: John Harp
Topic: 9961 Message: 10039

That will work for one. You can also do a search engine for 6146 tubes and find a number of places that sell 6146 tubes. E-Bay I've bought tubes from before also.

w7cth <w7cth@...> wrote: Can you guys give me the suppliers for the 6146 tubes.
I was told rfparts was a good place.
Chris..

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10040. Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottkey Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:14:48 UTC
From: John Harp
Topic: 10027 Message: 10040

Clif are you running the MC-50 mic?

Clif <clif@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off,
good audio output with ALC reading adjusted by mic gain. When I push
the proc button, I show deflection on the meter set to comp and the
comp level works, but no output and no ALC indication. I found what
looks like a broken connection behind the front panel ...It is the
shields of the 3 white wires to the processor switch ganged together
with the ends covered in heatshrink. It looks like it should be
connected to the rear of the Proc button but there is no evidence of a
wire having broken off there.
>
> I don't use the processor that often but it annoys me it isn't
working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>

My money is on the switch itself. For some unknown reason the audio is
routed thru the switch. They didn't use dioe switching. The switches
if not regularly used tend to not make contact. Try cycling the switch
rapidly for 40-50 times and see what happens.

Clif

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10041. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:17:29 UTC
From: Clif
Topic: 9995 Message: 10041

I use the method outlined in the ARRL Test Procedure Manual.

Basically it is the signal level that is 3db above the noise floor. It
makes for a repeatable test for direct comparision between radios.

To answer the other question about the 765. I don't remember what I
measured on the 765. I haven't seen enough of them to get a decent
sample. I do know in the Kenwood line until they came out with DSP
none of the radios would compare to the 830 for receive sensitivity.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "w5mhl" <w5mhl@...> wrote:
>
> Clif, I agree and hope to make some quantitative measurements when I
> replace the diodes. I am not sure what is meant by noise floor, but
> some measure of sensitivity is needed. This of course will depend on
> the receiver bandwidth and how the MDS is defined. A -138 to -140
> should be adequate for the HF bands.
>
> Jim
> --- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@> wrote:
> >
> > Has anybody happened to do a before and after reading on the Minimum
> > Discernable Signal (MDS)?? I take readings by ear with a huge grain
> of
> > salt... Most 830's I have seen are in the -138-140 range stock.
> >
> > Clif
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Thanks for the Results Barry.
> > > That makes four of us that agree on this so far.
> > > I was Impressed with the results as soon as I turned the radio on
> > > after making the Mod, especially for the Weak signal stations.
> > > We should make a list of the diodes to swap out on each of the
> > > models 520 / 820 and the 530 / 830. I know which ones on the 820
> and
> > > 830, but I haven't had time to look what the numbers are on the
> 520
> > > and 530.
> > > I'll look them up later today and post them so everyone will have
> that
> > > info for their respective rig.

> > >
> > > 73,
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com,
> "digs4ruff" <digs4ruff@>
> > > wrote:
> > > >
> > > > I have just completed swapping out all 16 diodes on the IF
> board that
> > > > Gordon refers to.
> > > > One word will sum up the results. WOW!!!!
> > > > Of course this is a subjective measurement based solely on my
> hearing
> > > > ability. Either the 20M band opened up this afterneoon or we
> have
> > done
> > > > something really good to this 820S.
> > > > Barry in Vancouver
> > > > VA7GEM
> > > >
> > > >
> > >
>

10042. Re: [TS-520_820_530_830] station question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:22:43 UTC
From: John Harp
Topic: 9987 Message: 10042

Richard, the SP-820 doesn't go with the 830 as I recall. However there's a chance you could find one on E-Bay if you watch for a while. They're cheap to purchase. You can for the meantime use the 830 without the matching speaker as it has one built in the top cover of the unit.
Believe it or not I used to use a pve plumming elbow on my first one to refocus the sound from the top toward me. Little trick I learned from another ham who did the same thing.

Richard Fox <rfox945289@...> wrote:
I know this is probably more than a little silly to be asking but i am
fairly new. I was reciently given a TS-830S with all the accessories
except the SM-220, and was concerned all the documentation i have seen
says the matching speaker is the sp-230 but I have an SP-820? is the
sp-820 suppose to go with the TS-830 or some other kenwood rig? if
anyone would like to trade for the sp-230 i would be more then willing
to do that.

thanks for the info

richard KI4GCX

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10043. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:31:36 UTC
From: John Harp
Topic: 9948 Message: 10043

Yes, and if you look at the pictures a little more carefully you'll see the unit is turned around. Don't fell bad I found that too.

Gordon <n6wk@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> I've been running my 830S for the last couple of years, and really
> like this xmtr. When my transmit power went to zero recently, I found
> the output tubes had gone south. Not a problem; I have three sets of
> matched replacements. I installed a new set of GE 6146Bs. The tubes
> lit up, and I was able to tune up readily into a dummy load. Now, on
> to the neutralization process. Or was it?
>
> The Operating Manual says "adjust TC1, reached through the adjustment
> hole in the top of the final section.)" No hole in the top of the
> cage (assume that's what they mean by the final section.) Two holes
> in the side - neither appear to go to anything like what I'm looking
> for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> T7-T12. Is that the puppy I'm supposed to be cranking on?
>
>
> Bob
> W7DDD
>

NO, THAT IS NOT THE ONE !!

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10044. Re: [TS-520_820_530_830] More info about TS-820 In Sweden.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 00:36:41 UTC
From: John Harp
Topic: 9974 Message: 10044

Well thank You and see you on the air.

sm0wid <sm0wid@...> wrote:
Thanks to KA3DPW , WB8UHZ , K4AXF.

The rig is a TS-820 nothing else.

I modified a Leson TX-232 microphone for this purpose and hopefully it will sound good.

I have changed all tubes to original one´s, I have had the tubes at my company for a while, lucky I didn´t sell them.

I also had to change the Tx-relay, I have American Zettler brandnew 12V relay different types which fits alright.

The RF power is aprox. 120 W "all ower" according to my PM330 dummyload after retuned.

I also had to renovate the VFO plastic/metalic wheel because it was stuck, a real finemechanical work with magnifying glass, file and surgical knife.

Had no problems with selectors, switches or potentiometers.

The Rx was quit alright exept the 40m who was tuned up using my TDS-220 , SG Marconi TF2015, Counter GFC-8100, and Nordmende SRG 389 (TG).

There is also a modification with a switch to the Rx close to the MF-filters, and I´m not sure if it is for supression or something, I´ll check it out later.

At this moment the "rig" is connected to a 10m dipolantenn horizontal South to North and also a vertical AH-7000 is available.

This week, hopefully, my specialdesigned L-antenn 40by40 will be mounted up on the roof West by East if the janitor doesn´t mind.

At this moment there is a 17 element uhf antenn, 10m dipol, Comet 250 uhf/vhf, AH-7000 discone and a Avanti 800-1300 Mhz commercial antenn approximately 75 meter over the sea. I got a real nice view over the capitol of Sweden, Stockholm up on the roof. The only problem is all the cable´s, because the lenght is 40 meter down to the apartment.

I have been working with "radios" since 1974 but I waited to take my licens until my friends "pushed me" to do it. I got 12 Hours to prepare and it was easy.

I´ve got a list of "tubes used and new" out on the Internet which is
for sale real cheap. If it say´s "sålda" then it´s sold out.

The link is as follows:

http://www.letalokalt.se/Portals/0/InfoFiler/133844/aca36c7f-609b-
4696-a3dc-0189af6aae23.doc

DE / SMØWID

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10045. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 01:38:14 UTC
From: Gordon
Topic: 9948 Message: 10045

John,
I don't understand what you just said. What is turned around ??

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Yes, and if you look at the pictures a little more carefully you'll
see the unit is turned around. Don't fell bad I found that too.
>
> Gordon <n6wk@...> wrote: --- In
TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@> wrote:
> >
> > I've been running my 830S for the last couple of years, and really
> > like this xmtr. When my transmit power went to zero recently, I found
> > the output tubes had gone south. Not a problem; I have three sets of
> > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > lit up, and I was able to tune up readily into a dummy load. Now, on
> > to the neutralization process. Or was it?
> >
> > The Operating Manual says "adjust TC1, reached through the adjustment
> > hole in the top of the final section.)" No hole in the top of the
> > cage (assume that's what they mean by the final section.) Two holes
> > in the side - neither appear to go to anything like what I'm looking
> > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > T7-T12. Is that the puppy I'm supposed to be cranking on?
> >
> >
> > Bob
> > W7DDD
> >
>
> NO, THAT IS NOT THE ONE !!
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>

> [Non-text portions of this message have been removed]
>

10046. Re: [TS-520_820_530_830] Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 01:46:43 UTC
From: Dennis Windle
Topic: 9995 Message: 10046

Barry;
The TS-830 mod to upgrade the PD to the shottky diodes says to add a 100 Ohm resistor, did you add any resistors or just simply swap out the diodes in you TS-820 ?

D.Windle

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 09, 2006 2:37 PM
Subject: [TS-520_820_530_830] Schottky Diodes UpDate

I have just completed swapping out all 16 diodes on the IF board that Gordon refers to.
One word will sum up the results. WOW!!!!
Of course this is a subjective measurement based solely on my hearing ability. Either the 20M band opened up this afterneoon or we have done something really good to this 820S.
Barry in Vancouver
VA7GEM

[Non-text portions of this message have been removed]

10047. YK-88SN-1 Filter.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 05:36:18 UTC
From: Bob M
Topic: 10047 Message: 10047

G'day All,

just another quick question. I'm looking for a YK-88SN
for my TS-530s. I've been offered a YK-88SN-1 which I do
not recall seeing before.

I'm not sure if it will suit the 530s so can someone please advise
me if it's OK.

I'd consider any the the group may offer as well. I'm down under in
Australia so I need to consider postage as well.

Thanks and regards

Bob M. VK4HAY

10048. Re: [TS-520_820_530_830] YK-88SN-1 Filter.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 05:55:55 UTC
From: Rick KC0HH
Topic: 10047 Message: 10048

Hi Bob,

The -1 suffix means it is mounted on a plug in board to install in newer Kenwoods such as TS-850, 950, 940 etc. The SSB filter itself is identical but you would have to un-solder from the mounting board to install in your 530S....The newer CW filters such as a YK-88S-1 have a different center frequency and do not work very well in the older hybrid Kenwoods. There are several YK-88SN filters for sale here on qth.com and E-Bay..They only weigh a couple of ounces so postage from the States wouldn't be more than a few dollars.

73' Rick KC0HH
Lamar, Colorado

Bob M <baysideq@...> wrote: G'day All,

just another quick question. I'm looking for a YK-88SN
for my TS-530s. I've been offered a YK-88SN-1 which I do
not recall seeing before.

I'm not sure if it will suit the 530s so can someone please advise
me if it's OK.

I'd consider any the the group may offer as well. I'm down under in
Australia so I need to consider postage as well.

Thanks and regards

Bob M. VK4HAY

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10049. Re: [TS-520_820_530_830] station question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 09:53:16 UTC
From: Dave and Loraine
Topic: 9987 Message: 10049

Nice one John!
With my hearing, the PVC elbow raises the highs and sounds great.
Analogue alternative to DSP..
73 Dave F4EYK

10050. Re: [TS-520_820_530_830] 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 13:18:37 UTC
From: n9wb
Topic: 9948 Message: 10050

KA2NJF Walt:

That is not necessarily true. The best way is to go to 28.5 (for the 530) and tune it up on CW. Then reduce the power with the carrier control to about 75 watts. Re-peak the tune and load for maximum and observe the dip and the output. If the output peaks when the Ic is at it's dip, it should be OK. But if the dip and output peak do not coincide, the neutralization needs touching up. Slightly nudge the neutralization capacitor until you reach this condition. As I remember, the neutralization capacitor is easier to access on the 830 than the 820.

N9WB Walt

----- Original Message -----
From: Walter Milton
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 09, 2006 9:03 AM
Subject: RE: [TS-520_820_530_830] 830 Neutralization

Walt,

Correct me if I am wrong but my impression was that if you are replacing old tubes with the same manufacture that you did not have to reneutralize. Is this true or not?

The other Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Sunday, October 08, 2006 5:48 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 830 Neutralization

Bob:

We like to keep this as confusing as possible just so we can keep you on your toes.Hi (not really, but I know sometimes it must seem that way to you all. I'm sorry for that but we try.)

On the TS-830 there is no hole in the top of the final section. TC-1 is the capacitor that you need access to. It is pictured on the top diagram on page 31 of your instruction manual for the TS-830.

The TS-820 has a hole in the top for access. The cover must be on to do this. It makes this process miserable. Be thankful that you are neutralizing a TS-830.

Vy 73, Walt N9WB

----- Original Message -----
From: nasa820
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, October 07, 2006 4:43 PM
Subject: [TS-520_820_530_830] 830 Neutralization

I've been running my 830S for the last couple of years, and really like this xmtr. When my transmit power went to zero recently, I found the output tubes had gone south. Not a problem; I have three sets of matched replacements. I installed a new set of GE 6146Bs. The tubes lit up, and I was able to tune up readily into a dummy load. Now, on to the neutralization process. Or was it?

The Operating Manual says "adjust TC1, reached through the adjustment hole in the top of the final section.)" No hole in the top of the cage (assume that's what they mean by the final section.) Two holes in the side - neither appear to go to anything like what I'm looking for. Service Manual shows TC1 in the middle of the PLL Unit - bottom of the xcvr. Yup, found that small adjustable cap. Just adjacent to T7-T12. Is that the puppy I'm supposed to be cranking on?

I've read all the correspondence on this site as well as all the help files, etc etc. I can't seem to correlate the "I shrink 2 pieces of shrink tubing, (double thickness) on the screwdriver shaft so it will not touch the edges of the hole in the cover." comments with what I'm seeing. What hole? What cover? If I have the right TC1, no access problem at all. Hmmmmm.....

Sorry if this is obvious to everyone else; sometimes the "little grey cells are not working."

Bob
W7DDD

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.407 / Virus Database: 268.13.0/465 - Release Date: 10/6/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.1/470 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10051. Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottkey Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 12:54:27 UTC
From: Chris HEmbree
Topic: 10027 Message: 10051

I am not sure if this has anything to do with your problem. When I picked up my 830s about a week ago. My Proc did not work,The radio was used most of the time for CW. I worked the Proc button on and off and it started to work. My problem is that it needs a good cleaning or a new switch.

Chris W7CTH

John Harp <ka3dpw@...> wrote: Clif are you running the MC-50 mic?

Clif <clif@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off,
good audio output with ALC reading adjusted by mic gain. When I push
the proc button, I show deflection on the meter set to comp and the
comp level works, but no output and no ALC indication. I found what
looks like a broken connection behind the front panel ...It is the
shields of the 3 white wires to the processor switch ganged together
with the ends covered in heatshrink. It looks like it should be
connected to the rear of the Proc button but there is no evidence of a
wire having broken off there.
>
> I don't use the processor that often but it annoys me it isn't
working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>

My money is on the switch itself. For some unknown reason the audio is routed thru the switch. They didn't use dioe switching. The switches if not regularly used tend to not make contact. Try cycling the switch rapidly for 40-50 times and see what happens.

Clif

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10052. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 13:25:57 UTC
From: digs4ruff
Topic: 9995 Message: 10052

I must confess I didn't do the resistor. Will have to revisit this
to see if it is really required on the 820S. Any opinions Gordon?
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
<windled@...> wrote:
>
> Barry;
> The TS-830 mod to upgrade the PD to the shottky diodes
says to add a 100 Ohm resistor, did you add any resistors or just
simply swap out the diodes in you TS-820 ?
>
> D.Windle
>
> ----- Original Message -----
> From: digs4ruff
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 09, 2006 2:37 PM
> Subject: [TS-520_820_530_830] Schottky Diodes UpDate
>
>
> I have just completed swapping out all 16 diodes on the IF board
that
> Gordon refers to.
> One word will sum up the results. WOW!!!!
> Of course this is a subjective measurement based solely on my
hearing
> ability. Either the 20M band opened up this afterneoon or we
have done
> something really good to this 820S.
> Barry in Vancouver
> VA7GEM
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

10053. Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 13:26:53 UTC
From: Larry N. Fraysier
Topic: 10053 Message: 10053

Hi,
Is there a common substitute for a 2SA562 transistor? Is there an online database for semiconductor substitutes? Trying to fix a 530sp that won't transmit.

Thanks,
Larry - N4HIT

10054. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 14:39:56 UTC
From: n9wb
Topic: 9948 Message: 10054

If your dip and output peak coincide around 28.5, don't worry about it.
If you feed the rig output into the 29 MHz scope at 28.5 SCREEN GRID OFF! It is likely that you can still see the signal. But I believe that the peak/dip method is really the most accurate.

Vy 73, Walt N9WB

----- Original Message -----
From: nasa820
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 09, 2006 1:43 PM
Subject: [TS-520_820_530_830] Re: 830 Neutralization

Neutralization Update from W7DDD.

Well, with the excellent help from this group, I found the neutralization trim screw hiding beneath a wire bundle. Never called out in my Manual. So, on to the job. I checked and reset the bias and checked the driver tube per K0ZL. All OK. The xmtr tuned up just fine into a dummy load. Since my oscilloscope is only good for 20Mhz, and I don't have a sensitive RF millivoltmeter, I went down two of N9WB alternate routes.

Using a "cheap" CB SWR meter, I couldn't get any reading even with the gain knob turned up all the way. Then I installed a Swan WM-200 wattmeter and, with the SG switch ON, used the power peak/current dip method he mentions. They seemed to be bang on.

So I hooked her up and made half a dozen contacts on 40 and 20 meters. All gave me good audio reports. Power output on my Array Solutions PowerMaster Wattmeter was running 100-115 watts. I checked into my nets this morning (where they know my voice), and they said the audio was great.

Now, I've never adjusted this trim cap that I looked so hard for! I've thought of doing a neutralization using my oscilloscope down on 20 meters. But, I've also thought of 'declaring victory' and moving on.

Comments?

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> Whew, I think we're getting somewhere, Troy! My Manual has the
> picture with no such trim callout. And I found a screw under all

> those wires. (I sent a jpg to Troy.) So now I think I can move on
> and try to screw up the neutralization. Thanks for your help. It
> really made a big difference!
>
> 73,
>
> Bob
>
> --- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@> wrote:
> >
> > Bob, I just sent a scan of the page from my manual to your email
> address on QRZ. Hope it will help.
> > 73,
> > Troy, W6HV
> > ----- Original Message -----
> > From: nasa820<mailto:nasa820@>
> > To:
>
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
>
> > Sent: Sunday, October 08, 2006 12:21 PM
> > Subject: [TS-520_820_530_830] Re: 830 Neutralization
> >
> >
> > Thanks to everyone for the info and advice. At this end, the little
> > grey cells are still struggling.-----
> > On Page 10 of the Service Manual (input from W6HV), the lower
picture
> > shows a view of the bottom of the unit. The Final Unit is in the
> > upper right hand section. Kenwood calls it the Final Unit. It is
> > commonly called the Final Cage by those in the group - I'm sure
we're
> > talking the same thing. Unfortunately, no caption "TC1
Neutralization"
> > as noted by W6HV (or Gordon.) ----
> >
> > [Non-text portions of this message have been removed]
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.1/470 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10055. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 14:43:54 UTC
From: n9wb
Topic: 9995 Message: 10055

Yes, N9WB

----- Original Message -----
From: harrycwleung
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 09, 2006 1:52 PM
Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate

Hi Barry and the Group,

Do you think that the diodes swapping is good for TS520S also?

10056. Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottky Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 13:45:03 UTC
From: Rick KC0HH
Topic: 10027 Message: 10056

Hi Chris,

The switch checks out ok with an ohm meter but I guess its possible that it will not pass audio frequencies. The comp meter works fine and the comp level adjusts the compression. But no ALC indication and no output. If the schematic is correct, the audio signal goes from the comp level pot directly to the proc switch. I guess I am taking an 830S apart again.... Thanks

73' Rick KC0HH
Lamar, Colorado

Chris HEmbree <w7cth@...> wrote: I am not sure if this has anything to do with your problem. When I picked up my 830s about a week ago. My Proc did not work,The radio was used most of the time for CW. I worked the Proc button on and off and it started to work. My problem is that it needs a good cleaning or a new switch.

Chris W7CTH

>
> My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off,
good audio output with ALC reading adjusted by mic gain. When I push
the proc button, I show deflection on the meter set to comp and the
comp level works, but no output and no ALC indication. I found what
looks like a broken connection behind the front panel ...It is the
shields of the 3 white wires to the processor switch ganged together
with the ends covered in heatshrink. It looks like it should be
connected to the rear of the Proc button but there is no evidence of a
wire having broken off there.
>
> I don't use the processor that often but it annoys me it isn't
working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>

My money is on the switch itself. For some unknown reason the audio is routed thru the switch. They didn't use dioe switching. The switches if not regularly used tend to not make contact. Try cycling the switch rapidly for 40-50 times and see what happens.

Clif

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10057. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 15:13:26 UTC
From: n9wb
Topic: 10057 Message: 10057

TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

10058. Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottky Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 15:15:04 UTC
From: Bill Scurlock
Topic: 10027 Message: 10058

Rick,

I "second" Walt's comments.

The first thing I do when I start working on a Kenwood Hybrid I buy is to unplug each connector on each board, treat the connector and the pins on the board with DeOxit, and then carefully reconnect each connector. Then use DeOxit on all controls and switches including the band switch. Then at least you may be able to avoid some troubleshooting issues. What's left will usually be real problems you get to find.

Have fun.

73, Bill, K5GCW
----- Original Message -----
From: Rick KC0HH
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 8:45 AM
Subject: Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottky Diodes.....

Hi Chris,

The switch checks out ok with an ohm meter but I guess its possible that it will not pass audio frequencies. The comp meter works fine and the comp level adjusts the compression. But no ALC indication and no output. If the schematic is correct, the audio signal goes from the comp level pot directly to the proc switch. I guess I am taking an 830S apart again.... Thanks

73' Rick KC0HH
Lamar, Colorado

Chris HEmbree <w7cth@...> wrote: I am not sure if this has anything to do with your problem. When I picked up my 830s about a week ago. My Proc did not work,The radio was used most of the time for CW. I worked the Proc button on and off and it started to work. My problem is that it needs a good cleaning or a new switch.

Chris W7CTH

>
> My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off,
good audio output with ALC reading adjusted by mic gain. When I push
the proc button, I show deflection on the meter set to comp and the
comp level works, but no output and no ALC indication. I found what
looks like a broken connection behind the front panel ...It is the
shields of the 3 white wires to the processor switch ganged together
with the ends covered in heatshrink. It looks like it should be

connected to the rear of the Proc button but there is no evidence of a
wire having broken off there.
>
> I don't use the processor that often but it annoys me it isn't
working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>

My money is on the switch itself. For some unknown reason the audio is
routed thru the switch. They didn't use dioe switching. The switches
if not regularly used tend to not make contact. Try cycling the switch
rapidly for 40-50 times and see what happens.

Clif

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10059. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 15:36:21 UTC
From: Chris HEmbree
Topic: 10057 Message: 10059

Were do you buy Craig De-Oxit?

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10060. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 15:49:33 UTC
From: Chris HEmbree
Topic: 10057 Message: 10060

I just looked at the web site.I don't think I am every going to get my radio on the air with all the stuff that is on order for it.
Chris.

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10061. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:14:13 UTC
From: n9wb
Topic: 10057 Message: 10061

Try Radio shack. If no results, there are other sources. Another good switch cleaner is Blue Shower available at ACE Hardware. It is not quite as good as De Oxit but will probably work. I sometimes use rubbing alcohol in a pinch.

If this does not fix the problem, remove the IF board. Look over it with a magnifying glass. Resolder any connections that look bad. Look especially around the plugs where the wires from the processor switch plug into for bad connections. When resoldering, be careful not to get solder bridges connecting traces that are not intended to be connected.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 10:36 AM
Subject: Re: [TS-520_820_530_830] Re: 830 Processor switch

Were do you buy Craig De-Oxit?

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.1/470 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10062. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 16:18:31 UTC
From: Rick KC0HH
Topic: 10057 Message: 10062

Hi Chris,

I have seen it at Radio Shack...

Well, it is not the Proc switch .... It is just going to have to annoy me for a while as I don't have time to trouble shoot the I.F. board..Thanks for all the input guys.

73'
Rick KC0HH

Chris HEmbree <w7cth@...> wrote: Were do you buy Craig De-Oxit?

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10063. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 16:16:12 UTC
From: Bill Scurlock
Topic: 10057 Message: 10063

Chris,

I got my DeOxit at Fry's Electronics in Dallas. But, there are probably many sources that some others in this group can tell you about.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 10:36 AM
Subject: Re: [TS-520_820_530_830] Re: 830 Processor switch

Were do you buy Craig De-Oxit?

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10064. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 16:32:39 UTC
From: Bill Scurlock
Topic: 10057 Message: 10064

Chris,

With this "group", as long as you keep asking questions about what you are experiencing with the radio, someone here will try to help you. Don't give up. They've guided me through problems with 4 radios during the last 9 months.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 10:49 AM
Subject: Re: [TS-520_820_530_830] Re: 830 Processor switch

I just looked at the web site.I don't think I am every going to get my radio on the air with all the stuff that is on order for it.
Chris.

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10065. Re: [TS-520_820_530_830] Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:02:57 UTC
From: Ruben Echevarria
Topic: 10053 Message: 10065

NTE290A sub for 2sa562 ..... 73 de KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Larry N. Fraysier <fraysier@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 9:26:53 AM
Subject: [TS-520_820_530_830] Transistor sub

Hi,
Is there a common substitute for a 2SA562 transistor? Is there an
online database for semiconductor substitutes? Trying to fix a 530sp
that won't transmit.

Thanks,
Larry - N4HIT

[Non-text portions of this message have been removed]

10066. VFO 520 on ebay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:03:27 UTC
From: Ken Gunton
Topic: 10027 Message: 10066

I just saw this buy-it-now
listing on ebay. Seems to be
a good price.

FYI

http://cgi.ebay.com/Kenwood-VFO-520-External-VFO-For-TS-520_W0QQitemZ180035840488QQihZ008QQcategoryZ48702QQcmdZViewItem

If you have word wrap on, you may have to copy
and paste the URL.

Ken,
W8ASA

10067. Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottky Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:16:48 UTC
From: N6WK
Topic: 10027 Message: 10067

I will "third" that recommendation. It is the first thing I do also
when repairing a rig.
It makes trouble shooting less difficult.

73,
Gordon
N6WK

Bill Scurlock wrote:

> Rick,
>
> I "second" Walt's comments.
>
> The first thing I do when I start working on a Kenwood Hybrid I buy is
> to unplug each connector on each board, treat the connector and the
> pins on the board with DeOxit, and then carefully reconnect each
> connector. Then use DeOxit on all controls and switches including the
> band switch. Then at least you may be able to avoid some
> troubleshooting issues. What's left will usually be real problems you
> get to find.
>
> Have fun.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Rick KC0HH
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, October 10, 2006 8:45 AM
> Subject: Re: [TS-520_820_530_830] Re: Help....Something Other Than
> Shottky Diodes.....
>
> Hi Chris,
>
> The switch checks out ok with an ohm meter but I guess its possible
> that it will not pass audio frequencies. The comp meter works fine and
> the comp level adjusts the compression. But no ALC indication and no
> output. If the schematic is correct, the audio signal goes from the
> comp level pot directly to the proc switch. I guess I am taking an
> 830S apart again.... Thanks
>
> 73' Rick KC0HH
> Lamar, Colorado

>
> Chris HEmbree <w7cth@... <mailto:w7cth%40yahoo.com>> wrote: I am
> not sure if this has anything to do with your problem. When I picked
> up my 830s about a week ago. My Proc did not work,The radio was used
> most of the time for CW. I worked the Proc button on and off and it
> started to work. My problem is that it needs a good cleaning or a new
> switch.
>
> Chris W7CTH
>
> >
> > My processor in the 830S I use quit working a while back.
> Day off, so I thought I would look at things. With Proc turned off,
> good audio output with ALC reading adjusted by mic gain. When I push
> the proc button, I show deflection on the meter set to comp and the
> comp level works, but no output and no ALC indication. I found what
> looks like a broken connection behind the front panel ...It is the
> shields of the 3 white wires to the processor switch ganged together
> with the ends covered in heatshrink. It looks like it should be
> connected to the rear of the Proc button but there is no evidence of a
> wire having broken off there.
> >
> > I don't use the processor that often but it annoys me it isn't
> working. I have been staring at schematics until I am cross eyed...
> Anyone out there have their top cover off their 830S
> >
> > 73' Rick KC0HH
> >
>
> My money is on the switch itself. For some unknown reason the audio is
> routed thru the switch. They didn't use dioe switching. The switches
> if not regularly used tend to not make contact. Try cycling the switch
> rapidly for 40-50 times and see what happens.
>
> Clif
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
> ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
> ---
> All-new Yahoo! Mail - Fire up a more powerful email and get things
> done faster.

>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10068. Deoxit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:23:15 UTC
From: David Rust
Topic: 5544 Message: 10068

I see there are several variations of Deoxit on Ebay. DP5, and Deoxit it in a pump spray can and also in a tube. Which one do I want?
dlr

[Non-text portions of this message have been removed]

10069. Re: [TS-520_820_530_830] Deoxit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:52:32 UTC
From: N6WK
Topic: 5544 Message: 10069

I am using the DeOxit D5 in a spray can. The Nozzle has 3 different
spray settings by rotating the nozzle.

Gordon
N6WK

David Rust wrote:

> I see there are several variations of Deoxit on Ebay. DP5, and Deoxit
> it in a pump spray can and also in a tube. Which one do I want?
> dlr
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10070. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 17:41:14 UTC
From: Chris HEmbree
Topic: 10057 Message: 10070

I have some on its way from California.
Be here in 3 days..
Chris..

Bill Scurlock <k5gcw@...> wrote: Chris,

I got my DeOxit at Fry's Electronics in Dallas. But, there are probably many sources that some others in this group can tell you about.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 10:36 AM
Subject: Re: [TS-520_820_530_830] Re: 830 Processor switch

Were do you buy Craig De-Oxit?

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10071. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 18:12:12 UTC
From: Chris HEmbree
Topic: 10057 Message: 10071

It's ok. I only said that my radio will off the air for some time is because I have a list of things I need to do to it. with all the Mods and stuff. The list keeps getting bigger. Not because of the lack of help.

Chris..

Bill Scurlock <k5gcw@...> wrote: Chris,

With this "group", as long as you keep asking questions about what you are experiencing with the radio, someone here will try to help you. Don't give up. They've guided me through problems with 4 radios during the last 9 months.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 10:49 AM
Subject: Re: [TS-520_820_530_830] Re: 830 Processor switch

I just looked at the web site.I don't think I am every going to get my radio on the air with all the stuff that is on order for it.
Chris.

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10072. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 18:15:19 UTC
From: Gordon
Topic: 9995 Message: 10072

Hi Barry,
I didn't try the Mod without the Resistor. I did both the Rsistor
and the 4 diodes at the same time.
According To Richard Measures (AG6K) article on Circuit Improvements
for the TS-830, he states that the lack of the resistor allows the IF
signal to Modulate the Local Ocsillator which adds some distortion.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> I must confess I didn't do the resistor. Will have to revisit this
> to see if it is really required on the 820S. Any opinions Gordon?
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
> <windled@> wrote:
> >
> > Barry;
> > The TS-830 mod to upgrade the PD to the shottky diodes
> says to add a 100 Ohm resistor, did you add any resistors or just
> simply swap out the diodes in you TS-820 ?
> >
> > D.Windle
> >
> > ----- Original Message -----
> > From: digs4ruff
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, October 09, 2006 2:37 PM
> > Subject: [TS-520_820_530_830] Schottky Diodes UpDate
> >
> >
> > I have just completed swapping out all 16 diodes on the IF board
> that
> > Gordon refers to.
> > One word will sum up the results. WOW!!!!
> > Of course this is a subjective measurement based solely on my
> hearing
> > ability. Either the 20M band opened up this afterneoon or we
> have done
> > something really good to this 820S.

> > Barry in Vancouver
> > VA7GEM
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

10073. Re: Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 18:22:21 UTC
From: Gordon
Topic: 10053 Message: 10073

Hi Larry,
Yes NTE has an on-line database for crossing components. They also
have a downloadable software to install on your computer to do it.
it is here:
http://www.nteinc.com/

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Larry N. Fraysier"
<fraysier@...> wrote:
>
> Hi,
> Is there a common substitute for a 2SA562 transistor? Is there an
> online database for semiconductor substitutes? Trying to fix a 530sp
> that won't transmit.
>
> Thanks,
> Larry - N4HIT
>

10074. Re: Deoxit D5P, D5, etc..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 21:15:28 UTC
From: james27613
Topic: 5544 Message: 10074

hi,

the D5P is in a pump spray can, so no hazmat
ups fees if you order it from mcm electronics.

the D5 is aerosol can and has hazmat fee and must
ship ground carrier.

Deoxit also comes in small 5ml bottles with a
needle applicator tip.

www.caig.com is the manufacturer.

when you are inside the radio, be sure to
clean the tx/rx relay too, just a litte deoxit
on a business card and pass the card between the
contacts, all you need to do (courtesy of Pete w2cwa).

73 james ke4drn

10075. RE: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 21:26:04 UTC
From: Walter Milton
Topic: 9948 Message: 10075

Walt,

I replaced a set of Sylvania (ECG) 6146B's with the same and the dip an max power on my TS-830 was so close that I did not have to touch the neutralization capacitor. Now if I have to use GE 6146B's or 6146W's that is a different story.

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Tuesday, October 10, 2006 10:40 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization

If your dip and output peak coincide around 28.5, don't worry about it. If you feed the rig output into the 29 MHz scope at 28.5 SCREEN GRID OFF! It is likely that you can still see the signal. But I believe that the peak/dip method is really the most accurate.

Vy 73, Walt N9WB

----- Original Message -----
From: nasa820
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Monday, October 09, 2006 1:43 PM
Subject: [TS-520_820_530_830] Re: 830 Neutralization

Neutralization Update from W7DDD.

Well, with the excellent help from this group, I found the neutralization trim screw hiding beneath a wire bundle. Never called out in my Manual. So, on to the job. I checked and reset the bias and checked the driver tube per K0ZL. All OK. The xmtr tuned up just fine into a dummy load. Since my oscilloscope is only good for 20Mhz, and I don't have a sensitive RF millivoltmeter, I went down two of N9WB alternate routes.

Using a "cheap" CB SWR meter, I couldn't get any reading even with the gain knob turned up all the way. Then I installed a Swan WM-200 wattmeter and, with the SG switch ON, used the power peak/current dip

method he mentions. They seemed to be bang on.

So I hooked her up and made half a dozen contacts on 40 and 20 meters. All gave me good audio reports. Power output on my Array Solutions PowerMaster Wattmeter was running 100-115 watts. I checked into my nets this morning (where they know my voice), and they said the audio was great.

Now, I've never adjusted this trim cap that I looked so hard for! I've thought of doing a neutralization using my oscilloscope down on 20 meters. But, I've also thought of 'declaring victory' and moving on.

Comments?

Bob
W7DDD

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "nasa820" <nasa820@...> wrote:
>
> Whew, I think we're getting somewhere, Troy! My Manual has the
> picture with no such trim callout. And I found a screw under all
> those wires. (I sent a jpg to Troy.) So now I think I can move on
> and try to screw up the neutralization. Thanks for your help. It
> really made a big difference!
>
> 73,
>
> Bob
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Troy, W6HV" <w6hv@> wrote:
> >
> > Bob, I just sent a scan of the page from my manual to your email
> address on QRZ. Hope it will help.
> > 73,
> > Troy, W6HV
> > ----- Original Message -----
> > From: nasa820<mailto:nasa820@>
> > To:
>
TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:TS-520_820_530_
<mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com>
>
> > Sent: Sunday, October 08, 2006 12:21 PM
> > Subject: [TS-520_820_530_830] Re: 830 Neutralization
> >
> >
> > Thanks to everyone for the info and advice. At this end, the little
> > grey cells are still struggling.-----

> > On Page 10 of the Service Manual (input from W6HV), the lower
picture
> > shows a view of the bottom of the unit. The Final Unit is in the
> > upper right hand section. Kenwood calls it the Final Unit. It is
> > commonly called the Final Cage by those in the group - I'm sure
we're
> > talking the same thing. Unfortunately, no caption "TC1
Neutralization"
> > as noted by W6HV (or Gordon.) ----
> >
> > [Non-text portions of this message have been removed]
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.1/470 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10076. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 21:24:27 UTC
From: Clif
Topic: 9948 Message: 10076

And that newfangled thing you got there will never replace my horse young man....

Clif (GRIN)

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> If your dip and output peak coincide around 28.5, don't worry about it.
> If you feed the rig output into the 29 MHz scope at 28.5 SCREEN GRID OFF! It is likely that you can still see the signal. But I believe that the peak/dip method is really the most accurate.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: nasa820
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 09, 2006 1:43 PM
> Subject: [TS-520_820_530_830] Re: 830 Neutralization
>
>
> Neutralization Update from W7DDD.
>
> Well, with the excellent help from this group, I found the
> neutralization trim screw hiding beneath a wire bundle. Never called
> out in my Manual. So, on to the job. I checked and reset the bias
> and checked the driver tube per K0ZL. All OK. The xmtr tuned up
> just fine into a dummy load. Since my oscilloscope is only good for
> 20Mhz, and I don't have a sensitive RF millivoltmeter, I went down two
> of N9WB alternate routes.
>
> Using a "cheap" CB SWR meter, I couldn't get any reading even with the
> gain knob turned up all the way. Then I installed a Swan WM-200
> wattmeter and, with the SG switch ON, used the power peak/current dip
> method he mentions. They seemed to be bang on.
>
> So I hooked her up and made half a dozen contacts on 40 and 20 meters.
> All gave me good audio reports. Power output on my Array Solutions
> PowerMaster Wattmeter was running 100-115 watts. I checked into my
> nets this morning (where they know my voice), and they said the audio
> was great.
>
> Now, I've never adjusted this trim cap that I looked so hard for!
> I've thought of doing a neutralization using my oscilloscope down on

> 20 meters. But, I've also thought of 'declaring victory' and
moving on.
>
> Comments?
>
> Bob
> W7DDD
>
> --- In TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@> wrote:
> >
> > Whew, I think we're getting somewhere, Troy! My Manual has the
> > picture with no such trim callout. And I found a screw under all
> > those wires. (I sent a jpg to Troy.) So now I think I can move on
> > and try to screw up the neutralization. Thanks for your help. It
> > really made a big difference!
> >
> > 73,
> >
> > Bob
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@>
wrote:
> > >
> > > Bob, I just sent a scan of the page from my manual to your email
> > address on QRZ. Hope it will help.
> > > 73,
> > > Troy, W6HV
> > > ----- Original Message -----
> > > From: nasa820<mailto:nasa820@>
> > > To:
> > >
>
TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
> > >
> > > Sent: Sunday, October 08, 2006 12:21 PM
> > > Subject: [TS-520_820_530_830] Re: 830 Neutralization
> > > >
> > > >
> > > Thanks to everyone for the info and advice. At this end, the
little
> > > grey cells are still struggling.-----
> > > On Page 10 of the Service Manual (input from W6HV), the lower
> picture
> > > shows a view of the bottom of the unit. The Final Unit is in the
> > > upper right hand section. Kenwood calls it the Final Unit. It is
> > > commonly called the Final Cage by those in the group - I'm sure
> we're
> > > talking the same thing. Unfortunately, no caption "TC1
> Neutralization"
> > > as noted by W6HV (or Gordon.) ----

> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.1/470 - Release Date:
10/10/06
>
>
> [Non-text portions of this message have been removed]
>

10077. Radio ready for surgery

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 22:45:00 UTC
From: w7cth
Topic: 10077 Message: 10077

Before I joined this group. I was thinking I would be ready to talk on my 830s that I picked up 2 weeks ago. Now it is on my work bench ready for the .001uf c106, new tubes,diodes,res. and Deoxit all should be in by the end of the week.

Chris W7CTH

10078. Re: [TS-520_820_530_830] Radio ready for surgery

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 22:54:48 UTC
From: John Harp
Topic: 10077 Message: 10078

Be patient Chris, It's worth the wait.

w7cth <w7cth@...> wrote: Before I joined this group. I was thinking I would be ready to talk on
my 830s that I picked up 2 weeks ago. Now it is on my work bench ready
for the .001uf c106, new tubes,diodes,res. and Deoxit all should be in
by the end of the week.

Chris W7CTH

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10079. Re: [TS-520_820_530_830] Re: 830 Processor switch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 22:57:20 UTC
From: John Harp
Topic: 10057 Message: 10079

Mods? what mods? Didn't you just get it? Did you get it on the air already?

Chris HEmbree <w7cth@...> wrote: It's ok. I only said that my radio will off the air for some time is because I have a list of things I need to do to it. with all the Mods and stuff. The list keeps getting bigger. Not because of the lack of help.

Chris..

Bill Scurlock <k5gcw@sbcglobal.net> wrote: Chris,

With this "group", as long as you keep asking questions about what you are experiencing with the radio, someone here will try to help you. Don't give up. They've guided me through problems with 4 radios during the last 9 months.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 10:49 AM
Subject: Re: [TS-520_820_530_830] Re: 830 Processor switch

I just looked at the web site.I don't think I am every going to get my radio on the air with all the stuff that is on order for it.
Chris.

n9wb <n9wb@...> wrote: TS-830 processor switch.

Clean the switch with Craig De-Oxit. Walt N9WB

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10080. Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottky Diodes.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:02:26 UTC
From: John Harp
Topic: 10027 Message: 10080

I agree with you and Walt on that. Chris clean it first.

Bill Scurlock <k5gcw@...> wrote: Rick,

I "second" Walt's comments.

The first thing I do when I start working on a Kenwood Hybrid I buy is to unplug each connector on each board, treat the connector and the pins on the board with DeOxit, and then carefully reconnect each connector. Then use DeOxit on all controls and switches including the band switch. Then at least you may be able to avoid some troubleshooting issues. What's left will usually be real problems you get to find.

Have fun.

73, Bill, K5GCW
----- Original Message -----
From: Rick KC0HH
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 8:45 AM
Subject: Re: [TS-520_820_530_830] Re: Help....Something Other Than Shottky Diodes.....

Hi Chris,

The switch checks out ok with an ohm meter but I guess its possible that it will not pass audio frequencies. The comp meter works fine and the comp level adjusts the compression. But no ALC indication and no output. If the schematic is correct, the audio signal goes from the comp level pot directly to the proc switch. I guess I am taking an 830S apart again.... Thanks

73' Rick KC0HH
Lamar, Colorado

Chris HEmbree <w7cth@...> wrote: I am not sure if this has anything to do with your problem. When I picked up my 830s about a week ago. My Proc did not work,The radio was used most of the time for CW. I worked the Proc button on and off and it started to work. My problem is that it needs a good cleaning or a new switch.

Chris W7CTH

>
> My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off,
good audio output with ALC reading adjusted by mic gain. When I push
the proc button, I show deflection on the meter set to comp and the
comp level works, but no output and no ALC indication. I found what
looks like a broken connection behind the front panel ...It is the

shields of the 3 white wires to the processor switch ganged together
with the ends covered in heatshrink. It looks like it should be
connected to the rear of the Proc button but there is no evidence of a
wire having broken off there.
>
> I don't use the processor that often but it annoys me it isn't
working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S
>
> 73' Rick KC0HH
>

My money is on the switch itself. For some unknown reason the audio is
routed thru the switch. They didn't use dioe switching. The switches
if not regularly used tend to not make contact. Try cycling the switch
rapidly for 40-50 times and see what happens.

Clif

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

10081. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:02:50 UTC
From: digs4ruff
Topic: 9995 Message: 10081

Harry
Will bow to Walt's experience. I can only vouch for the 820S.
Barry

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Yes, N9WB
>
> ----- Original Message -----
> From: harrycwleung
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 09, 2006 1:52 PM
> Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate
>
>
> Hi Barry and the Group,
>
> Do you think that the diodes swapping is good for TS520S also?
>

10082. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:09:31 UTC
From: digs4ruff
Topic: 9995 Message: 10082

Gordon
Thanks.
I am wondering if we are comparing apples here. I just checked the
FILES/MODS/ts-820 SCHOTTKEY dIODE MOD AND THERE IS NO MENTION OF A
RESISTOR.?????????
regards
Barry

--- In TS-520_820_530_830@...m, "Gordon" <n6wk@...> wrote:
>
> Hi Barry,
> I didn't try the Mod without the Resistor. I did both the Rsistor
> and the 4 diodes at the same time.
> According To Richard Measures (AG6K) article on Circuit
Improvements
> for the TS-830, he states that the lack of the resistor allows the
IF
> signal to Modulate the Local Ocsillator which adds some distortion.
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > I must confess I didn't do the resistor. Will have to revisit
this
> > to see if it is really required on the 820S. Any opinions Gordon?
> > regards
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
> > <windled@> wrote:
> > >
> > > Barry;
> > > The TS-830 mod to upgrade the PD to the shottky
diodes
> > says to add a 100 Ohm resistor, did you add any resistors or
just
> > simply swap out the diodes in you TS-820 ?
> > >
> > > D.Windle
> > >
> > > ----- Original Message -----

> > > From: digs4ruff
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Monday, October 09, 2006 2:37 PM
> > > Subject: [TS-520_820_530_830] Schottky Diodes UpDate
> > >
> > >
> > > I have just completed swapping out all 16 diodes on the IF
board
> > that
> > > Gordon refers to.
> > > One word will sum up the results. WOW!!!!
> > > Of course this is a subjective measurement based solely on
my
> > hearing
> > > ability. Either the 20M band opened up this afterneoon or we
> > have done
> > > something really good to this 820S.
> > > Barry in Vancouver
> > > VA7GEM
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

10083. Re: YK-88SN-1 Filter.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:18:27 UTC
From: Bob M
Topic: 10047 Message: 10083

Thanks for the answer Rick,

I thought it was in a different package but I also thought the Freq. was a bit different. So is it easily removed from the PCB and is it easily damaged by heat etc..

Most of the ones on QTH are wanted and the one SN has been sold. the Ebay ones tend to go for a rediculous price especially when you take into consideration the exchange rate currently 74c US for $1 A.

I've also put some feelers out localy and am talking atm with a chap about a TS-830s,SP-230 and AT-200 station but I'm sure he will want way more than I can talk the Fiancial Manager into supplying Hi.

73
Bob M VK4HAY
--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...>
wrote:
>
> Hi Bob,
>
> The -1 suffix means it is mounted on a plug in board to install
in newer Kenwoods such as TS-850, 950, 940 etc. The SSB filter
itself is identical but you would have to un-solder from the
mounting board to install in your 530S....The newer CW filters such
as a YK-88S-1 have a different center frequency and do not work very
well in the older hybrid Kenwoods. There are several YK-88SN filters
for sale here on qth.com and E-Bay..They only weigh a couple of
ounces so postage from the States wouldn't be more than a few
dollars.
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> Bob M <baysideq@...> wrote: G'day
All,
>
> just another quick question. I'm looking for a YK-88SN
> for my TS-530s. I've been offered a YK-88SN-1 which I do
> not recall seeing before.
>
> I'm not sure if it will suit the 530s so can someone please advise
> me if it's OK.
>
> I'd consider any the the group may offer as well. I'm down under
in

> Australia so I need to consider postage as well.
>
> Thanks and regards
>
> Bob M. VK4HAY
>
>
>
>
>
>
> ---------------------------------
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

10084. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:21:59 UTC
From: Gordon
Topic: 9995 Message: 10084

Hi Barry,
We will have to wait until Walt weighs in on this Issue. I work on
many 830's but Walt is the Expert on the 820's. Even though I have
repaired a few myself, I always respect what Walt has to say.

Let's see what Walt says about the Resistor.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Gordon
> Thanks.
> I am wondering if we are comparing apples here. I just checked the
> FILES/MODS/ts-820 SCHOTTKEY dIODE MOD AND THERE IS NO MENTION OF A
> RESISTOR.?????????
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Barry,
> > I didn't try the Mod without the Resistor. I did both the Rsistor
> > and the 4 diodes at the same time.
> > According To Richard Measures (AG6K) article on Circuit
> Improvements
> > for the TS-830, he states that the lack of the resistor allows the
> IF
> > signal to Modulate the Local Ocsillator which adds some distortion.
> >
> > 73,
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> > wrote:
> > >
> > > I must confess I didn't do the resistor. Will have to revisit
> this
> > > to see if it is really required on the 820S. Any opinions Gordon?
> > > regards
> > > Barry
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"

> > > <windled@> wrote:
> > > >
> > > > Barry;
> > > > The TS-830 mod to upgrade the PD to the shottky
> diodes
> > > says to add a 100 Ohm resistor, did you add any resistors or
> just
> > > simply swap out the diodes in you TS-820 ?
> > > >
> > > > D.Windle
> > > >
> > > > ----- Original Message -----
> > > > From: digs4ruff
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Monday, October 09, 2006 2:37 PM
> > > > Subject: [TS-520_820_530_830] Schottky Diodes UpDate
> > > >
> > > >
> > > > I have just completed swapping out all 16 diodes on the IF
> board
> > > that
> > > > Gordon refers to.
> > > > One word will sum up the results. WOW!!!!
> > > > Of course this is a subjective measurement based solely on
> my
> > > hearing
> > > > ability. Either the 20M band opened up this afterneoon or we
> > > have done
> > > > something really good to this 820S.
> > > > Barry in Vancouver
> > > > VA7GEM
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

10085. Re: [TS-520_820_530_830] Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:23:34 UTC
From: John Harp
Topic: 10053 Message: 10085

Larry,

I did a search engine for that transistor for you. You can get that part from www.kenselectronics.com/lists/orig.htm .Part cost is 90 cents. Check it out.

"Larry N. Fraysier" <fraysier@...> wrote:
Hi,
Is there a common substitute for a 2SA562 transistor? Is there an
online database for semiconductor substitutes? Trying to fix a 530sp
that won't transmit.

Thanks,
Larry - N4HIT

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10086. Re: [TS-520_820_530_830] station question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:31:28 UTC
From: John Harp
Topic: 9987 Message: 10086

Yes a friend of mine from upstate Pennsylvania has his station in the living room and it contends with the TV. He came up with this idea. So I found one in our plumming parts and I got one. I'm a little off in my hearing too. It helps me alot. But I recently moved my radios to something other than horizontal and now it won't stay there. But I got an SP-230 now too.

Dave and Loraine <dave.crooks@...> wrote: Nice one John!
With my hearing, the PVC elbow raises the highs and sounds great.
Analogue alternative to DSP..
73 Dave F4EYK

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10087. NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:33:22 UTC
From: Ruben Echevarria
Topic: 10087 Message: 10087

I hate to sound like a broken record but..... Ok they're CD's now, anyway ....

After reading this repost, it sounds alot like the problem that I have with my "Gold TS830S" no ALC action. I've gone over the block diagram and came across Q19 transistor on the IF Board. I haven't checked it yet but it's about the only that I haven't done. Originally I couldn't get any receive and very low RF output. I started by pulling the connectors and then reconnecting and suddenly RX came up. So I pulled the board and resoldered most of the solder points on the board. That stabilized it for the most part. But still no ALC action although at times it does deflect but then dies out. In order to get any audio deflection on meter the MIC gain has to be turned up all the way and the PROC also all the way. There is a drop with PROC off. At times when I switch over to ALC on the meter the needle just sits there, no movement. At times I get a flicker. So I'm wondering if Q19 is the culprit. By the way no changes when adjusting VR6 and VR7. So I have a road block here ..... Ruben ...KA2HHB

(This is the repost here)
My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off, good audio output with ALC reading adjusted by mic gain. When I push the proc button, I show deflection on the meter set to comp and the comp level works, but no output and no ALC indication. I found what looks like a broken connection behind the front panel ...It is the shields of the 3 white wires to the processor switch ganged together with the ends covered in heatshrink. It looks like it should be connected to the rear of the Proc button but there is no evidence of a wire having broken off there.

I don't use the processor that often but it annoys me it isn't working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S

73' Rick KC0HH

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

10088. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:42:49 UTC
From: John Harp
Topic: 10087 Message: 10088

What impedance is the mic? try cleaning the conectors.

Ruben Echevarria <ka2hhb_2000@...> wrote: I hate to sound like a broken record but..... Ok they're CD's now, anyway ....

After reading this repost, it sounds alot like the problem that I have with my "Gold TS830S" no ALC action. I've gone over the block diagram and came across Q19 transistor on the IF Board. I haven't checked it yet but it's about the only that I haven't done. Originally I couldn't get any receive and very low RF output. I started by pulling the connectors and then reconnecting and suddenly RX came up. So I pulled the board and resoldered most of the solder points on the board. That stabilized it for the most part. But still no ALC action although at times it does deflect but then dies out. In order to get any audio deflection on meter the MIC gain has to be turned up all the way and the PROC also all the way. There is a drop with PROC off. At times when I switch over to ALC on the meter the needle just sits there, no movement. At times I get a flicker. So I'm wondering if Q19 is the culprit. By the way no changes when adjusting VR6 and VR7. So I have a road block here ..... Ruben ...KA2HHB

(This is the repost here)
My processor in the 830S I use quit working a while back.
Day off, so I thought I would look at things. With Proc turned off, good audio output with ALC reading adjusted by mic gain. When I push the proc button, I show deflection on the meter set to comp and the comp level works, but no output and no ALC indication. I found what looks like a broken connection behind the front panel ...It is the shields of the 3 white wires to the processor switch ganged together with the ends covered in heatshrink. It looks like it should be connected to the rear of the Proc button but there is no evidence of a wire having broken off there.

I don't use the processor that often but it annoys me it isn't working. I have been staring at schematics until I am cross eyed...
Anyone out there have their top cover off their 830S

73' Rick KC0HH

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10089. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:52:29 UTC
From: John Harp
Topic: 9948 Message: 10089

Gordon as I recall nad I don't have my book here with me right now, It's over at my Elmers. But it threw me off too. The radio as I recall the adjustment is on the bottom. The picture when I once did the neutralization I looked again at it because I had to figure out where the adjustment was. That was what I was referring to. The diagrams.

Gordon <n6wk@...> wrote: John,
I don't understand what you just said. What is turned around ??

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Yes, and if you look at the pictures a little more carefully you'll
see the unit is turned around. Don't fell bad I found that too.
>
> Gordon <n6wk@...> wrote: --- In
TS-520_820_530_830@yahoogroups.com, "nasa820" <nasa820@> wrote:
> >
> > I've been running my 830S for the last couple of years, and really
> > like this xmtr. When my transmit power went to zero recently, I found
> > the output tubes had gone south. Not a problem; I have three sets of
> > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > lit up, and I was able to tune up readily into a dummy load. Now, on
> > to the neutralization process. Or was it?
> >
> > The Operating Manual says "adjust TC1, reached through the adjustment
> > hole in the top of the final section.)" No hole in the top of the
> > cage (assume that's what they mean by the final section.) Two holes
> > in the side - neither appear to go to anything like what I'm looking
> > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > T7-T12. Is that the puppy I'm supposed to be cranking on?
> >
> >
> > Bob
> > W7DDD
> >
>
> NO, THAT IS NOT THE ONE !!
>
>
>
>
>
>

> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10090. Re: [TS-520_820_530_830] Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:55:37 UTC
From: Larry N. Fraysier
Topic: 10053 Message: 10090

Thanks to the response to my question...I am wanting to see if I have a transistor in my junk parts that will work. I don't want to order just one or two transistors unless I have too.

73,
Larry - N4HIT

10091. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-10 23:57:34 UTC
From: Ruben Echevarria
Topic: 10087 Message: 10091

Hi John...No it's not the mic...I have 2 working MC50's and I've tried both.
Does the same thing....

Thanks Ruben...KA2HHB

[Non-text portions of this message have been removed]

10092. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 00:01:17 UTC
From: Ruben Echevarria
Topic: 9948 Message: 10092

There is a new pic that I sent to Walt with TC1 Neutralization Cap clearly shown and marked.
For the TS830S... Check out new uploaded pics it's there.
Walt uploaded it to our database.... Ruben...KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 7:52:29 PM
Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization

Gordon as I recall nad I don't have my book here with me right now, It's over at my Elmers. But it threw me off too. The radio as I recall the adjustment is on the bottom. The picture when I once did the neutralization I looked again at it because I had to figure out where the adjustment was. That was what I was referring to. The diagrams.

Gordon <n6wk@...> wrote: John,
I don't understand what you just said. What is turned around ??

Gordon
N6WK

--- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@...> wrote:
>
> Yes, and if you look at the pictures a little more carefully you'll
see the unit is turned around. Don't fell bad I found that too.
>
> Gordon <n6wk@...> wrote: --- In
TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> >
> > I've been running my 830S for the last couple of years, and really
> > like this xmtr. When my transmit power went to zero recently, I found
> > the output tubes had gone south. Not a problem; I have three sets of
> > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > lit up, and I was able to tune up readily into a dummy load. Now, on
> > to the neutralization process. Or was it?
> >
> > The Operating Manual says "adjust TC1, reached through the adjustment
> > hole in the top of the final section.)" No hole in the top of the
> > cage (assume that's what they mean by the final section.) Two holes
> > in the side - neither appear to go to anything like what I'm looking

> > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > T7-T12. Is that the puppy I'm supposed to be cranking on?
> >
> >
> > Bob
> > W7DDD
> >
>
> NO, THAT IS NOT THE ONE !!
>
>
>
>
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

------------ --------- --------- ---
Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10093. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 00:20:07 UTC
From: John Harp
Topic: 10087 Message: 10093

Mine was sticking and I cleaned the contacts on the relay and it stopped. While I was at it I cleaned the connectors.

What I'm dealing with right now on it is the mic is a little intermittent at times.

Ruben Echevarria <ka2hhb_2000@...> wrote:
Hi John...No it's not the mic...I have 2 working MC50's and I've tried both.
Does the same thing....

Thanks Ruben...KA2HHB

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10094. Re: [TS-520_820_530_830] Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 00:21:12 UTC
From: John Harp
Topic: 10053 Message: 10094

Ok Larry. There was cross reference guides there too on other web pages.

"Larry N. Fraysier" <fraysier@...> wrote: Thanks to the response to my question...I am wanting to see if I have a
transistor in my junk parts that will work. I don't want to order just
one or two transistors unless I have too.

73,
Larry - N4HIT

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10095. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 00:23:59 UTC
From: Ruben Echevarria
Topic: 10087 Message: 10095

Man the only thing that's left is to gold plate everything....Then it'll be a real TS830S Gold....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 8:20:07 PM
Subject: Re: [TS-520_820_530_830] NO ALC TS830S ...

Mine was sticking and I cleaned the contacts on the relay and it stopped. While I was at it I cleaned the connectors.

What I'm dealing with right now on it is the mic is a little intermittent at times.

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
Hi John...No it's not the mic...I have 2 working MC50's and I've tried both.
Does the same thing....

Thanks Ruben...KA2HHB

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10096. ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 01:05:25 UTC
From: David Rust
Topic: 6293 Message: 10096

There is a 830s and MC50 on ebay now up to $690. Makes mine at $250. look pretty reasonable. I'll have to show this one to my wife to seal my good deal.
W0DLR

[Non-text portions of this message have been removed]

10097. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 01:22:43 UTC
From: Ruben Echevarria
Topic: 6293 Message: 10097

God Bless the person thats selling it, if they get that much....That's beyond unreasonable. Unless it's never been used...

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: David Rust <dlrust@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 9:05:25 PM
Subject: [TS-520_820_530_830] ts-830s

There is a 830s and MC50 on ebay now up to $690. Makes mine at $250. look pretty reasonable. I'll have to show this one to my wife to seal my good deal.
W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10098. Re: [TS-520_820_530_830] Re: Deoxit D5P, D5, etc..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 01:08:21 UTC
From: Rich Jones
Topic: 5544 Message: 10098

There is also a product called De-Ox-Id contact cleaner. Another very good contact cleaner. 2oz bottle is around $8.00. Napha is part of the ingrediant so use in well ventalated space.. Q tips and like said before, business card soaked in cleaner. I get it from Purchase Radio in Ann Arbor, Michigan.

james27613 <james27613@...> wrote: hi,

the D5P is in a pump spray can, so no hazmat
ups fees if you order it from mcm electronics.

the D5 is aerosol can and has hazmat fee and must
ship ground carrier.

Deoxit also comes in small 5ml bottles with a
needle applicator tip.

www.caig.com is the manufacturer.

when you are inside the radio, be sure to
clean the tx/rx relay too, just a litte deoxit
on a business card and pass the card between the
contacts, all you need to do (courtesy of Pete w2cwa).

73 james ke4drn

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10099. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 03:35:06 UTC
From: Bill Scurlock
Topic: 6293 Message: 10099

Dave,

Be careful she may want you to put yours on ebay for a profit!

73, Bill, K5GCW
----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 8:05 PM
Subject: [TS-520_820_530_830] ts-830s

There is a 830s and MC50 on ebay now up to $690. Makes mine at $250. look pretty reasonable. I'll have to show this one to my wife to seal my good deal.
W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10100. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 04:00:35 UTC
From: Rick KC0HH
Topic: 10087 Message: 10100

Hi Ruben,

When you have the processor on, put your meter in the comp position and see if you have any deflection and if the comp level does anything. If so, you have audio at least to the I.F. board. If you look at Ken -K4EAA's web site, he has a color 830S schematic with voltage test points labeled on it. Will help in trouble shooting. My problem only occurs when the Proc is turned on....And it is not the switch.

73' Rick KC0HH

Ruben Echevarria <ka2hhb_2000@...> wrote: I hate to sound like a broken record but..... Ok they're CD's now, anyway ....

After reading this repost, it sounds alot like the problem that I have with my "Gold TS830S" no ALC action. I've gone over the block diagram and came across Q19 transistor on the IF Board. I haven't checked it yet but it's about the only that I haven't done. Originally I couldn't get any receive and very low RF output. I started by pulling the connectors and then reconnecting and suddenly RX came up. So I pulled the board and resoldered most of the solder points on the board. That stabilized it for the most part. But still no ALC action although at times it does deflect but then dies out. In order to get any audio deflection on meter the MIC gain has to be turned up all the way and the PROC also all the way. There is a drop with PROC off. At times when I switch over to ALC on the meter the needle just sits there, no movement. At times I get a flicker. So I'm wondering if Q19 is the culprit. By the way no changes when adjusting VR6 and VR7. So I have a road block here ..... Ruben ...KA2HHB

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10101. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 04:20:52 UTC
From: Ruben Echevarria
Topic: 10087 Message: 10101

Hello Rick .... yes I do have audio. I pick it up on my other TS830S.
And yes there is deflection when switched to COMP.
Also see upward deflection when in RF.
I'll check out Ken's site for that schematic...thanks..
I just pulled the IF board again, seems like connector #5 is erratic.
And I did a resolder recently on it. Also connector #6 was loose
resoldered that no more problems there. Prior to doing the resolder
on #6 the radio was not doing anything, basically dead.
Anyway that's the story. I'm at a loss here. Also I'm limited as far as test
equipment, only have a multimeter. Anyway I'll keep plugging away
maybe I'll get lucky and learn something in the process.

Thanks...Ruben ...KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Rick KC0HH <kc0hh@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 12:00:35 AM
Subject: Re: [TS-520_820_530_830] NO ALC TS830S ...

Hi Ruben,

When you have the processor on, put your meter in the comp position and see if you have any deflection and if the comp level does anything. If so, you have audio at least to the I.F. board. If you look at Ken -K4EAA's web site, he has a color 830S schematic with voltage test points labeled on it. Will help in trouble shooting. My problem only occurs when the Proc is turned on....And it is not the switch.

73' Rick KC0HH

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: I hate to sound like a broken record but..... Ok they're CD's now, anyway ....

After reading this repost, it sounds alot like the problem that I have with my "Gold TS830S" no ALC action. I've gone over the block diagram and came across Q19 transistor on the IF Board. I haven't checked it yet but it's about the only that I haven't done. Originally I couldn't get any receive and very low RF output. I started by pulling the connectors and then reconnecting and suddenly RX came up. So I pulled the board and resoldered most of the solder points on the board. That stabilized it for the most part. But still no ALC action although at times it does deflect but then dies out. In order to get any audio deflection on meter the MIC gain has to be turned up all the way and the PROC also all the way. There is a drop with PROC off. At times when I switch over to ALC on the meter the needle just sits there, no movement. At times I get a flicker.

So I'm wondering if Q19 is the culprit. By the way no changes when adjusting VR6 and VR7. So I have a road block here ..... Ruben ...KA2HHB

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10102. Re: [TS-520_820_530_830] Transistor sub

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 06:10:43 UTC
From: Peter A Markavage
Topic: 10053 Message: 10102

And MCMinone, http://www.mcminone.com/
has the 2SA562 for .08 each

Pete, wa2cwa

On Tue, 10 Oct 2006 16:23:34 -0700 (PDT) John Harp <ka3dpw@...>
writes:
> Larry,
>
> I did a search engine for that transistor for you. You can get
> that part from www.kenselectronics.com/lists/orig.htm .Part cost is
> 90 cents. Check it out.
>
> "Larry N. Fraysier" <fraysier@...> wrote:
> Hi,
> Is there a common substitute for a 2SA562 transistor? Is there an
> online database for semiconductor substitutes? Trying to fix a 530sp
>
> that won't transmit.
>
> Thanks,
> Larry - N4HIT

10103. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 10:17:00 UTC
From: n9wb
Topic: 9995 Message: 10103

Hummm

I am looking at the balanced detector on the TS-830 and TS-820. They are quite similar. I have noted that in the TS-820 the LO is injected into the center wiper of a 1k potentiometer (VR-3). This is adjusted for minimum carrier in the IF line. When adjusting this, I have noticed that this was extremely broad and had little effect except near the ends of it's rotation.

I noted that in the TS-830, this has been replaced with two 470 ohm resistors and the LO is injected into the junction between them. This would be the same as if VR-3 in the TS-820 were exactly centered. I would be tempted to replace VR-3 with two 470 ohm 1/4 or 1/8 watt resistors. Each one would connect to the opposite ends of where VR-3 was and the other ends of these resistors would form a common point where the center of VR-3 was. Then I would add a 100 ohm 1/4 or 1/8 watt resistor from this common point to nearest ground foil as is done with the TS-830. TC-5, the trimmer capacitor would still have to be re-adjusted.

If you choose to not replace VR-3, place the 100 ohm resistor from the center of VR-3 to nearest ground. This can be done on the foil side of the board.
If you do replace VR-3 with two 470 ohm resistors, place the 100 ohm resistor from the common point between these resistors to nearest foil ground.

The reason I would be tempted to replace VR-3 is because it is my experience that these little potentiometers sometimes fail and are not extremely stable. It seems that Kenwood came to this conclusion when they designed the TS-830, one of the finest radios ever designed from all but a mechanical standpoint.

I have noted that on some TS-820, there is a bit of distortion on audio peaks like AG6K mentions. This problem was eliminated when I installed the INRAD model 88 filter in my TS-820. The model 88 has a bit more loss than the original filter because it has an extra pole. This reduction in IF signal seemed to solve the problem. But AG6K also mentions this problem and attributes it to intermodulation of the LO signal with detected audio. His 100 ohm resistor provides a load for the LO that is apparently plentiful and adds stability. So when I do all of this to my TS-820 I am going to try the 100 ohm resistor and replace VR-3 with 470 ohm resistors.

Resistors: Do not use wire wound resistors. It is unlikely that you will encounter these however. Carbon, Carbon film, and metal film are very satisfactory. Just for the sake of information, metal film are the best, however, that is way overkill. I am going to use Radio Shack Carbon Film resistors myself.

I mention these things to provide general information. I don't mean to worry you to death about trivial things. In this circuit, you will never notice the difference between metal film and carbon film. I just want you to know that metal film resistor are better.

One of my three electronic mentors was a teacher. W9VVT (SK), Earl Lemme. He taught me to teach. At least I try.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 6:21 PM
Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate

Hi Barry,
We will have to wait until Walt weighs in on this Issue. I work on
many 830's but Walt is the Expert on the 820's. Even though I have
repaired a few myself, I always respect what Walt has to say.

Let's see what Walt says about the Resistor.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Gordon
> Thanks.
> I am wondering if we are comparing apples here. I just checked the
> FILES/MODS/ts-820 SCHOTTKEY dIODE MOD AND THERE IS NO MENTION OF A
> RESISTOR.?????????
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Barry,
> > I didn't try the Mod without the Resistor. I did both the Rsistor
> > and the 4 diodes at the same time.
> > According To Richard Measures (AG6K) article on Circuit
> Improvements
> > for the TS-830, he states that the lack of the resistor allows the
> IF
> > signal to Modulate the Local Ocsillator which adds some distortion.
> >
> > 73,
> > Gordon
> > N6WK
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> > wrote:
> > >
> > > I must confess I didn't do the resistor. Will have to revisit
> this
> > > to see if it is really required on the 820S. Any opinions Gordon?
> > > regards
> > > Barry
> > >

> > > --- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle"
> > > <windled@> wrote:
> > > >
> > > > Barry;
> > > > The TS-830 mod to upgrade the PD to the shottky
> diodes
> > > says to add a 100 Ohm resistor, did you add any resistors or
> just
> > > simply swap out the diodes in you TS-820 ?
> > > >
> > > > D.Windle
> > > >
> > > > ----- Original Message -----
> > > > From: digs4ruff
> > > > To: TS-520_820_530_830@yahoogroups.com
> > > > Sent: Monday, October 09, 2006 2:37 PM
> > > > Subject: [TS-520_820_530_830] Schottky Diodes UpDate
> > > >
> > > >
> > > > I have just completed swapping out all 16 diodes on the IF
> board
> > > that
> > > > Gordon refers to.
> > > > One word will sum up the results. WOW!!!!
> > > > Of course this is a subjective measurement based solely on
> my
> > > hearing
> > > > ability. Either the 20M band opened up this afterneoon or we
> > > have done
> > > > something really good to this 820S.
> > > > Barry in Vancouver
> > > > VA7GEM
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.1/470 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10104. Scope advise

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 05:42:47 UTC
From: wb9iog
Topic: 10104 Message: 10104

I'm at a crossroad with my old Tek 535A and beginning to think
in terms of a more responsive scope for digital analysis.
Cursury examination of past posts mentioned the Tek 465,465B and the
475 versions that might satisfy my need.

Any advise appreciated. Also considering equivalent manufacturers
but am a bit leery of some imported stuff.

Thanks
Mike
Iowa

10105. DG-5 or how to measure frequency of VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 06:11:17 UTC
From: WebBoy
Topic: 10105 Message: 10105

Has anyone tried hooking up a frequency counter to the VFO phone plug output on a TS-520 to read the frequency? I tried this but got an odd reading. Is the DG-5 the only way to read this frequency. I guess what I am asking is did Kenwood code this so you have to buy the DG-5 to get a reading? Or am I doing something wrong as usual?

Thanks

Roger KC7FPB

10106. Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 13:02:29 UTC
From: max_ve3tmt
Topic: 10106 Message: 10106

Last night I completed the swap of diodes in both the modulator and detector stages. I also did the 100 ohm resistor mod in the detector. I had done a sweep of the receiver before and after the change but in my excitement I saved the new picture over the old one!! But I did see a definite difference in the receiver noise level. As far as the modulator change, the TX audio does sound a little cleaner, but conditions were very poor here last night so I couldn't get any checks on the air!

Max VE3TMT

10107. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 14:17:48 UTC
From: Rick KC0HH
Topic: 10087 Message: 10107

Hi Ruben,

According to the schematic Ken has on his site, Q19 on the I.F. board should have 1.5v on the base, 8.5v on collector and .9v SSB (6.1v CW) on emitter if working properly.

Rick KC0HH

Ruben Echevarria <ka2hhb_2000@...> wrote: Hello Rick .... yes I do have audio. I pick it up on my other TS830S.
And yes there is deflection when switched to COMP.
Also see upward deflection when in RF.
I'll check out Ken's site for that schematic...thanks..
I just pulled the IF board again, seems like connector #5 is erratic.
And I did a resolder recently on it. Also connector #6 was loose
resoldered that no more problems there. Prior to doing the resolder
on #6 the radio was not doing anything, basically dead.
Anyway that's the story. I'm at a loss here. Also I'm limited as far as test
equipment, only have a multimeter. Anyway I'll keep plugging away
maybe I'll get lucky and learn something in the process.

Thanks...Ruben ...KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10108. Re: [TS-520_820_530_830] DG-5 or how to measure frequency of VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 14:35:14 UTC
From: Randy Morton
Topic: 10105 Message: 10108

The DG-5 is, basically, a frequency divider (or is it multiplier, I forget) that shifts the count from the internal VFO. Changing the setting on the DG-5 changes the shift. You can do the same thing with a counter and a calculator. Set your radio on a known frequency and "playing with the numbers" a little. The formula should become evident fairly quickly.

Randy (KE5EOT0

On 10/11/06, WebBoy <KC7FPB@...> wrote:
>
> Has anyone tried hooking up a frequency counter to the VFO phone plug
> output on a TS-520 to read the frequency? I tried this but got an odd
> reading. Is the DG-5 the only way to read this frequency. I guess what
> I am asking is did Kenwood code this so you have to buy the DG-5 to get
> a reading? Or am I doing something wrong as usual?
>
> Thanks
>
> Roger KC7FPB
>
>
>

[Non-text portions of this message have been removed]

10109. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 14:43:18 UTC
From: Ruben Echevarria
Topic: 10087 Message: 10109

Good Morning...Thanks Rick, I'll check out those voltages.
I just plugged the board back in and fired it up.
I was up until 2am this morming going over the board checking for cold solder joints and just redoing a few more points. Use a a jewelers magnifying glass to check the tracings and joints. Whatever looked cold I resoldered. Then did a thorough cleaning of all the connectors and the board.
Well the board is in and it looks like I'm down about 20watts now (gremlins).
The good thing is all the intermittents are gone.

Thanks...Ruben ... KA2HHB ......

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Rick KC0HH <kc0hh@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 10:17:48 AM
Subject: Re: [TS-520_820_530_830] NO ALC TS830S ...

Hi Ruben,

According to the schematic Ken has on his site, Q19 on the I.F. board should have 1.5v on the base, 8.5v on collector and .9v SSB (6.1v CW) on emitter if working properly.

Rick KC0HH

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: Hello Rick .... yes I do have audio. I pick it up on my other TS830S.
And yes there is deflection when switched to COMP.
Also see upward deflection when in RF.
I'll check out Ken's site for that schematic... thanks..
I just pulled the IF board again, seems like connector #5 is erratic.
And I did a resolder recently on it. Also connector #6 was loose resoldered that no more problems there. Prior to doing the resolder on #6 the radio was not doing anything, basically dead.
Anyway that's the story. I'm at a loss here. Also I'm limited as far as test equipment, only have a multimeter. Anyway I'll keep plugging away maybe I'll get lucky and learn something in the process.

Thanks...Ruben ...KA2HHB

Ruben Echevarria
ka2hhb_2000@ yahoo.com
exracer1@verizon. net

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10110. Re: DG-5 or how to measure frequency of VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 15:13:26 UTC
From: Clif
Topic: 10105 Message: 10110

The DG-5 is not as you describe.

It is a frequency counter that measures the output of it's internal mixers. The DG5 requires from the radio 3 different frequencies which it mixes to determine the operating frequeny of the radio. These are Het Osc which changes with band, VFO Freq which changes within the band, and Carrier Freq which changes by mode (USB, LSB, CW). Once these components are mixed then it is fed to the counter which indicates frequency of the radio.

That is why the DG-5 is also a stand alone counter.

This is a very simplified description as it actually uses addition and subtraction of an internal 10Mhz oscillator so that no mixing products are on any oscillator frequency or the operating frequency which could cause birdies in the main radio.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Randy Morton" <ke5eot@...> wrote:
>
> The DG-5 is, basically, a frequency divider (or is it multiplier, I forget)
> that shifts the count from the internal VFO. Changing the setting on the
> DG-5 changes the shift. You can do the same thing with a counter and a
> calculator. Set your radio on a known frequency and "playing with the
> numbers" a little. The formula should become evident fairly quickly.
>
> Randy (KE5EOT0
>
>
> On 10/11/06, WebBoy <KC7FPB@...> wrote:
> >
> > Has anyone tried hooking up a frequency counter to the VFO phone plug
> > output on a TS-520 to read the frequency? I tried this but got an odd
> > reading. Is the DG-5 the only way to read this frequency. I guess what
> > I am asking is did Kenwood code this so you have to buy the DG-5 to get
> > a reading? Or am I doing something wrong as usual?
> >
> > Thanks
> >
> > Roger KC7FPB

> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

10111. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 15:11:41 UTC
From: Rick KC0HH
Topic: 10087 Message: 10111

Hi Ruben,

The schematic is about a 5 meg PDF file that Ken says will print up to a 36" wide paper at Kinkos or other printer service. Sure would beat looking at the schematic in the 830S owners manual with a magnifying glass. My eyes start to cross.
When you say all the intermittents are gone, ar eyou showing ALC on transmit now?

73' Rick KC0HH

Ruben Echevarria <ka2hhb_2000@...> wrote: Good Morning...Thanks Rick, I'll check out those voltages.
I just plugged the board back in and fired it up.
I was up until 2am this morming going over the board checking for cold solder joints and just redoing a few more points. Use a a jewelers magnifying glass to check the tracings and joints. Whatever looked cold I resoldered. Then did a thorough cleaning of all the connectors and the board.
Well the board is in and it looks like I'm down about 20watts now (gremlins).
The good thing is all the intermittents are gone.

Thanks...Ruben ... KA2HHB ......

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10112. Re: [TS-520_820_530_830] Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 15:28:37 UTC
From: Rick KC0HH
Topic: 10106 Message: 10112

Hi Max,

Glad you received the diodes. They got there pretty quick. Easy mod with good results.

40 meters was poor early in the evening but was really quiet late. I got my 830S back together and exchanged 5/9 reports with LY2ZZ.at 05:36 UTC...Pretty late for you guys. He was the only signal I heard on 40 meters except the BBC at 7160.00... Very low noise level just no other activity at all.
Still no processor though....

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: Last night I completed the swap of diodes in both the modulator and
detector stages. I also did the 100 ohm resistor mod in the detector.
I had done a sweep of the receiver before and after the change but in
my excitement I saved the new picture over the old one!! But I did see
a definite difference in the receiver noise level. As far as the
modulator change, the TX audio does sound a little cleaner, but
conditions were very poor here last night so I couldn't get any checks
on the air!

Max VE3TMT

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10113. Re: [TS-520_820_530_830] NO ALC TS830S ...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 15:41:43 UTC
From: Ruben Echevarria
Topic: 10087 Message: 10113

No Rick still no ALC on transmit.
Power is way down.
I think it's time to give up and send it out.
Otherwise this will turn into a junk pile.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: Rick KC0HH <kc0hh@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 11:11:41 AM
Subject: Re: [TS-520_820_530_830] NO ALC TS830S ...

Hi Ruben,

The schematic is about a 5 meg PDF file that Ken says will print up to a 36" wide paper at Kinkos or other printer service. Sure would beat looking at the schematic in the 830S owners manual with a magnifying glass. My eyes start to cross.
When you say all the intermittents are gone, ar eyou showing ALC on transmit now?

73' Rick KC0HH

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: Good Morning...Thanks Rick, I'll check out those voltages.
I just plugged the board back in and fired it up.
I was up until 2am this morming going over the board checking for cold solder joints and just redoing a few more points. Use a a jewelers magnifying glass to check the tracings and joints. Whatever looked cold I resoldered. Then did a thorough cleaning of all the connectors and the board.
Well the board is in and it looks like I'm down about 20watts now (gremlins).
The good thing is all the intermittents are gone.

Thanks...Ruben ... KA2HHB ......

------------ --------- --------- ---
Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10114. Re: [TS-520_820_530_830] Re: DG-5 or how to measure frequency of VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 16:03:05 UTC
From: Randy Morton
Topic: 10105 Message: 10114

Thanks for the update, Clif. I had checked into this in the past and thought that only a single signal was pulled from the external VFO plug on the 520 and that a manual band change was necessary to match the DG-5 to the radio. I must be getting the DG-5/520 combo mixed up with another set.

Randy (KE5EOT)

On 10/11/06, Clif <clif@...> wrote:
>
> The DG-5 is not as you describe.
>
> It is a frequency counter that measures the output of it's internal
> mixers. The DG5 requires from the radio 3 different frequencies which
> it mixes to determine the operating frequeny of the radio. These are
> Het Osc which changes with band, VFO Freq which changes within the
> band, and Carrier Freq which changes by mode (USB, LSB, CW). Once
> these components are mixed then it is fed to the counter which
> indicates frequency of the radio.
>
> That is why the DG-5 is also a stand alone counter.
>
> This is a very simplified description as it actually uses addition and
> subtraction of an internal 10Mhz oscillator so that no mixing products
> are on any oscillator frequency or the operating frequency which could
> cause birdies in the main radio.
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com<TS-520_820_530_830%40yahoogroups.com>,
> "Randy Morton" <ke5eot@...>
> wrote:
> >
> > The DG-5 is, basically, a frequency divider (or is it multiplier, I
> forget)
> > > that shifts the count from the internal VFO. Changing the setting
> on the
> > > DG-5 changes the shift. You can do the same thing with a counter and a
> > > calculator. Set your radio on a known frequency and "playing with the
> > > numbers" a little. The formula should become evident fairly quickly.
> > >
> > > Randy (KE5EOT0
> > >
> > >
> > > On 10/11/06, WebBoy <KC7FPB@...> wrote:

> > >
> > > Has anyone tried hooking up a frequency counter to the VFO phone
> plug
> > > output on a TS-520 to read the frequency? I tried this but got an odd
> > > reading. Is the DG-5 the only way to read this frequency. I guess what
> > > I am asking is did Kenwood code this so you have to buy the DG-5
> to get
> > > a reading? Or am I doing something wrong as usual?
> > >
> > > Thanks
> > >
> > > Roger KC7FPB
> > >
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

[Non-text portions of this message have been removed]

10115. SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:22:48 UTC
From: Ken Gunton
Topic: 10106 Message: 10115

Can anyone tell me what the connection is to the back of the SP-230 speaker? I'm at work, so don't have access to mine. I want to hook up my new TS-570, so will need to get a cable on the way home. I'll use the speaker B input on the 230.

Thanks in advance,
Ken W8ASA

10116. Re: [TS-520_820_530_830] SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:57:15 UTC
From: Ken Winterling
Topic: 10106 Message: 10116

Ken,

The SP-230 uses three (3) RCA jacks on the rear panel. Two are for
radio 1 and radio 2. Third is a line level output jack for the active
radio.

Ken, WA2LBI

On 10/11/06, Ken Gunton <ken@...> wrote:
>
> Can anyone tell me what the connection is
> to the back of the SP-230 speaker? I'm at
> work, so don't have access to mine. I want
> to hook up my new TS-570, so will need to
> get a cable on the way home. I'll use the
> speaker B input on the 230.
>
> Thanks in advance,
> Ken W8ASA
>

10117. Re: [TS-520_820_530_830] SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:52:12 UTC
From: Ruben Echevarria
Topic: 10106 Message: 10117

It's an RCA jack on the speaker .....

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: Ken Gunton <ken@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 4:22:48 PM
Subject: [TS-520_820_530_830] SP-230 Speaker connection

Can anyone tell me what the connection is
to the back of the SP-230 speaker? I'm at
work, so don't have access to mine. I want
to hook up my new TS-570, so will need to
get a cable on the way home. I'll use the
speaker B input on the 230.

Thanks in advance,
Ken W8ASA

[Non-text portions of this message have been removed]

10118. Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 18:48:50 UTC
From: max_ve3tmt
Topic: 10106 Message: 10118

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:

Hi Max,

Glad you received the diodes. They got there pretty quick. Easy mod
with good results.

Rick,

I appreciate the diodes. It was fairly easy to do the swap. I am
kicking myself for saving over the original noise sweep though. Now I
guess I no longer have any more reasons to open the 830 up! Time to
reap the rewards of my labour. I can't wait for conditions to improve
to the point of really giving the receiver a good listening to notice
any improvements.

Does installing the 100 ohm resistor knock the sensitivity down any?
Would recalibration of the s-meter be necessary?

Max VE3TMT

10119. Re: [TS-520_820_530_830] SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 21:19:52 UTC
From: Rick KC0HH
Topic: 10106 Message: 10119

Hi Ken,

RCA jacks on the rear of the SP-230

Rick KC0HH

Ken Gunton <ken@...> wrote:
Can anyone tell me what the connection is
to the back of the SP-230 speaker? I'm at
work, so don't have access to mine. I want
to hook up my new TS-570, so will need to
get a cable on the way home. I'll use the
speaker B input on the 230.

Thanks in advance,
Ken W8ASA

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10120. Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:03:31 UTC
From: max_ve3tmt
Topic: 9995 Message: 10120

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

One of my three electronic mentors was a teacher. W9VVT (SK), Earl Lemme. He taught me to teach. At least I try.

Hey Walt,

First off let me say all your knowledge and expertise with these rigs is greatly appreciated. Of all the groups I belong to, this group has 20 times more the activity of all the others combined and I enjoy reading each and every post. With everything I have learned from this group, I have turned my 830 setup into a great performing station. I hope everybody keeps up the good work.

I had a question regarding the addition of the 100 ohm resistor to the 830. I swapped the diodes last night and added the resistor. I adjusted L19 and L20 for max signal. Do I need to recalibrate the s-meter?

Max VE3TMT

10121. RE: [TS-520_820_530_830] SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 21:32:04 UTC
From: Ken Gunton
Topic: 10106 Message: 10121

Thanks! Now I know what to get on the
way home. You folks are great!

Ken W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ken Winterling
Sent: Wednesday, October 11, 2006 4:57 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] SP-230 Speaker connection

Ken,

The SP-230 uses three (3) RCA jacks on the rear panel. Two are for radio 1 and
radio 2. Third is a line level output jack for the active radio.

Ken, WA2LBI

On 10/11/06, Ken Gunton <ken@...> wrote:
>
> Can anyone tell me what the connection is
> to the back of the SP-230 speaker? I'm at
> work, so don't have access to mine. I want
> to hook up my new TS-570, so will need to
> get a cable on the way home. I'll use the
> speaker B input on the 230.
>
> Thanks in advance,
> Ken W8ASA
>

Yahoo! Groups Links

10122. C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 21:49:15 UTC
From: w7cth
Topic: 10106 Message: 10122

I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

10123. IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:58:40 UTC
From: w7cth
Topic: 10123 Message: 10123

I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

10124. IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:54:28 UTC
From: w7cth
Topic: 10123 Message: 10124

I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

10125. C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 21:33:18 UTC
From: w7cth
Topic: 10106 Message: 10125

sorry if this is posted 2 time.
I see that C106 is a Mylar cap. will a ceramic cap work in it's place?
If I need to buy a Mylar cap were is a good place to order it from.

I have no parts stores in Boise Idaho.
Chris..

10126. Re: SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 20:48:24 UTC
From: max_ve3tmt
Topic: 10106 Message: 10126

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
>
> Can anyone tell me what the connection is
> to the back of the SP-230 speaker? I'm at
> work, so don't have access to mine. I want
> to hook up my new TS-570, so will need to
> get a cable on the way home. I'll use the
> speaker B input on the 230.
>
> Thanks in advance,
> Ken W8ASA

Ken,

They are all RCA phono jacks.

Max VE3TMT

10127. Re: SP-230 Speaker connection

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 21:45:14 UTC
From: w7cth
Topic: 10106 Message: 10127

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Ken,
>
> RCA jacks on the rear of the SP-230
>
> Rick KC0HH
>
>
> Ken Gunton <ken@...> wrote:
> Can anyone tell me what the connection is
> to the back of the SP-230 speaker? I'm at
> work, so don't have access to mine. I want
> to hook up my new TS-570, so will need to
> get a cable on the way home. I'll use the
> speaker B input on the 230.
>
> Thanks in advance,
> Ken W8ASA
>
>
>
>
>
>
> ---------------------------------
> Get your own web address for just $1.99/1st yr. We'll help. Yahoo!
Small Business.
>
> [Non-text portions of this message have been removed]
>

10128. Re: [TS-520_820_530_830] Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 21:57:07 UTC
From: Rick KC0HH
Topic: 10106 Message: 10128

HI Max,

I didn't notice any decrease in sensitivity at all. Quite the contrary actually. I did have to tweak L19 and L20 to 600mv after the 100 ohm resistor install.
Your S meter should peak at S9 with the calibrate signal. Good way to check it.
I have a jpeg of your scan after the caps change on the audio board if you want it...I think it is the same one as is on the photo section of the group.

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote:

--- I appreciate the diodes. It was fairly easy to do the swap. I am kicking myself for saving over the original noise sweep though. Now I guess I no longer have any more reasons to open the 830 up! Time to reap the rewards of my labour. I can't wait for conditions to improve to the point of really giving the receiver a good listening to notice any improvements.

Does installing the 100 ohm resistor knock the sensitivity down any?
Would recalibration of the s-meter be necessary?

Max VE3TMT

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10129. Re: [TS-520_820_530_830] IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 22:02:14 UTC
From: Rick KC0HH
Topic: 10123 Message: 10129

Hi Chris

For RF bypass caps, the ceramics are fine but for audio circuits they will skew the frequency response. If that is all you have, then use the ceramic. I used a .0022 mylar for C106 myself.

73' Rick KC0HH

w7cth <w7cth@...> wrote: I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10130. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 22:31:00 UTC
From: Chris HEmbree
Topic: 10106 Message: 10130

I found 2 places in town that sell Mylar caps. What voltage is this Cap?
Me again

w7cth <w7cth@...> wrote: I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10131. Re: [TS-520_820_530_830] IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 22:49:42 UTC
From: Chris HEmbree
Topic: 10123 Message: 10131

is the .0022uf better than the .001uf that the Mod calls for?
Chris..

Rick KC0HH <kc0hh@...> wrote: Hi Chris

For RF bypass caps, the ceramics are fine but for audio circuits they will skew the frequency response. If that is all you have, then use the ceramic. I used a .0022 mylar for C106 myself.

73' Rick KC0HH

w7cth <w7cth@...> wrote: I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10132. [TS-520_820_530_830] Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 22:51:18 UTC
From: Rick KC0HH
Topic: 9995 Message: 10132

Hi All,

Well, I tracked down an open diode on the I.F. board, replaced it and now the processor works again.

For those of you who have not visited Ken Kemski's (K4EAA) web site he has a very large format color schematic of the 830S with voltage test points labeled available for download. By large I mean it will print out a 36" wide sheet if you take the file to a Kinkos or other commercial printer. He also has a wealth of information on Kenwood hybrid radios besides being kind enough to take the time to cut and paste the various board schematics, piece them together into one large page, label voltage test ponts and make it available to all. His site is www.k4eaa.com

73' Rick KC0HH
Lamar, Colorado

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10133. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 23:01:53 UTC
From: Rick KC0HH
Topic: 10106 Message: 10133

Hi Chris.

Shipping will cost you 20X what the cost of the capacitor will. Radio Shack has some plastic capacitors that will work but locally they have really cut back on their stock on hand and might not have .001 -> .0033 range. I have a .0011 mylar I will send you if you like....I might need some screw or something you have some time...Hi

73' Rick KC0HH
Lamar, Colorado

w7cth <w7cth@...> wrote: I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10134. Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 23:16:31 UTC
From: max_ve3tmt
Topic: 10106 Message: 10134

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> HI Max,
>
> I didn't notice any decrease in sensitivity at all. Quite the
contrary actually. I did have to tweak L19 and L20 to 600mv after the
100 ohm resistor install.
> Your S meter should peak at S9 with the calibrate signal. Good
way to check it.
> I have a jpeg of your scan after the caps change on the audio
board if you want it...I think it is the same one as is on the photo
section of the group.

Rick,

Where did you measure the 600 mV? I couldn't really understand the service manual. It looks like you measure off the 2nd jumper to the right of connector #9 but not sure. The receive is still great, listening to a local on 40m here pinning my meter! I did a scan of the reciever noise with no antenna connected before the mod and then duplicated it after the diode swap. But I saved over the original. My calibrate signal peaks just under S9, but I don't have the proper tools for adjusting the coils. I may pick up a set this weekend. My VFO-230 will be here on Friday, so I will be busy painting the case to match the other gear and setting everything up. I may realign the receiver but I don't think it will make much difference. I'm glad to hear you got the processor working again. Nice thing about these radios, they are very easy to diagnose and treat.

Max VE3TMT

10135. Re: [TS-520_820_530_830] Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 23:38:57 UTC
From: N6WK
Topic: 9995 Message: 10135

Hi Rick.
That is Great that you located the problem. It always feels good
when you figure it out. Which Diode was it?
Also, I called Kinkos about printing out Kens Schematic to 36 inches.
The guy there said it was $10.00 a SQUARE foot. Well I thought that
would come out to $ 90 bucks, (3 X 3 = 9 Square Feet) but he said, no.
it's only $30.00 or so plus tax
Now, $30.00 seems expensive, ($90 would have been outrageous) but it
sure would be easier on the eyes. I think I will go get it done tomorrow.

73,
Gordon

Rick KC0HH wrote:

> Hi All,
>
> Well, I tracked down an open diode on the I.F. board, replaced it and
> now the processor works again.
>
> For those of you who have not visited Ken Kemski's (K4EAA) web site he
> has a very large format color schematic of the 830S with voltage test
> points labeled available for download. By large I mean it will print
> out a 36" wide sheet if you take the file to a Kinkos or other
> commercial printer. He also has a wealth of information on Kenwood
> hybrid radios besides being kind enough to take the time to cut and
> paste the various board schematics, piece them together into one large
> page, label voltage test ponts and make it available to all. His site
> is www.k4eaa.com
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10136. Re: [TS-520_820_530_830] Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-11 23:42:05 UTC
From: N6WK
Topic: 10106 Message: 10136

Rick, You measure from pin 4 of Connector 11 and ground. (It is a
jumper from pin 3 to pin 4 I believe it is a Purple wire.
I also had to adjust L19 and L20 back down to 600mv after adding the
resistor.
It was no big deal with the scope. An rf Voltmeter would work also very
well.
Gordon
N6WK

max_ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Rick KC0HH <kc0hh@...>
> wrote:
> >
> > HI Max,
> >
> > I didn't notice any decrease in sensitivity at all. Quite the
> contrary actually. I did have to tweak L19 and L20 to 600mv after the
> 100 ohm resistor install.
> > Your S meter should peak at S9 with the calibrate signal. Good
> way to check it.
> > I have a jpeg of your scan after the caps change on the audio
> board if you want it...I think it is the same one as is on the photo
> section of the group.
>
> Rick,
>
> Where did you measure the 600 mV? I couldn't really understand the
> service manual. It looks like you measure off the 2nd jumper to the
> right of connector #9 but not sure. The receive is still great,
> listening to a local on 40m here pinning my meter! I did a scan of the
> reciever noise with no antenna connected before the mod and then
> duplicated it after the diode swap. But I saved over the original. My
> calibrate signal peaks just under S9, but I don't have the proper
> tools for adjusting the coils. I may pick up a set this weekend. My
> VFO-230 will be here on Friday, so I will be busy painting the case to
> match the other gear and setting everything up. I may realign the
> receiver but I don't think it will make much difference. I'm glad to
> hear you got the processor working again. Nice thing about these
> radios, they are very easy to diagnose and treat.
>
> Max VE3TMT
>
>

[Non-text portions of this message have been removed]

10137. Re: [TS-520_820_530_830] Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 00:02:14 UTC
From: Chris HEmbree
Topic: 9995 Message: 10137

Great web site!! this one in in my Bookmarks
Chris.

N6WK <n6wk@...> wrote: Hi Rick.
That is Great that you located the problem. It always feels good
when you figure it out. Which Diode was it?
Also, I called Kinkos about printing out Kens Schematic to 36 inches.
The guy there said it was $10.00 a SQUARE foot. Well I thought that
would come out to $ 90 bucks, (3 X 3 = 9 Square Feet) but he said, no.
it's only $30.00 or so plus tax
Now, $30.00 seems expensive, ($90 would have been outrageous) but it
sure would be easier on the eyes. I think I will go get it done tomorrow.

73,
Gordon

Rick KC0HH wrote:

> Hi All,
>
> Well, I tracked down an open diode on the I.F. board, replaced it and
> now the processor works again.
>
> For those of you who have not visited Ken Kemski's (K4EAA) web site he
> has a very large format color schematic of the 830S with voltage test
> points labeled available for download. By large I mean it will print
> out a 36" wide sheet if you take the file to a Kinkos or other
> commercial printer. He also has a wealth of information on Kenwood
> hybrid radios besides being kind enough to take the time to cut and
> paste the various board schematics, piece them together into one large
> page, label voltage test ponts and make it available to all. His site
> is www.k4eaa.com
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10138. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 00:26:07 UTC
From: Chris HEmbree
Topic: 10106 Message: 10138

Thank you.
I got on the internet and found 2 places in Boise that had .001 Mylar caps one 50v and the other 650v. The service Man. does not say what the voltage is of the .015uf that is in there now.I don't think you will need much voltage on this cap.
Is any one using anything other than the .001uf cap that they like better?

Chris.

Rick KC0HH <kc0hh@...> wrote: Hi Chris.

Shipping will cost you 20X what the cost of the capacitor will. Radio Shack has some plastic capacitors that will work but locally they have really cut back on their stock on hand and might not have .001 -> .0033 range. I have a .0011 mylar I will send you if you like....I might need some screw or something you have some time...Hi

73' Rick KC0HH
Lamar, Colorado

w7cth <w7cth@...> wrote: I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10139. Re: [TS-520_820_530_830] Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 00:38:56 UTC
From: Rick KC0HH
Topic: 10106 Message: 10139

Hi Max,

Th S meter adjustment is with two variable resistors. I don't have a service manual handy for the exact VR #'s, but you can use a screw driver. A flat tip tuning tool would be better though.

In AG6K's own words "The correct LO-voltage, measured across the added 100 Ohm terminating-resistor, should be approx. 600mV peak to peak on both USB and LSB. This voltage can be set by alternately adjusting L19 and L20.. This test point is also available, from the component side of the board, on pin 4 of connector #11, to circuit common." I used my Fluke with an RF probe. I didn't have to tweak them much at all.

Great on the VFO-230 ...You will enjoy it. I sure do mine...

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com,

Where did you measure the 600 mV? I couldn't really understand the service manual. It looks like you measure off the 2nd jumper to the right of connector #9 but not sure. The receive is still great, listening to a local on 40m here pinning my meter! I did a scan of the reciever noise with no antenna connected before the mod and then duplicated it after the diode swap. But I saved over the original. My calibrate signal peaks just under S9, but I don't have the proper tools for adjusting the coils. I may pick up a set this weekend. My VFO-230 will be here on Friday, so I will be busy painting the case to match the other gear and setting everything up. I may realign the receiver but I don't think it will make much difference. I'm glad to hear you got the processor working again. Nice thing about these radios, they are very easy to diagnose and treat.

Max VE3TMT

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10140. Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 00:58:43 UTC
From: max_ve3tmt
Topic: 10106 Message: 10140

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:

In AG6K's own words "The correct LO-voltage, measured across the added 100 Ohm terminating-resistor, should be approx. 600mV peak to peak on both USB and LSB. This voltage can be set by alternately adjusting L19 and L20.. This test point is also available, from the component side of the board, on pin 4 of connector #11, to circuit common." I used my Fluke with an RF probe. I didn't have to tweak them much at all.

Thanks for the info Rick. If I ever have the need to pop the case I will measure those voltages. Everything seems fine as it is. I'm excited about the VFO, although not sure why I got it. I think it was more to do with trying to get all the accessories. Had the SM220 scope years ago but traded it away. Kicking myself for that one now. Does the VFO-230 allow you to tune digitally or same as the radio itself, i.e. analogue VFO?

Max

10141. Re: [TS-520_820_530_830] Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 00:53:47 UTC
From: Rick KC0HH
Topic: 9995 Message: 10141

Hi Gordon,

The Kinkos kid should have paid more attention in Geometry class. I would be afraid someone there will finally figure out that a square yard is nine square feet...Hi For $30.00D does Kinkos have vellum or a heavier paper to print on? I am afraid stock weight 20lb paper will still crease and tear easily.

You know, now that I think about it, I will go down to the City Engineer's office with Ken's PDF file. They have a size E eight pen plotter and can download the file and print in color..... I think a 36" X 28" sheet of vellum is about $8.00...Do you know any Civil Engineers or Architects?

The diode was D40 on the I.F. board

73' Rick KC0HH

N6WK <n6wk@...> wrote: Hi Rick.
That is Great that you located the problem. It always feels good
when you figure it out. Which Diode was it?
Also, I called Kinkos about printing out Kens Schematic to 36 inches.
The guy there said it was $10.00 a SQUARE foot. Well I thought that
would come out to $ 90 bucks, (3 X 3 = 9 Square Feet) but he said, no.
it's only $30.00 or so plus tax
Now, $30.00 seems expensive, ($90 would have been outrageous) but it
sure would be easier on the eyes. I think I will go get it done tomorrow.

73,
Gordon

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10142. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 01:07:43 UTC
From: Rick KC0HH
Topic: 10106 Message: 10142

HI Chris,

The 50 volt cap is more than enough. When I did the C106 mod, all I had on hand was a .0022 mylar so that is what I used. . It is not worth tearing into the I.F. board to swap it out for a .001...If you are going to buy one, put the .001uF in. Measures recommends that size.

73' Rick KC0HH

Chris HEmbree <w7cth@...> wrote: Thank you.
I got on the internet and found 2 places in Boise that had .001 Mylar caps one 50v and the other 650v. The service Man. does not say what the voltage is of the .015uf that is in there now.I don't think you will need much voltage on this cap.
Is any one using anything other than the .001uf cap that they like better?

Chris.

w7cth <w7cth@...> wrote: I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10143. Re: DG-5 or how to measure frequency of VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 01:13:28 UTC
From: George W7ZVD
Topic: 10105 Message: 10143

There is a company in Auburn WA called Almost All Digital Electronics www.aade.com that makes a similar but smaller unit for the 520 and several others. I got one when I got tired of the DG-5 prices on e bay. It has worked well for several years now. The unit is available as a kit or assembled, I don't remember the price, but remember it was quite reasonable.

George W7ZVD

[Non-text portions of this message have been removed]

10144. Re: Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 01:33:05 UTC
From: Gordon
Topic: 9995 Message: 10144

Hi Rick, No I do NOT know any civil engineers. Hey, If you can get it printed for $8.00, how about getting it printed twice. I'll buy a copy from you. They way I see it $8.00 + SHIPPING < $30.00 hi hi..
Thanks for the info on the Diode. I will keep that one noted here for future reference.
I received my next batch of 200 Diodes today. I already have standing orders for almost 100 of them. These things are going like Hot cakes. I'll be shipping this batch on Friday.
See what you started !!!! I must say though, I am impressed with the results. Thank You !!
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Gordon,
>
> The Kinkos kid should have paid more attention in Geometry class. I would be afraid someone there will finally figure out that a square yard is nine square feet...Hi For $30.00D does Kinkos have vellum or a heavier paper to print on? I am afraid stock weight 20lb paper will still crease and tear easily.
>
> You know, now that I think about it, I will go down to the City Engineer's office with Ken's PDF file. They have a size E eight pen plotter and can download the file and print in color..... I think a 36" X 28" sheet of vellum is about $8.00...Do you know any Civil Engineers or Architects?
>
> The diode was D40 on the I.F. board
>
> 73' Rick KC0HH
>
> N6WK <n6wk@...> wrote:
Hi Rick.
> That is Great that you located the problem. It always feels good
> when you figure it out. Which Diode was it?
> Also, I called Kinkos about printing out Kens Schematic to 36 inches.
> The guy there said it was $10.00 a SQUARE foot. Well I thought that
> would come out to $ 90 bucks, (3 X 3 = 9 Square Feet) but he said, no.
> it's only $30.00 or so plus tax
> Now, $30.00 seems expensive, ($90 would have been outrageous) but it
> sure would be easier on the eyes. I think I will go get it done

tomorrow.
>
> 73,
> Gordon
>
>
>
>
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

10145. Re: [TS-520_820_530_830] New rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 02:16:41 UTC
From: David Rust
Topic: 10145 Message: 10145

Guys, you might go to this link...
http://www.qrz.com/ib-bin/ikonboard.cgi?act=ST&f=3&t=134717
Some privileges for all of us are being expanded.
W0DLR

[Non-text portions of this message have been removed]

10146. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 03:23:45 UTC
From: Chris HEmbree
Topic: 10106 Message: 10146

Thank you for your input. I did locate a place that had one. Man it is getting hard to buy parts in town anymore. I have been away from replacing parts for 10 years when I became a cell site tech. and out of the radio repair business..
I will pick up the .001 this week. One Mod out of the way and 2 more to go.
Chris..

Rick KC0HH <kc0hh@...> wrote: HI Chris,

The 50 volt cap is more than enough. When I did the C106 mod, all I had on hand was a .0022 mylar so that is what I used. . It is not worth tearing into the I.F. board to swap it out for a .001...If you are going to buy one, put the .001uF in. Measures recommends that size.

73' Rick KC0HH

Chris HEmbree <w7cth@yahoo.com> wrote: Thank you.
I got on the internet and found 2 places in Boise that had .001 Mylar caps one 50v and the other 650v. The service Man. does not say what the voltage is of the .015uf that is in there now.I don't think you will need much voltage on this cap.
Is any one using anything other than the .001uf cap that they like better?

Chris.

w7cth <w7cth@...> wrote: I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10147. Re: [TS-520_820_530_830] Re: Diode mod complete

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 04:34:17 UTC
From: Rick KC0HH
Topic: 10106 Message: 10147

Hi Max,

The VFO-230 is digital with 5 memories, RIT circuit, VFO Lock, and T-F Set, and has its own frequency display. The VFO-240 is the analog version with the same PTO circuit the 830S uses but uses the display readout of the 830S...I would think the 230 will work great for your digital modes.

One note about my VFO-230. I can not use the same power strip for both the radio and the VFO to turn them both on/off at the same time. The radio must have power to it first. Not necessarily turned on, but have power to the plug before I put power to the VFO, or my VFO-230 display comes up scrambled and will not work when I do turn the 830S on. I thought my VFO-230 quit working the first time it did this. I do not know if this is common, but I suspect it is. You also lose any memory stored if you unplug the VFO.

73' Rick KC0HH
Lamar, Colorado

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com,

Thanks for the info Rick. If I ever have the need to pop the case I
will measure those voltages. Everything seems fine as it is. I'm
excited about the VFO, although not sure why I got it. I think it was
more to do with trying to get all the accessories. Had the SM220 scope
years ago but traded it away. Kicking myself for that one now. Does
the VFO-230 allow you to tune digitally or same as the radio itself,
i.e. analogue VFO?

Max

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10148. Re: [TS-520_820_530_830] Re: Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 04:51:38 UTC
From: Rick KC0HH
Topic: 9995 Message: 10148

Hi Gordon,

Give me a couple of days to check with the Engineer's Office here. I am off Friday and will go talk to them. There are a couple of places here that have large format plotters and I will see what I can come up with. A large color coded schematic would be great.

73' Rick KC0HH

Gordon <n6wk@...> wrote:

Hi Rick, No I do NOT know any civil engineers. Hey, If you can get it printed for $8.00, how about getting it printed twice. I'll buy a copy from you. They way I see it $8.00 + SHIPPING < $30.00 hi hi..
Thanks for the info on the Diode. I will keep that one noted here for
future reference.
I received my next batch of 200 Diodes today. I already have
standing orders for almost 100 of them. These things are going like
Hot cakes. I'll be shipping this batch on Friday.
See what you started !!!! I must say though, I am impressed with
the results. Thank You !!

73,
Gordon

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10149. Re: [TS-520_820_530_830] Re: Schottky Diodes UpDate

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 08:28:02 UTC
From: n9wb
Topic: 9995 Message: 10149

I do not have a good answer to that. Somebody with a calibrated signal generator needs to check the sensitivity after doing this mod. I am up to my ears in alligators right now, but I hope to do this mod to my TS-820 eventually. I have a signal generator that can check this. In the mean time, I would just use it for a while. Unless the S-meter reading seems low, I wouldn't worry about it. Of course, if a signal generator is available, it could be set. I usually set them for S-9 with 50 microvolts input.

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 3:03 PM
Subject: [TS-520_820_530_830] Re: Schottky Diodes UpDate

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

One of my three electronic mentors was a teacher. W9VVT (SK), Earl
Lemme. He taught me to teach. At least I try.

Hey Walt,

First off let me say all your knowledge and expertise with these rigs
is greatly appreciated. Of all the groups I belong to, this group has
20 times more the activity of all the others combined and I enjoy
reading each and every post. With everything I have learned from this
group, I have turned my 830 setup into a great performing station. I
hope everybody keeps up the good work.

I had a question regarding the addition of the 100 ohm resistor to the
830. I swapped the diodes last night and added the resistor. I
adjusted L19 and L20 for max signal. Do I need to recalibrate the s-meter?

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.2/471 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10150. Re: [TS-520_820_530_830] IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 08:32:18 UTC
From: n9wb
Topic: 10123 Message: 10150

I used a ceramic disk in mine. But if I had one of those mylar ones available I would have chosen it. The ceramics are not quite as clean with audio but with this low of a value and being that it is a bypass cap, I doubt if one could tell the difference.

Vy 73, Walt N9WB
PS: on my TS-820 the one I had laying around had short leads so I soldered it to the foil side of the board.

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 3:54 PM
Subject: [TS-520_820_530_830] IF board C106

I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

10151. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 08:40:25 UTC
From: n9wb
Topic: 10106 Message: 10151

Fries or Radio Shack should have them. There are usually some in olde CBs or any discarded gear such as cassette recorders, portable radios, car stereos, TVs VCRs. The night before the trash is collected is a good time to go curbside shopping for such items. Second hand stores often have a lot of broken electronic junk in the back. I got a good deal on several speakers at Goodwill recently. Salvation Army stores is another source. Talk them out of some junk from the trash and give them a donation for their trouble.

When I was a kid I was poor. Now that I am an adult I am cheap.

Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 4:33 PM
Subject: [TS-520_820_530_830] C106 IF board.

sorry if this is posted 2 time.
I see that C106 is a Mylar cap. will a ceramic cap work in it's place?
If I need to buy a Mylar cap were is a good place to order it from.

I have no parts stores in Boise Idaho.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.2/471 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10152. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 08:45:20 UTC
From: n9wb
Topic: 10106 Message: 10152

50v or higher will be fine. 100 v is common. Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 5:31 PM
Subject: Re: [TS-520_820_530_830] C106 IF board.

I found 2 places in town that sell Mylar caps. What voltage is this Cap?
Me again

w7cth <w7cth@...> wrote: I don't see my post that I am sending,So forgive me if you see this
more than once.
I see that C106 is a Mylar Cap. Will a Ceramic Cap work in it's place?
And if not were would be a good place to order a Mylar Cap?

Chris..

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.2/471 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10153. Re: [TS-520_820_530_830] IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 08:46:22 UTC
From: n9wb
Topic: 10123 Message: 10153

.001 is better, but you probably will not notice the difference. The higher the value, the more highs it rolls off. Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 5:49 PM
Subject: Re: [TS-520_820_530_830] IF board C106

is the .0022uf better than the .001uf that the Mod calls for?
Chris..

Rick KC0HH <kc0hh@...> wrote: Hi Chris

For RF bypass caps, the ceramics are fine but for audio circuits they will skew the frequency response. If that is all you have, then use the ceramic. I used a .0022 mylar for C106 myself.

73' Rick KC0HH

w7cth <w7cth@...> wrote: I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.2/471 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

10154. Re: [TS-520_820_530_830] C106 IF board.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 13:11:40 UTC
From: Chris HEmbree
Topic: 10106 Message: 10154

We don't have a Fries in Boise ID. Radio Shack did not have any MYlar caps.
I did locate 2 electronics shops that sell Mylar caps. I am going to pick one up today.
Chris..

n9wb <n9wb@...> wrote: Fries or Radio Shack should have them. There are usually some in olde CBs or any discarded gear such as cassette recorders, portable radios, car stereos, TVs VCRs. The night before the trash is collected is a good time to go curbside shopping for such items. Second hand stores often have a lot of broken electronic junk in the back. I got a good deal on several speakers at Goodwill recently. Salvation Army stores is another source. Talk them out of some junk from the trash and give them a donation for their trouble.

When I was a kid I was poor. Now that I am an adult I am cheap.

Vy 73, Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 4:33 PM
Subject: [TS-520_820_530_830] C106 IF board.

sorry if this is posted 2 time.
I see that C106 is a Mylar cap. will a ceramic cap work in it's place?
If I need to buy a Mylar cap were is a good place to order it from.

I have no parts stores in Boise Idaho.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.2/471 - Release Date: 10/10/06

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10155. Re: [TS-520_820_530_830] IF board C106

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 13:41:12 UTC
From: Chris HEmbree
Topic: 10123 Message: 10155

I am going to pick up a Mylar today. I should not have post this one. It makes me look dum.
When you become a Cell site Tech you go brain dead.
I have not replaced a part in 10 years.
I am sure I will need help when I get the diodes and replacing the tubes.
Thanks
Chris..

n9wb <n9wb@...> wrote: I used a ceramic disk in mine. But if I had one of those mylar ones
available I would have chosen it. The ceramics are not quite as clean with
audio but with this low of a value and being that it is a bypass cap, I
doubt if one could tell the difference.

Vy 73, Walt N9WB
PS: on my TS-820 the one I had laying around had short leads so I soldered
it to the foil side of the board.

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 11, 2006 3:54 PM
Subject: [TS-520_820_530_830] IF board C106

I see that C106 is a ML cap0.015uf will a Ceramic Cap work in it's place?
or do you need the same type?
Chris

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10156. Re: New rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 14:39:56 UTC
From: Ellen R
Topic: 10145 Message: 10156

All phone priveleges are being expanded on 80 & 40m, and Generals on 15m (they will be able to work down to 21,275 KHz). On 40m, Generals will be able to use phone down to 71775 KHz, and Advanced & Extra will be able to use Phone down to 7125 KHz.

The hugest changes are on 80, where Generals will be able to go down to 3800 KHz, Advanced will be able to do Phone down to 3700 KHz, and Extras will be able to work phone all the way down to 3600 KHz. These changes will not go into effect until they are formally published in the Federal Register.

Here's the URL to the ARRL story - it lists all the changes (Including VHF, etc.):
http://www.arrl.org/news/stories/2006/10/11/100/?nc=1

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Guys, you might go to this link...
> http://www.qrz.com/ib-bin/ikonboard.cgi?act=ST&f=3&t=134717
> Some privileges for all of us are being expanded.
> W0DLR
>
> [Non-text portions of this message have been removed]
>

10157. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 18:53:22 UTC
From: nasa820
Topic: 9948 Message: 10157

Neutralization Update

With the help of the members of this group, I found that hiding TC1 adjustment cap, jury rigged a T connection to the dummy load feed, wrapped about 15 turns of hookup wire around the power tap, hooked up my 20Mhz scope to the coupled hookup wire, and successfully neutralized the new finals the proper way in about 1 minute. Worked like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by far the best. No politics. No flaming. The speed is amazing - answers sometimes within minutes. And the volume of traffic blows away most of the others, even on new sexy pieces of equipment. This Kenwood line of gear obviously has a huge and active following. I love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: John Harp <ka3dpw@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now, It's over at my Elmers. But it threw me off too. The radio as I recall the adjustment is on the bottom. The picture when I once did the neutralization I looked again at it because I had to figure out where

the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on
> > > to the neutralization process. Or was it?
> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >
> >
> >
> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?
> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]

> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

10158. Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-12 22:56:43 UTC
From: Hauser, Ron M.
Topic: 9948 Message: 10158

Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter works, but it is not sensitive, and I've gone through the calibration procedure. There is a component somewhere on the receive side, that is weak. I get no S-meter reading at all until a solid S9 signal, then it perks up and give a reading. My question:

Can anyone direct me to the area of the radio where the received signal comes into the meter? I'm sitting here staring at the schematic and I just can't find the S-Meter circuit.

Thanks!

--Ron
KC0TLN

10159. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 00:27:56 UTC
From: N6WK
Topic: 9948 Message: 10159

Ron,
Sounds like when I had an 830 that had a bad L41 Coil.
Are the receive signals weak as well as low on the S meter ?

Gordon
N6WK

Hauser, Ron M. wrote:

> Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
> works, but it is not sensitive, and I've gone through the calibration
> procedure. There is a component somewhere on the receive side, that is
> weak. I get no S-meter reading at all until a solid S9 signal, then it
> perks up and give a reading. My question:
>
> Can anyone direct me to the area of the radio where the received signal
> comes into the meter? I'm sitting here staring at the schematic and I just
> can't find the S-Meter circuit.
>
> Thanks!
>
> --Ron
> KC0TLN
>
>

[Non-text portions of this message have been removed]

10160. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 01:13:03 UTC
From: John Harp
Topic: 6293 Message: 10160

It better be new. Thats almost what I paid for my first one new.

Ruben Echevarria <ka2hhb_2000@...> wrote: God Bless the person thats selling it, if they get that much....That's beyond unreasonable.
Unless it's never been used...

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

----- Original Message ----
From: David Rust <dlrust@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 10, 2006 9:05:25 PM
Subject: [TS-520_820_530_830] ts-830s

There is a 830s and MC50 on ebay now up to $690. Makes mine at $250. look pretty reasonable. I'll have to show this one to my wife to seal my good deal.
W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10161. Re: [TS-520_820_530_830] ts-830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 01:11:58 UTC
From: John Harp
Topic: 6293 Message: 10161

Be careful. That could backfire on you. Wish you the best tho.

David Rust <dlrust@...> wrote: There is a 830s and MC50 on ebay now up to $690. Makes mine at $250. look pretty reasonable. I'll have to show this one to my wife to seal my good deal.
W0DLR

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10162. another TV-502 on ebay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 01:16:05 UTC
From: John Harp
Topic: 10162 Message: 10162

I was wandering back to ebay to look for a cable. Isaw another tv-502 transverter there with a buy now of about 80 dollars.

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10163. RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 01:32:53 UTC
From: Ron Hauser
Topic: 9948 Message: 10163

Hi Gordon... Well, I'm rather stumped, so I'll look at L41 -- I assume on the IF board?

Receive is very good, I have done A/B switching with it next to my other radio, (a TS820), and the receive on the 830 is slightly but noticeably better. But signals which come in S5 to S8 on the other radio, won't move the S-meter on this TS830. I have gone through the calibration by tweaking VR2, VR3, on the IF board, which are the "normal" calibration methods in the manual, and I can't get any sensitivity. So there has to be a component in the circuit somewhere close to the S-meter that is weak.

I've been ignoring it because it doesn't much impact my operation of the radio, but lately I have wanted to do the alignment steps in the manual, and many of them require you to peak a signal on the S-meter. So it has annoyed me enough to start tracking it down. I just don't know enough yet about the circuits around the meter to figure out where I am going.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N6WK
Sent: Thursday, October 12, 2006 7:28 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Ron,
Sounds like when I had an 830 that had a bad L41 Coil.
Are the receive signals weak as well as low on the S meter ?

Gordon
N6WK

Hauser, Ron M. wrote:

> Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
> works, but it is not sensitive, and I've gone through the calibration
> procedure. There is a component somewhere on the receive side, that is
> weak. I get no S-meter reading at all until a solid S9 signal, then it
> perks up and give a reading. My question:
>
> Can anyone direct me to the area of the radio where the received signal
> comes into the meter? I'm sitting here staring at the schematic and I just
> can't find the S-Meter circuit.
>
> Thanks!
>
> --Ron
> KC0TLN

>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

10164. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 01:40:07 UTC
From: David Rust
Topic: 9948 Message: 10164

Im watching the S meter discussion for my 830s, it reads almost full scale on a strong signal. I haven't attempted to work on that yet.
W0DLR

[Non-text portions of this message have been removed]

10165. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 03:38:29 UTC
From: Chris HEmbree
Topic: 9948 Message: 10165

I am getting ready to do this to. My new tubes came in today. I have a 100mhz scope and a dummy load. What is the power tap that you are talking about? I have a Kenwood 520 that I can rec on at the same time I neutraliz the 830. I would like to know more on how you hooked up your scope and the t connection and wires.I have a rf probe and a meter I was going to try for fun.

Thanks
Chris.

nasa820 <nasa820@...> wrote: Neutralization Update

With the help of the members of this group, I found that hiding TC1 adjustment cap, jury rigged a T connection to the dummy load feed, wrapped about 15 turns of hookup wire around the power tap, hooked up my 20Mhz scope to the coupled hookup wire, and successfully neutralized the new finals the proper way in about 1 minute. Worked like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by far the best. No politics. No flaming. The speed is amazing - answers sometimes within minutes. And the volume of traffic blows away most of the others, even on new sexy pieces of equipment. This Kenwood line of gear obviously has a huge and active following. I love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: John Harp <ka3dpw@...>

> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now,
It's over at my Elmers. But it threw me off too. The radio as I recall
the adjustment is on the bottom. The picture when I once did the
neutralization I looked again at it because I had to figure out where
the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on
> > > to the neutralization process. Or was it?
> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >
> >

> >
> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?
> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10166. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 04:53:38 UTC
From: Rick KC0HH
Topic: 9948 Message: 10166

Your S meter should read about S9 with the calibrate signal peaked. Best to check this on a dummy load or a dead band so you don't get any AGC action. Mine is a needle width below S9 when peaked and it is calibrated for 50uV for S9 signal.

73' Rick KC0HH
Lamar, Colorado

David Rust <dlrust@...> wrote: Im watching the S meter discussion for my 830s, it reads almost full scale on a strong signal. I haven't attempted to work on that yet.
W0DLR

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10167. New FCC Frequency Allocations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 08:08:40 UTC
From: Ruben Echevarria
Topic: 10167 Message: 10167

In ''refarming' ' the frequencies currently authorized to Novice and
Technician Plus licensees,

The Commission increased the voice segments for General, Advanced
and Amateur Extra licensees.

On 75 meters, Generals will be able to use voice from 3800-4000 kHz,
an increase of 50 kHz.

Advanced class licensees will be able to use
voice from 3700-4000, an increase of 75 kHz,

Amateur Extras will be able to use voice from 3600 to 4000 kHz,
a generous increase of 150 kHz.

On 40 meters, Advanced and Extra Class licensees will be able to use
voice from 7125-7300 kHz, an increase of 25 kHz.

General class licensees will be able to use voice on 7175-7300 kHz, an increase of
50 kHz.

On 15 meters, General class operators will have phone privileges on
21275-21450 kHz, an increase of 25 kHz.

To become official once they are published by the Commission.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

10168. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 08:54:41 UTC
From: Ruben Echevarria
Topic: 9948 Message: 10168

Ron make sure your AGC is set to either SLOW or FAST and not OFF.
Does your incoming signal sound garbled or is it clear?
It's happened to me a few times until I noticed that the AGC was off.

73 de KA2HHB

Ruben Echevarria
ka2hhb_2000@...
exracer1@...

----- Original Message ----
From: "Hauser, Ron M." <eichmann@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 12, 2006 6:56:43 PM
Subject: [TS-520_820_530_830] Pesky S-Meter (TS830)

Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
works, but it is not sensitive, and I've gone through the calibration
procedure. There is a component somewhere on the receive side, that is
weak. I get no S-meter reading at all until a solid S9 signal, then it
perks up and give a reading. My question:

Can anyone direct me to the area of the radio where the received signal
comes into the meter? I'm sitting here staring at the schematic and I just
can't find the S-Meter circuit.

Thanks!

--Ron
KC0TLN

[Non-text portions of this message have been removed]

10169. Re: [TS-520_820_530_830] Dig. Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 13:36:22 UTC
From: David Rust
Topic: 10169 Message: 10169

Both my 530s and 830s have an "unlit" digit on the far right hand side of the display. You can shine a flashlight into the digital display to the far right, and see what appears to be an unlit digit in both of them. Instead of reading 3973.0 why doesn't it say 3973.00?

It seems like I had a 430s one time that there was a say to turn that last digit off or on.
W0DLR
73

[Non-text portions of this message have been removed]

10170. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 13:47:16 UTC
From: Rick KC0HH
Topic: 9948 Message: 10170

Hi Ron,

The S meter is active on receive obviously, and switches to transmit via the T/R relays...I wonder if you have dirty/corroded points and need to clean your relays. Any resistance thru the relay contact points would knock the S meter down. I would do that first before I started pulling boards out to check. I will send you another snip of Ken's schematic directly showing the S meter path.

73' Rick KC0HH

"Hauser, Ron M." <eichmann@kc.rr.com> wrote: Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
works, but it is not sensitive, and I've gone through the calibration
procedure. There is a component somewhere on the receive side, that is
weak. I get no S-meter reading at all until a solid S9 signal, then it
perks up and give a reading. My question:

Can anyone direct me to the area of the radio where the received signal
comes into the meter? I'm sitting here staring at the schematic and I just
can't find the S-Meter circuit.

Thanks!

--Ron
KC0TLN

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10171. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 13:51:22 UTC
From: Rick KC0HH
Topic: 9948 Message: 10171

Hi Ron,

Here is the S meter path....

73' Rick KC0HH

"Hauser, Ron M." <eichmann@...> wrote: Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
works, but it is not sensitive, and I've gone through the calibration procedure. There is a component somewhere on the receive side, that is weak. I get no S-meter reading at all until a solid S9 signal, then it perks up and give a reading. My question:

Can anyone direct me to the area of the radio where the received signal comes into the meter? I'm sitting here staring at the schematic and I just can't find the S-Meter circuit.

Thanks!

--Ron
KC0TLN

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10172. Re: Unlit segment in Dig. Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 14:24:27 UTC
From: max_ve3tmt
Topic: 10169 Message: 10172

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Both my 530s and 830s have an "unlit" digit on the far right hand
side of the display. You can shine a flashlight into the digital
display to the far right, and see what appears to be an unlit digit in
both of them. Instead of reading 3973.0 why doesn't it say 3973.00?
>
> It seems like I had a 430s one time that there was a say to turn
that last digit off or on.
> W0DLR

Well this certainly deserves some investigation. A few years ago I
acquired a mint FT107 station, except some of the segments in the
transceiver frequency display were starting to dim. So I built a new
display usning yellow LED's but at the same time I included a 10 Hz
LED that I wire to show as zero all the time. Although the digit
wasn't functional, it did make the readout look more modern. I am
going to look through the schematics of the 830 and see if this digit
can be turned on. I didnt think there was room in the front display to
see another digit. Can't verify, I'm at work!

Shhhh don't tell the boss!

Max VE3TMT

10173. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 12:16:59 UTC
From: Rich Jones
Topic: 9948 Message: 10173

My 530 is the same way, weak S meter. When I switch to my NCX-3 on the same antenna, the meter flitch's at the slightest SSB signal and read's proper when 10 or 20 over. I have to admit it is kinda nice to have a meter that really works. As far as the 530 goes, It is mostly used for CW and it doesn't bother me. I use fast on CW and slow on SSB QSO's. Yes, the AGC needs to be in off position. Good luck, KG7FS Rich

N6WK <n6wk@...> wrote:
Ron,
Sounds like when I had an 830 that had a bad L41 Coil.
Are the receive signals weak as well as low on the S meter ?

Gordon
N6WK

Hauser, Ron M. wrote:

> Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
> works, but it is not sensitive, and I've gone through the calibration
> procedure. There is a component somewhere on the receive side, that is
> weak. I get no S-meter reading at all until a solid S9 signal, then it
> perks up and give a reading. My question:
>
> Can anyone direct me to the area of the radio where the received signal
> comes into the meter? I'm sitting here staring at the schematic and I just
> can't find the S-Meter circuit.
>
> Thanks!
>
> --Ron
> KC0TLN
>
>

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10174. RE: [TS-520_820_530_830] Re: Unlit segment in Dig. Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 14:42:00 UTC
From: Richard Harris
Topic: 10169 Message: 10174

The TS-530 (and probably the 830) uses an LSI counter IC (Toshiba TC5070P) for the frequency counter and this only caters for six digits.

A data sheet for this IC can be found at www.alldatasheet.co.kr

73s

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of max_ve3tmt
Sent: 13 October 2006 15:24
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Unlit segment in Dig. Display

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Both my 530s and 830s have an "unlit" digit on the far right hand side of the display. You can shine a flashlight into the digital display to the far right, and see what appears to be an unlit digit in both of them. Instead of reading 3973.0 why doesn't it say 3973.00?
>
> It seems like I had a 430s one time that there was a say to turn that last digit off or on.
> W0DLR

Well this certainly deserves some investigation. A few years ago I acquired a mint FT107 station, except some of the segments in the transceiver frequency display were starting to dim. So I built a new display usning yellow LED's but at the same time I included a 10 Hz LED that I wire to show as zero all the time. Although the digit wasn't functional, it did make the readout look more modern. I am going to look through the schematics of the 830 and see if this digit can be turned on. I didnt think there was room in the front display to see another digit. Can't verify, I'm at work!

Shhhh don't tell the boss!

Max VE3TMT

[Non-text portions of this message have been removed]

10175. Re: [TS-520_820_530_830] Re: Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 16:14:03 UTC
From: Rick KC0HH
Topic: 9995 Message: 10175

Hi Gordon,

Well, I dropped off a CD with Ken's schematic on it at the Engineer's Office this morning and they will run a couple of them off for me using their color HP Plotter. It will easily do 36" wide drawings so these are going to be huge schematics. I left the CD with them and will pick up the drawings this afternoon. I do not plan on folding them and will send one to you rolled in a tube....

73' Rick KC0HH

Gordon <n6wk@...> wrote: Hi Rick, No I do NOT know any civil engineers. Hey, If you can get it
printed for $8.00, how about getting it printed twice. I'll buy a copy
from you. They way I see it $8.00 + SHIPPING < $30.00 hi hi..
Thanks for the info on the Diode. I will keep that one noted here for
future reference.
I received my next batch of 200 Diodes today. I already have
standing orders for almost 100 of them. These things are going like
Hot cakes. I'll be shipping this batch on Friday.
See what you started !!!! I must say though, I am impressed with
the results. Thank You !!
73,
Gordon

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10176. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 16:16:58 UTC
From: BRENT BAUM
Topic: 9948 Message: 10176

Interesting thread. The S-meter on my 520SE seems to have the same weakness.
Brent, K7MEI

>From: Rich Jones <michjonezee@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)
>Date: Fri, 13 Oct 2006 05:16:59 -0700 (PDT)
>
>My 530 is the same way, weak S meter. When I switch to my NCX-3 on the
>same antenna, the meter flitch's at the slightest SSB signal and read's
>proper when 10 or 20 over. I have to admit it is kinda nice to have a
>meter that really works. As far as the 530 goes, It is mostly used for CW
>and it doesn't bother me. I use fast on CW and slow on SSB QSO's. Yes,
>the AGC needs to be in off position. Good luck, KG7FS Rich
>
>N6WK <n6wk@...> wrote:
> Ron,
>Sounds like when I had an 830 that had a bad L41 Coil.
>Are the receive signals weak as well as low on the S meter ?
>
>Gordon
>N6WK
>
>Hauser, Ron M. wrote:
>
> > Greetings Group. I am trying to troubleshoot a weak S-Meter. The meter
> > works, but it is not sensitive, and I've gone through the calibration
> > procedure. There is a component somewhere on the receive side, that is
> > weak. I get no S-meter reading at all until a solid S9 signal, then it
> > perks up and give a reading. My question:
> >
> > Can anyone direct me to the area of the radio where the received signal
> > comes into the meter? I'm sitting here staring at the schematic and I
>just
> > can't find the S-Meter circuit.
> >
> > Thanks!
> >
> > --Ron
> > KC0TLN
> >
> >
>
>[Non-text portions of this message have been removed]

>
>
>
>
>
>
>---------------------------------
>Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small
>Business.
>
>[Non-text portions of this message have been removed]
>
>
>

10177. Re: [TS-520_820_530_830] Re: Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 17:12:07 UTC
From: N6WK
Topic: 9995 Message: 10177

Rick,
That is Excellent. Please drop me an email off list with the total
cost including the tube and postage and I will get the cash to you ASAP.

Thank You VERY VERY much.
73,
Gordon

Rick KC0HH wrote:

> Hi Gordon,
>
> Well, I dropped off a CD with Ken's schematic on it at the Engineer's
> Office this morning and they will run a couple of them off for me
> using their color HP Plotter. It will easily do 36" wide drawings so
> these are going to be huge schematics. I left the CD with them and
> will pick up the drawings this afternoon. I do not plan on folding
> them and will send one to you rolled in a tube....
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@n6wk.com <mailto:n6wk%40n6wk.com>> wrote: Hi Rick, No I
> do NOT know any civil engineers. Hey, If you can get it
> printed for $8.00, how about getting it printed twice. I'll buy a copy
> from you. They way I see it $8.00 + SHIPPING < $30.00 hi hi..
> Thanks for the info on the Diode. I will keep that one noted here for
> future reference.
> I received my next batch of 200 Diodes today. I already have
> standing orders for almost 100 of them. These things are going like
> Hot cakes. I'll be shipping this batch on Friday.
> See what you started !!!! I must say though, I am impressed with
> the results. Thank You !!
> 73,
> Gordon
>
> ---
>
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great
> rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10178. Re: Unlit segment in Dig. Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 17:24:11 UTC
From: max_ve3tmt
Topic: 10169 Message: 10178

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>
> The TS-530 (and probably the 830) uses an LSI counter IC (Toshiba
TC5070P) for the frequency counter and this only caters for six digits.
>
> A data sheet for this IC can be found at www.alldatasheet.co.kr
>
> 73s
>
> Richard G3OTK

I researched the driver IC and indeed it does only have outputs for 6
digits. Now if the display in the 830 has 7, perhaps it can be lit
another way?? Any ideas?

Max

10179. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 18:37:26 UTC
From: Bill Scurlock
Topic: 9948 Message: 10179

Chris,

The easiest thing to do with your test equipment is to connect a coax TEE on the output of your radio, connect the dummy load to one side of the TEE fitting, and connect your scope lead to the other side of the TEE fitting. This lets your scope look at the voltage across the dummy load. For the scope connection I have a BNC adapter that allows me to connect the scope leads to individual connections that come out of the adapter. This is more dependable than using a separate receiver which sometimes picks up stray RF and confuses things. You can also use an RF Probe connected to the TEE and feed that signal to a sensitive Meter rather than using the scope. Or, you can stick in another TEE and feed both the scope and the RF Probe w/meter at the same time and see comparison readings. Have fun.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 12, 2006 10:38 PM
Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization

I am getting ready to do this to. My new tubes came in today. I have a 100mhz
scope and a dummy load. What is the power tap that you are talking about?
I have a Kenwood 520 that I can rec on at the same time I neutraliz the 830.
I would like to know more on how you hooked up your scope and the t connection and wires.I
have a rf probe and a meter I was going to try for fun.

Thanks
Chris.

nasa820 <nasa820@...> wrote: Neutralization Update

With the help of the members of this group, I found that hiding TC1
adjustment cap, jury rigged a T connection to the dummy load feed,
wrapped about 15 turns of hookup wire around the power tap, hooked up
my 20Mhz scope to the coupled hookup wire, and successfully
neutralized the new finals the proper way in about 1 minute. Worked
like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by
far the best. No politics. No flaming. The speed is amazing -
answers sometimes within minutes. And the volume of traffic blows
away most of the others, even on new sexy pieces of equipment. This
Kenwood line of gear obviously has a huge and active following. I
love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap
clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: John Harp <ka3dpw@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now,
It's over at my Elmers. But it threw me off too. The radio as I recall
the adjustment is on the bottom. The picture when I once did the
neutralization I looked again at it because I had to figure out where
the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on
> > > to the neutralization process. Or was it?

> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >
> >
> >
> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?
> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10180. Re: [TS-520_820_530_830] Re: Unlit segment in Dig. Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 18:17:54 UTC
From: Rick KC0HH
Topic: 10169 Message: 10180

Hi Max

I remember when the TS-430S came out it had a 6 digit display, but you could go in and snip a resistor and come up with the 7th digit. I am not sure of the counter IC used in the 430S or if it could be modified for use in the 830S, but it would be interesting to investigate.

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>
> The TS-530 (and probably the 830) uses an LSI counter IC (Toshiba
TC5070P) for the frequency counter and this only caters for six digits.
>
> A data sheet for this IC can be found at www.alldatasheet.co.kr
>
> 73s
>
> Richard G3OTK

I researched the driver IC and indeed it does only have outputs for 6 digits. Now if the display in the 830 has 7, perhaps it can be lit another way?? Any ideas?

Max

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10181. Re: [TS-520_820_530_830] New FCC Frequency Allocations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 20:04:12 UTC
From: Rich Jones
Topic: 10167 Message: 10181

Very interesting about the 7125 allocation for voice. As a mostly CW operator, I often start my session at the rig with an afternoon visit to 7110, the CW QRP calling freq. If 7110 is quiet, I will call CQ at 6 to 8 WPM hoping for a novice to respond. This happens more than naught. I really like to help out new CW operators, wether novice or higher, it makes no differance. That pretty much leaves the slow operator 25 VS 50 kc's to make a connection. Granted, between 7125 and 7150 is heavy with Broadcast, I suppose it will be a challange for SSB as well as it was for the CW operator. I probably have made and or heard no more than a dozen contacts over the last 15 years between 25 and 50. My 2 cents, Rich

Ruben Echevarria <ka2hhb_2000@...> wrote: In ''refarming' ' the frequencies currently authorized to Novice and
Technician Plus licensees,

The Commission increased the voice segments for General, Advanced
and Amateur Extra licensees.

On 75 meters, Generals will be able to use voice from 3800-4000 kHz,
an increase of 50 kHz.

Advanced class licensees will be able to use
voice from 3700-4000, an increase of 75 kHz,

Amateur Extras will be able to use voice from 3600 to 4000 kHz,
a generous increase of 150 kHz.

On 40 meters, Advanced and Extra Class licensees will be able to use
voice from 7125-7300 kHz, an increase of 25 kHz.

General class licensees will be able to use voice on 7175-7300 kHz, an increase of
50 kHz.

On 15 meters, General class operators will have phone privileges on
21275-21450 kHz, an increase of 25 kHz.

To become official once they are published by the Commission.

Ruben Echevarria
ka2hhb_2000@...
exracer1@...
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10182. Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 21:45:44 UTC
From: max_ve3tmt
Topic: 10182 Message: 10182

Hooked the VFO up. With the recieve button set to VFO, turning ext VFO knob does nothing but change the frequency on the display. The receive frequency does not change on the 830. Regardless of which FUNCTION switch is depressed the MAIN LED on the top stays lit. If I select VFO function for either TX or RX the VFO LED will light up but the MAIN LED stays lit up. I think this is overriding the EXT VFO operation. Am I doing something wrong?

Max

10183. Re: [TS-520_820_530_830] Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 22:01:38 UTC
From: N6WK
Topic: 10182 Message: 10183

Max, Are you sure you have the correct cable for the VFO? If so, is
it plugged into the EXT VFO port on the back of the rig?
I had to ask....

73,
Gordon

max_ve3tmt wrote:

> Hooked the VFO up. With the recieve button set to VFO, turning ext VFO
> knob does nothing but change the frequency on the display. The receive
> frequency does not change on the 830. Regardless of which FUNCTION
> switch is depressed the MAIN LED on the top stays lit. If I select VFO
> function for either TX or RX the VFO LED will light up but the MAIN
> LED stays lit up. I think this is overriding the EXT VFO operation.
> Am I doing something wrong?
>
> Max
>
>

[Non-text portions of this message have been removed]

10184. Re: Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 22:25:10 UTC
From: max_ve3tmt
Topic: 10182 Message: 10184

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Max, Are you sure you have the correct cable for the VFO? If so, is
> it plugged into the EXT VFO port on the back of the rig?
> I had to ask....
>
> 73,
> Gordon

It looks like a factory made cable. Molded connectors on each end. I see it only fits into end jack one way so it isnt twisted in any way. I'm just wondering if I am missing something. The previous owner said it was working fine with his rig.

Max

10185. Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 22:31:52 UTC
From: max_ve3tmt
Topic: 10182 Message: 10185

Another thing too...the RIT control changes nothing. All the switches are working. If I dial up 14.200 and hit the memory in on the 230, it will sotre the frequency and recall it when the recall button is pressed, but it is not doing anything to the 830. I dont think the MAIN and VFO LED's are supposed to be on at the same time.

Max

10186. Re: [TS-520_820_530_830] Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:02:17 UTC
From: Rick KC0HH
Topic: 10182 Message: 10186

Hi Max,

Put some De-Oxit or other cleaner on the pins for the cable and push it in and out a few times....You sure you have it in the VFO connector? The closest to the outside edge of the case?

Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: Another thing too...the RIT control changes nothing. All the switches
are working. If I dial up 14.200 and hit the memory in on the 230, it
will sotre the frequency and recall it when the recall button is
pressed, but it is not doing anything to the 830. I dont think the
MAIN and VFO LED's are supposed to be on at the same time.

Max

73' Rick KC0HH
Lamar, Colorado

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10187. Re: [TS-520_820_530_830] TS830s Voltage problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:05:59 UTC
From: David Rust
Topic: 10187 Message: 10187

I got the replacement HV capacitors today from DigiKey for the 830s, put them in and it works great. Got perfect audio reports on the Missouri traffic net. Only thing that puzzles me, now the HV appears a little high. Its full scale on the HV scale. Do I still have a problem?
Dave W0DLR

[Non-text portions of this message have been removed]

10188. Re: [TS-520_820_530_830] Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:15:36 UTC
From: N6WK
Topic: 10182 Message: 10188

If it is NOT pushed in all the way on the Rig, It will NOT activate the
Switch letting the Rig know that the External VFO is there

Gordon
N6WK

Rick KC0HH wrote:

> Hi Max,
>
> Put some De-Oxit or other cleaner on the pins for the cable and push
> it in and out a few times....You sure you have it in the VFO
> connector? The closest to the outside edge of the case?
>
> Rick KC0HH
>
> max_ve3tmt <max_ve3tmt@... <mailto:max_ve3tmt%40yahoo.ca>> wrote:
> Another thing too...the RIT control changes nothing. All the switches
> are working. If I dial up 14.200 and hit the memory in on the 230, it
> will sotre the frequency and recall it when the recall button is
> pressed, but it is not doing anything to the 830. I dont think the
> MAIN and VFO LED's are supposed to be on at the same time.
>
> Max
>
>
>
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10189. Re: [TS-520_820_530_830] Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:23:46 UTC
From: John Harp
Topic: 10182 Message: 10189

Max,

First, check your cables on the back. Mine were like that when I first attached to my 830. My connector wasn't in the socket on the back of the 830.

Second, I found sometimes if I stopped the power to the vfo for a moment while the 830 stayed on the VFO would reset. There are 3 places on the back that cable may fit. Make sure the cable is in the correct one.

max_ve3tmt <max_ve3tmt@...> wrote:

Hooked the VFO up. With the recieve button set to VFO, turning ext VFO knob does nothing but change the frequency on the display. The receive frequency does not change on the 830. Regardless of which FUNCTION switch is depressed the MAIN LED on the top stays lit. If I select VFO function for either TX or RX the VFO LED will light up but the MAIN LED stays lit up. I think this is overriding the EXT VFO operation.
Am I doing something wrong?

Max

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10190. Re: [TS-520_820_530_830] New FCC Frequency Allocations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:29:14 UTC
From: John Harp
Topic: 10167 Message: 10190

You summed that up about right Reuben. Now if they get moving on it, say like Monday, we might get to use these some where around mid November is my guess.

Ruben Echevarria <ka2hhb_2000@...> wrote: In ''refarming' ' the frequencies currently authorized to Novice and
Technician Plus licensees,

The Commission increased the voice segments for General, Advanced
and Amateur Extra licensees.

On 75 meters, Generals will be able to use voice from 3800-4000 kHz,
an increase of 50 kHz.

Advanced class licensees will be able to use
voice from 3700-4000, an increase of 75 kHz,

Amateur Extras will be able to use voice from 3600 to 4000 kHz,
a generous increase of 150 kHz.

On 40 meters, Advanced and Extra Class licensees will be able to use
voice from 7125-7300 kHz, an increase of 25 kHz.

General class licensees will be able to use voice on 7175-7300 kHz, an increase of
50 kHz.

On 15 meters, General class operators will have phone privileges on
21275-21450 kHz, an increase of 25 kHz.

To become official once they are published by the Commission.

Ruben Echevarria
ka2hhb_2000@...
exracer1@verizon.net
www.OneMillionAwake.com

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10191. Re: Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:36:23 UTC
From: max_ve3tmt
Topic: 10182 Message: 10191

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Max,
>
> First, check your cables on the back. Mine were like that when I first attached to my 830. My connector wasn't in the socket on the back of the 830.

I have verified the cable is in the socket closest to the edge of the radio.

When I plug the cable in I hear a relay click in the VFO and the display comes to life.

Lets say my 830 is on 14.200.0 If I hit MEM in on the EXT VFO it stores the frequency because pushing the memory out changes the EXT VFO's display to show the new frequency stored, but the 830 still acts like there is no EXT VFO hooked up.

When I put the EXT VFO in VFO mode on both TX and RX, both the MAIN & VFO LED's on the EXT VFO are lit, this doesn't sound right. I would think only the VFO LED should be lit. Can someone put their VFO in VFO mode and tell me if the MAIN LED goes out. I think this may be the source of my problem, as if the main VFO of the radio is always overriding the EXT VFO.

Assuming everything was working okay, does the readout on the 830 ever change with the EXT VFO being changed or do you treat them as independent displays? I've never used an external VFO with these rigs so I'm not sure.

10192. Re: [TS-520_820_530_830] Re: Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:51:38 UTC
From: John Harp
Topic: 10182 Message: 10192

No Max if you set the buttons to the remote VFO to recieve you should be able to see the change on the display of the 830 (assuming the digital hold is turned off).
Did you try the reset I spoke of. Sometimes it clears things out. Beyond that the cable might be your culprit like Gordon said. You could try cleaning the sockets and cables to see if that brings a resolution. You may even clean the inside boards and connectors and such. Try swapping a cable.

max_ve3tmt <max_ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Max,
>
> First, check your cables on the back. Mine were like that when I
first attached to my 830. My connector wasn't in the socket on the
back of the 830.

I have verified the cable is in the socket closest to the edge of the
radio.

When I plug the cable in I hear a relay click in the VFO and the
display comes to life.

Lets say my 830 is on 14.200.0 If I hit MEM in on the EXT VFO it
stores the frequency because pushing the memory out changes the EXT
VFO's display to show the new frequency stored, but the 830 still acts
like there is no EXT VFO hooked up.

When I put the EXT VFO in VFO mode on both TX and RX, both the MAIN &
VFO LED's on the EXT VFO are lit, this doesn't sound right. I would
think only the VFO LED should be lit. Can someone put their VFO in VFO
mode and tell me if the MAIN LED goes out. I think this may be the
source of my problem, as if the main VFO of the radio is always
overriding the EXT VFO.

Assuming everything was working okay, does the readout on the 830 ever
change with the EXT VFO being changed or do you treat them as
independent displays? I've never used an external VFO with these rigs
so I'm not sure.

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10193. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:56:54 UTC
From: John Harp
Topic: 9948 Message: 10193

Now you see why we work together. That's what gets the job done. What one may not know, another might. What one experiences can relate to another and someone else may know something more. It's the next best thing to having all the knowledge and experience yourself, only to become more so yourself in the end.
Enjoy. See you on the air.

nasa820 <nasa820@...> wrote:
Neutralization Update

With the help of the members of this group, I found that hiding TC1 adjustment cap, jury rigged a T connection to the dummy load feed, wrapped about 15 turns of hookup wire around the power tap, hooked up my 20Mhz scope to the coupled hookup wire, and successfully neutralized the new finals the proper way in about 1 minute. Worked like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by far the best. No politics. No flaming. The speed is amazing - answers sometimes within minutes. And the volume of traffic blows away most of the others, even on new sexy pieces of equipment. This Kenwood line of gear obviously has a huge and active following. I love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: John Harp <ka3dpw@...>
> To: TS-520_820_530_830@yahoogroups.com

> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now,
It's over at my Elmers. But it threw me off too. The radio as I recall
the adjustment is on the bottom. The picture when I once did the
neutralization I looked again at it because I had to figure out where
the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on
> > > to the neutralization process. Or was it?
> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >
> >
> >

> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?
> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10194. Re : VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:57:00 UTC
From: max_ve3tmt
Topic: 10194 Message: 10194

Problem solved!

I thought I would check the switch on the EXT VFO jack on the 830. I was getting 9V on the VFO control line regardless of the cable in the jack or not. I unsoldered the wire going from the switch to the VFO control pin and voila it works. The switch is shorted!

Max

10195. Re: Need help setting up VFO-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-13 23:56:08 UTC
From: Gordon
Topic: 10182 Message: 10195

Max, I am pretty sure you treat them as Independant VFO's
That being said, when you have the External VFO on and in RX mode, you should be able to tune across the band and hear signals using the External VFO. If you switch to Transmit, The external VFO will be displaying your Transmit Frequency only.

I have a VFO 240 so I really can't answer your questions exactly.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > Max,
> >
> > First, check your cables on the back. Mine were like that when I
> first attached to my 830. My connector wasn't in the socket on the
> back of the 830.
>
> I have verified the cable is in the socket closest to the edge of the
> radio.
>
> When I plug the cable in I hear a relay click in the VFO and the
> display comes to life.
>
> Lets say my 830 is on 14.200.0 If I hit MEM in on the EXT VFO it
> stores the frequency because pushing the memory out changes the EXT
> VFO's display to show the new frequency stored, but the 830 still acts
> like there is no EXT VFO hooked up.
>
> When I put the EXT VFO in VFO mode on both TX and RX, both the MAIN &
> VFO LED's on the EXT VFO are lit, this doesn't sound right. I would
> think only the VFO LED should be lit. Can someone put their VFO in VFO
> mode and tell me if the MAIN LED goes out. I think this may be the
> source of my problem, as if the main VFO of the radio is always
> overriding the EXT VFO.
>
> Assuming everything was working okay, does the readout on the 830 ever
> change with the EXT VFO being changed or do you treat them as
> independent displays? I've never used an external VFO with these rigs
> so I'm not sure.
>

10196. Re: [TS-520_820_530_830] Re : VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 00:07:08 UTC
From: John Harp
Topic: 10194 Message: 10196

Good Job Maxx!! Nice work.

max_ve3tmt <max_ve3tmt@...> wrote: Problem solved!

I thought I would check the switch on the EXT VFO jack on the 830. I
was getting 9V on the VFO control line regardless of the cable in the
jack or not. I unsoldered the wire going from the switch to the VFO
control pin and voila it works. The switch is shorted!

Max

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10197. Re: New FCC Frequency Allocations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 00:22:23 UTC
From: Ellen R
Topic: 10167 Message: 10197

Hi Rich,

I ve been doing QRP since the mid 80s. Actually 7110 is only the QRP calling freq. for Novice, and Tech w/HF Priveleges operators. The main 40m QRP calling freq. in North America, is 7040, and there are plans to move it down to 7030, to bring it in line with the rest of the world (whihc uses 7030 for a QRP calling freq.).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Very interesting about the 7125 allocation for voice. As a mostly CW operator, I often start my session at the rig with an afternoon visit to 7110, the CW QRP calling freq. If 7110 is quiet, I will call CQ at 6 to 8 WPM hoping for a novice to respond. This happens more than naught. I really like to help out new CW operators, wether novice or higher, it makes no differance. That pretty much leaves the slow operator 25 VS 50 kc's to make a connection. Granted, between 7125 and 7150 is heavy with Broadcast, I suppose it will be a challange for SSB as well as it was for the CW operator. I probably have made and or heard no more than a dozen contacts over the last 15 years between 25 and 50. My 2 cents, Rich
>
> Ruben Echevarria <ka2hhb_2000@...> wrote:
In ''refarming' ' the frequencies currently authorized to Novice and
> Technician Plus licensees,
>
> The Commission increased the voice segments for General, Advanced
> and Amateur Extra licensees.
>
> On 75 meters, Generals will be able to use voice from 3800-4000 kHz,
> an increase of 50 kHz.
>
> Advanced class licensees will be able to use
> voice from 3700-4000, an increase of 75 kHz,
>
> Amateur Extras will be able to use voice from 3600 to 4000 kHz,
> a generous increase of 150 kHz.
>
> On 40 meters, Advanced and Extra Class licensees will be able to use
> voice from 7125-7300 kHz, an increase of 25 kHz.
>
> General class licensees will be able to use voice on 7175-7300 kHz,

an increase of
> 50 kHz.
>
> On 15 meters, General class operators will have phone privileges on
> 21275-21450 kHz, an increase of 25 kHz.
>
> To become official once they are published by the Commission.
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

10198. Re: [TS-520_820_530_830] Re: New FCC Frequency Allocations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 00:55:13 UTC
From: Rich Jones
Topic: 10167 Message: 10198

Oh yes Ellen, you are also right on about 7040. I have a homebrew rock bound transmit 3 watt tranciever I built several years ago and all I have are 7009, 7025 and 7110 and 7124. The VFO works from 7000 to 7200. 7110 can get some nice DX QRP at times and of course 7130 but that has some horrible broadcast QRM most of the time here. My TR4 and the TS530 can idle down on CW to 5 watts no problem too. Hope to work you someday. Rich KG7FS

Ellen R <ellenjoanne2003@...> wrote: Hi Rich,

I ve been doing QRP since the mid 80s. Actually 7110 is only the QRP calling freq. for Novice, and Tech w/HF Priveleges operators. The main 40m QRP calling freq. in North America, is 7040, and there are plans to move it down to 7030, to bring it in line with the rest of the world (whihc uses 7030 for a QRP calling freq.).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones
<michjonezee@...> wrote:
>
> Very interesting about the 7125 allocation for voice. As a mostly CW operator, I often start my session at the rig with an afternoon visit to 7110, the CW QRP calling freq. If 7110 is quiet, I will call CQ at 6 to 8 WPM hoping for a novice to respond. This happens more than naught. I really like to help out new CW operators, wether novice or higher, it makes no differance. That pretty much leaves the slow operator 25 VS 50 kc's to make a connection. Granted, between 7125 and 7150 is heavy with Broadcast, I suppose it will be a challange for SSB as well as it was for the CW operator. I probably have made and or heard no more than a dozen contacts over the last 15 years between 25 and 50. My 2 cents, Rich
>
> Ruben Echevarria <ka2hhb_2000@...> wrote:
In ''refarming' ' the frequencies currently authorized to Novice and
> Technician Plus licensees,
>
> The Commission increased the voice segments for General, Advanced
> and Amateur Extra licensees.
>
> On 75 meters, Generals will be able to use voice from 3800-4000 kHz,
> an increase of 50 kHz.
>
> Advanced class licensees will be able to use
> voice from 3700-4000, an increase of 75 kHz,
>
> Amateur Extras will be able to use voice from 3600 to 4000 kHz,

> a generous increase of 150 kHz.
>
> On 40 meters, Advanced and Extra Class licensees will be able to use
> voice from 7125-7300 kHz, an increase of 25 kHz.
>
> General class licensees will be able to use voice on 7175-7300 kHz,
an increase of
> 50 kHz.
>
> On 15 meters, General class operators will have phone privileges on
> 21275-21450 kHz, an increase of 25 kHz.
>
> To become official once they are published by the Commission.
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10199. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 01:06:08 UTC
From: John Harp
Topic: 9948 Message: 10199

Ok Chris, what was described was to use a dummy load attached to the 830 like an antenna. With that 5other 520 you may listen on the same frequency for a null in the noise while your listening to it. That's one way.

Another way is to put in line an RF volt-meter. Look for a dip. It's gotta be sensitive.like millivolts or microvolts. Thats another way.

Now I've used a field strength meter and a number of turns of small wire around that short section of transmission line that attaches the 830 to the antenna dummy load. I take and attach that to the antenna of the FSM. Maybe wrap it around that or plug it into the FSM's socket. Remember, we are not hooking it up direct, only wrapping it around the the plastic coated shield on the outside to catch a small sample of the signal. This acts like a pickup coil and the sample is delivered to the meter or an oscilloscope as in your case and you can see the defection of the meter or read the signal on your display. You can look for a change in the signal. A dip in amplitude or the neter needle will drop back no lower.

Now remember Chris. When you do this you need to be set to the frequency of about 28.5 mhz. Some may say another similar frequency like 28.8. I found that works for me too. What ever your manual says for that radio; use it.

The book speaks of an SG Switch on the back. Use that setting to neutralize the Finals. When your done return that SG Switch to the normal operation setting the manual states. This is important. If you don't you'll look at your display and think it's broke the next time you turn it on. You won't hear a sound. If such is the case, Don't panic just turn it off and set the switch.

Now, here's the point you will turn to control the neutralization. On the bottom side of the PA box there is a printed circuit board. It has the sockets for the tubes soldered to it. look at the pictures in your manual if your not sure. On the bottom of that board is a little trimmer cap. It looks like a set screw adjustment. To access it you must take off the bottom cover and locate that board I described. The book marks it as TC1. It may seem a little hidden behind some wires near the edge of the board. Look at the manual to make sure you have that correct component. That little TC1 will balance the 6146 pair electrically.

Don't forget to set the SG Switch when you are done.

Follow what the book says and you'll do fine as the rest of us have. If you neutralize it correctly, you'll like the results of the process. If it doesn't seem to work as well you'd expected, you can go back and neutralize again. It's no big deal.

Keep an extra set of tubes as a back up.

Many people believe you need matched pairs of tubes. You don't really need to. It's just easier to neutralize tubes that are closely matched.

That's the basics of the procedure for you Chris. Don't forget the information is also in our archives should you need it.

Chris HEmbree <w7cth@...> wrote:
I am getting ready to do this to. My new tubes came in today. I have a 100mhz scope and a dummy load. What is the power tap that you are talking about?
I have a Kenwood 520 that I can rec on at the same time I neutraliz the 830.
I would like to know more on how you hooked up your scope and the t connection and wires.I have a rf probe and a meter I was going to try for fun.

Thanks
Chris.

nasa820 <nasa820@...> wrote: Neutralization Update

With the help of the members of this group, I found that hiding TC1 adjustment cap, jury rigged a T connection to the dummy load feed, wrapped about 15 turns of hookup wire around the power tap, hooked up my 20Mhz scope to the coupled hookup wire, and successfully neutralized the new finals the proper way in about 1 minute. Worked like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by far the best. No politics. No flaming. The speed is amazing - answers sometimes within minutes. And the volume of traffic blows away most of the others, even on new sexy pieces of equipment. This Kenwood line of gear obviously has a huge and active following. I love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: John Harp <ka3dpw@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now,

It's over at my Elmers. But it threw me off too. The radio as I recall
the adjustment is on the bottom. The picture when I once did the
neutralization I looked again at it because I had to figure out where
the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on
> > > to the neutralization process. Or was it?
> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >
> >
> >
> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?

> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10200. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 01:52:12 UTC
From: David Rust
Topic: 9948 Message: 10200

Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so use an insulated screwdriver that won't short it out or send you across the room.
Dave W0DLR

[Non-text portions of this message have been removed]

10201. Re: Re : VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 01:54:05 UTC
From: Gordon
Topic: 10194 Message: 10201

Great Find Max. I was just getting ready to email you my #.
Looks like you are becoming quite the trouble shooter. Good Job Max !
Now you need to locate a new switch.
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> Problem solved!
>
> I thought I would check the switch on the EXT VFO jack on the 830. I
> was getting 9V on the VFO control line regardless of the cable in the
> jack or not. I unsoldered the wire going from the switch to the VFO
> control pin and voila it works. The switch is shorted!
>
> Max
>

10202. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 01:55:44 UTC
From: Gordon
Topic: 9948 Message: 10202

EXCELLENT advice Dave....

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
use an insulated screwdriver that won't short it out or send you
across the room.
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

10203. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 01:58:03 UTC
From: Chris HEmbree
Topic: 9948 Message: 10203

I was talking to Gordon N6WK. He told me that I can take a T and hook one side of the scope to it.with a dummy load.Do I need to tune the radio for that Freq as If I was going to talk first.?
Chris..

John Harp <ka3dpw@yahoo.com> wrote: Ok Chris, what was described was to use a dummy load attached to the 830 like an antenna. With that 5other 520 you may listen on the same frequency for a null in the noise while your listening to it. That's one way.

Another way is to put in line an RF volt-meter. Look for a dip. It's gotta be sensitive.like millivolts or microvolts. Thats another way.

Now I've used a field strength meter and a number of turns of small wire around that short section of transmission line that attaches the 830 to the antenna dummy load. I take and attach that to the antenna of the FSM. Maybe wrap it around that or plug it into the FSM's socket. Remember, we are not hooking it up direct, only wrapping it around the the plastic coated shield on the outside to catch a small sample of the signal. This acts like a pickup coil and the sample is delivered to the meter or an oscilloscope as in your case and you can see the defection of the meter or read the signal on your display. You can look for a change in the signal. A dip in amplitude or the neter needle will drop back no lower.

Now remember Chris. When you do this you need to be set to the frequency of about 28.5 mhz. Some may say another similar frequency like 28.8. I found that works for me too. What ever your manual says for that radio; use it.

The book speaks of an SG Switch on the back. Use that setting to neutralize the Finals. When your done return that SG Switch to the normal operation setting the manual states. This is important. If you don't you'll look at your display and think it's broke the next time you turn it on. You won't hear a sound. If such is the case, Don't panic just turn it off and set the switch.

Now, here's the point you will turn to control the neutralization. On the bottom side of the PA box there is a printed circuit board. It has the sockets for the tubes soldered to it. look at the pictures in your manual if your not sure. On the bottom of that board is a little trimmer cap. It looks like a set screw adjustment. To access it you must take off the bottom cover and locate that board I described. The book marks it as TC1. It may seem a little hidden behind some wires near the edge of the board. Look at the manual to make sure you have that correct component. That little TC1 will balance the 6146 pair electrically.

Don't forget to set the SG Switch when you are done.

Follow what the book says and you'll do fine as the rest of us have. If you neutralize it correctly, you'll like the results of the process. If it doesn't seem to work as well you'd expected, you can go back and neutralize again. It's no big deal.

Keep an extra set of tubes as a back up.

Many people believe you need matched pairs of tubes. You don't really need to. It's just easier to neutralize tubes that are closely matched.

That's the basics of the procedure for you Chris. Don't forget the information is also in our archives should you need it.

Chris HEmbree <w7cth@yahoo.com> wrote:
I am getting ready to do this to. My new tubes came in today. I have a 100mhz scope and a dummy load. What is the power tap that you are talking about?
I have a Kenwood 520 that I can rec on at the same time I neutraliz the 830.
I would like to know more on how you hooked up your scope and the t connection and wires.I have a rf probe and a meter I was going to try for fun.

Thanks
Chris.

nasa820 <nasa820@...> wrote: Neutralization Update

With the help of the members of this group, I found that hiding TC1 adjustment cap, jury rigged a T connection to the dummy load feed, wrapped about 15 turns of hookup wire around the power tap, hooked up my 20Mhz scope to the coupled hookup wire, and successfully neutralized the new finals the proper way in about 1 minute. Worked like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by far the best. No politics. No flaming. The speed is amazing - answers sometimes within minutes. And the volume of traffic blows away most of the others, even on new sexy pieces of equipment. This Kenwood line of gear obviously has a huge and active following. I love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----

> From: John Harp <ka3dpw@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now,
It's over at my Elmers. But it threw me off too. The radio as I recall
the adjustment is on the bottom. The picture when I once did the
neutralization I looked again at it because I had to figure out where
the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on
> > > to the neutralization process. Or was it?
> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >

> >
> >
> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?
> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10204. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 02:00:46 UTC
From: Chris HEmbree
Topic: 9948 Message: 10204

I have a set of tuning tools. But thank you very much for telling me this.
Chris..

David Rust <dlrust@...> wrote: Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so use an insulated screwdriver that won't short it out or send you across the room.
Dave W0DLR

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10205. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 02:08:03 UTC
From: Chris HEmbree
Topic: 9948 Message: 10205

Gordon told me this too. I have both and I will try it.
Thank you
Chris..

Bill Scurlock <k5gcw@...> wrote: Chris,

The easiest thing to do with your test equipment is to connect a coax TEE on the output of your radio, connect the dummy load to one side of the TEE fitting, and connect your scope lead to the other side of the TEE fitting. This lets your scope look at the voltage across the dummy load. For the scope connection I have a BNC adapter that allows me to connect the scope leads to individual connections that come out of the adapter. This is more dependable than using a separate receiver which sometimes picks up stray RF and confuses things. You can also use an RF Probe connected to the TEE and feed that signal to a sensitive Meter rather than using the scope. Or, you can stick in another TEE and feed both the scope and the RF Probe w/meter at the same time and see comparison readings. Have fun.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 12, 2006 10:38 PM
Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization

I am getting ready to do this to. My new tubes came in today. I have a 100mhz
scope and a dummy load. What is the power tap that you are talking about?
I have a Kenwood 520 that I can rec on at the same time I neutraliz the 830.
I would like to know more on how you hooked up your scope and the t connection and wires.I have a rf probe and a meter I was going to try for fun.

Thanks
Chris.

nasa820 <nasa820@...> wrote: Neutralization Update

With the help of the members of this group, I found that hiding TC1
adjustment cap, jury rigged a T connection to the dummy load feed,
wrapped about 15 turns of hookup wire around the power tap, hooked up
my 20Mhz scope to the coupled hookup wire, and successfully
neutralized the new finals the proper way in about 1 minute. Worked
like a charm and easy as pie. Now, I'm good to go kosher style!

This is a GREAT group! I belong to quite a few, and this one is by
far the best. No politics. No flaming. The speed is amazing -
answers sometimes within minutes. And the volume of traffic blows
away most of the others, even on new sexy pieces of equipment. This
Kenwood line of gear obviously has a huge and active following. I
love my 830, and obviously a lot of others do too.

Thanks again!

Bob
W7DDD

--- In TS-520_820_530_830@...m, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> There is a new pic that I sent to Walt with TC1 Neutralization Cap
clearly shown and marked.
> For the TS830S... Check out new uploaded pics it's there.
> Walt uploaded it to our database.... Ruben...KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> exracer1@...
> www.OneMillionAwake.com
>
>
>
> ----- Original Message ----
> From: John Harp <ka3dpw@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 10, 2006 7:52:29 PM
> Subject: Re: [TS-520_820_530_830] Re: 830 Neutralization
>
> Gordon as I recall nad I don't have my book here with me right now,
It's over at my Elmers. But it threw me off too. The radio as I recall
the adjustment is on the bottom. The picture when I once did the
neutralization I looked again at it because I had to figure out where
the adjustment was. That was what I was referring to. The diagrams.
>
> Gordon <n6wk@...> wrote: John,
> I don't understand what you just said. What is turned around ??
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@> wrote:
> >
> > Yes, and if you look at the pictures a little more carefully you'll
> see the unit is turned around. Don't fell bad I found that too.
> >
> > Gordon <n6wk@> wrote: --- In
> TS-520_820_530_ 830@yahoogroups. com, "nasa820" <nasa820@> wrote:
> > >
> > > I've been running my 830S for the last couple of years, and really
> > > like this xmtr. When my transmit power went to zero recently, I
found
> > > the output tubes had gone south. Not a problem; I have three sets of
> > > matched replacements. I installed a new set of GE 6146Bs. The tubes
> > > lit up, and I was able to tune up readily into a dummy load. Now, on

> > > to the neutralization process. Or was it?
> > >
> > > The Operating Manual says "adjust TC1, reached through the
adjustment
> > > hole in the top of the final section.)" No hole in the top of the
> > > cage (assume that's what they mean by the final section.) Two holes
> > > in the side - neither appear to go to anything like what I'm looking
> > > for. Service Manual shows TC1 in the middle of the PLL Unit - bottom
> > > of the xcvr. Yup, found that small adjustable cap. Just adjacent to
> > > T7-T12. Is that the puppy I'm supposed to be cranking on?
> > >
> > >
> > > Bob
> > > W7DDD
> > >
> >
> > NO, THAT IS NOT THE ONE !!
> >
> >
> >
> >
> >
> >
> > ------------ --------- --------- ---
> > Do you Yahoo!?
> > Get on board. You're invited to try the new Yahoo! Mail.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
> ------------ --------- --------- ---
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for
2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10206. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 02:05:08 UTC
From: Chris HEmbree
Topic: 9948 Message: 10206

I have one more thing to ask. Does the radio need to be tuned up first load, plate and drive. on 28.500 befor you Neutraliz. as if you were going to talk to someone on that freq. I feel like I ask the dumbest things..
Chris..

Gordon <n6wk@...> wrote: EXCELLENT advice Dave....

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
use an insulated screwdriver that won't short it out or send you
across the room.
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10207. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 02:29:26 UTC
From: David Rust
Topic: 9948 Message: 10207

Chris, No such thing as a dumb question. Only way I know we all learn. If you don't know be sure to ask. Your question, I'm not sure, I would assume you would tune it up and go from there.
Don't know what the manual says about that.
dlr

[Non-text portions of this message have been removed]

10208. Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 03:25:42 UTC
From: Gordon
Topic: 9948 Message: 10208

Yes chris,
Before hooking up the TEE, you would tune the rig as normal on
28.500 or 28.800 (either one works just fine)into a Dummy Load.
Then you would flip the SG switch to OFF, install the TEE and hook
up your Scope. Adjust for a Minimum signal when placing the sitch in
SEND without a Key installed on CW.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> I have one more thing to ask. Does the radio need to be tuned up
first load, plate and drive. on 28.500 befor you Neutraliz. as if you
were going to talk to someone on that freq. I feel like I ask the
dumbest things..
> Chris..
>
> Gordon <n6wk@...> wrote: EXCELLENT
advice Dave....
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
> use an insulated screwdriver that won't short it out or send you
> across the room.
> > Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]

>

10209. Re: [TS-520_820_530_830] Re : VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 03:36:25 UTC
From: Rick KC0HH
Topic: 10194 Message: 10209

Hi Max,

Went to a movie with my wife.....

Ok on the shorted switch ..It is supposed to short when the VFO cable is removed. Replaces the external plug required on the 820(S)... But it should open when you plug the remote VFO cable in. Check your Acc jack and see if the NO / Common line is shorted all the time. This is used as the keying line for an amplifier. You may have a 'welded' set of contacts points on the aux relay in the 830S used to key Acc jack.

Does the 230 work now as it should? When you push the VFO button on the 230, the 830S will assume the readout of the 230 and with the main button pushed, the VFO will track the 830S readout.

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: Problem solved!

I thought I would check the switch on the EXT VFO jack on the 830. I
was getting 9V on the VFO control line regardless of the cable in the
jack or not. I unsoldered the wire going from the switch to the VFO
control pin and voila it works. The switch is shorted!

Max

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10210. Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 04:15:48 UTC
From: Gordon
Topic: 9980 Message: 10210

I shipped all the remaining orders I had for Schottky Diodes Today.
If you wanted some and did NOT receive an email from me, Please
contact me Off-List.
Otherwise I believe All diodes are on their way or have already been
delivered. I do still have about 40 or 50 left from my last batch if
anyone still needs any.
I hope Everyone is as pleased with their rigs after installing the
Diodes as I Am !
73,
Gordon
N6WK

10211. Re: Re : VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 04:24:43 UTC
From: max_ve3tmt
Topic: 10194 Message: 10211

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Max,
>
> Went to a movie with my wife.....
>
> Ok on the shorted switch ..It is supposed to short when the VFO
cable is removed. Replaces the external plug required on the 820(S)...
But it should open when you plug the remote VFO cable in. Check your
Acc jack and see if the NO / Common line is shorted all the time.
This is used as the keying line for an amplifier. You may have a
'welded' set of contacts points on the aux relay in the 830S used to
key Acc jack.
>
> Does the 230 work now as it should? When you push the VFO button on
the 230, the 830S will assume the readout of the 230 and with the main
button pushed, the VFO will track the 830S readout.
>
> 73' Rick KC0HH

Hey Rick,

My wife is out of town til Sunday so I have lots of time to play
radio. I isolated the switch and measured the contacts with the plug
in and out. Dead short either way. When I plug the cable into the
remote jack (radio off of course) you can definitely feel that switch
working. No tension at all in the VFO jack switch. So as long as I
leave the VFO plugged into the radio all is well. I took the VFO
apart, gave it a nice scrub and proceeded to paint the cabinet the
gunmetal color to match the rest of the gear. Looks really nice. Very
glad to have it working.

Now, just to find an SM220 with pan adaptor!!

Max VE3TMT

10212. Re: [TS-520_820_530_830] Re: Re : VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 04:43:19 UTC
From: Rick KC0HH
Topic: 10194 Message: 10212

Hi Max,

Sounds good. Glad you got the VFO working, although it looks like you will have to start stacking equipment on your desk now...Hi
What do you think of the diode swap in the product detector? Noticable difference?

We ought to try 20 meters tomorrow sometime. I'll get on Kenwood QSO Group

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote:

Hey Rick,

My wife is out of town til Sunday so I have lots of time to play
radio. I isolated the switch and measured the contacts with the plug
in and out. Dead short either way. When I plug the cable into the
remote jack (radio off of course) you can definitely feel that switch
working. No tension at all in the VFO jack switch. So as long as I
leave the VFO plugged into the radio all is well. I took the VFO
apart, gave it a nice scrub and proceeded to paint the cabinet the
gunmetal color to match the rest of the gear. Looks really nice. Very
glad to have it working.

Now, just to find an SM220 with pan adaptor!!

Max VE3TMT

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10213. Re: New rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 09:39:16 UTC
From: ne0x@megapathdsl.net
Topic: 10145 Message: 10213

not exactly expanded for all of us, if your a cw op its shrinking, then
the show will fall, who needs cw??????? lets do away with it, ron ne0x
--
SUSE LINUX VERY NICE.....

10214. Re: [TS-520_820_530_830] TS830s Voltage problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 11:07:07 UTC
From: n9wb
Topic: 10187 Message: 10214

I am guessing that the meter is not reading correctly. On the rectifier unit, There is a tap labeled HV. This is the output to the HV meter. R-5 R-6 and R-7 are 680 K ohms each and form a series resistance totaling 2,040 K ohms or 2.04 meg ohms. R-8 is a 100 k ohm resistor to ground. This provides a voltage divider and provides the multimeter with the correct current and voltage to reflect the high voltage present at the tap 800.

I suspect that R-8 has increased in value and is causing your HV meter to read incorrectly. I would purchase new resistors for r-5 through R-8 and replace them. If after doing this, the meter still reads high, please let us know.

Vy 73, Walt N9WB

----- Original Message -----
From: David Rust
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 13, 2006 6:05 PM
Subject: Re: [TS-520_820_530_830] TS830s Voltage problem

I got the replacement HV capacitors today from DigiKey for the 830s, put them in and it works great. Got perfect audio reports on the Missouri traffic net. Only thing that puzzles me, now the HV appears a little high. Its full scale on the HV scale. Do I still have a problem?
Dave W0DLR

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.3/473 - Release Date: 10/12/06

[Non-text portions of this message have been removed]

10215. RE: [TS-520_820_530_830] Re: New rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 12:19:33 UTC
From: ballen
Topic: 10145 Message: 10215

I would not worry all that much, By virtue of the rules, CW can really be done ANYWHERE,

---

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ne0x@...
Sent: Saturday, October 14, 2006 5:39 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: New rules

not exactly expanded for all of us, if your a cw op its shrinking, then the show will fall, who needs cw??????? lets do away with it, ron ne0x
--
SUSE LINUX VERY NICE.....

[Non-text portions of this message have been removed]

10216. Re: [TS-520_820_530_830] Re: Unlit segment in Dig. Display

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 13:05:31 UTC
From: EA4BL
Topic: 10169 Message: 10216

Actually there´s another one unlit on the left side also!
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 13, 2006 4:24 PM
Subject: [TS-520_820_530_830] Re: Unlit segment in Dig. Display

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Both my 530s and 830s have an "unlit" digit on the far right hand
side of the display. You can shine a flashlight into the digital
display to the far right, and see what appears to be an unlit digit in
both of them. Instead of reading 3973.0 why doesn't it say 3973.00?
>
> It seems like I had a 430s one time that there was a say to turn
that last digit off or on.
> W0DLR

Well this certainly deserves some investigation. A few years ago I
acquired a mint FT107 station, except some of the segments in the
transceiver frequency display were starting to dim. So I built a new
display usning yellow LED's but at the same time I included a 10 Hz
LED that I wire to show as zero all the time. Although the digit
wasn't functional, it did make the readout look more modern. I am
going to look through the schematics of the 830 and see if this digit
can be turned on. I didnt think there was room in the front display to
see another digit. Can't verify, I'm at work!

Shhhh don't tell the boss!

Max VE3TMT

[Non-text portions of this message have been removed]

10217. Re: Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 16:30:04 UTC
From: harrycwleung
Topic: 9980 Message: 10217

Hi Gordon,

May I have one set of the matched Schottky Diodes? If it is suitable
for TS 520S, please let me know about the amount IOU. I'll send to
you by mail.

With best regards, de Harry VE3LCW.

-- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I shipped all the remaining orders I had for Schottky Diodes Today.
> If you wanted some and did NOT receive an email from me, Please
> contact me Off-List.
> Otherwise I believe All diodes are on their way or have already been
> delivered. I do still have about 40 or 50 left from my last batch if
> anyone still needs any.
> I hope Everyone is as pleased with their rigs after installing the
> Diodes as I Am !
> 73,
> Gordon
> N6WK
>

10218. The oscillators are driving me crazy!!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 16:39:11 UTC
From: max_ve3tmt
Topic: 10218 Message: 10218

I assume the receive noise should be somewhat similar sounding when switching between USB and LSB. One minute mine sounds fine, then the next the USB is very low and the LSB is very high. I go in and readjust the trimmers for the oscillaotrs and set it to normal and it is good for a bit, but then goes out again. Is it possible the trimmers are shot? What would cause both to go out?

TC2 and TC3 adjust the oscillators and VR2 or VR3 adjust the carrier points on TX. When the receive goes funny it is also affecting my TX signal. In USB mode my signal is very bassy and in LSB it is very tinny.

Help please, I am really getting tired of taking the covers off!

Max

10219. Re: New FCC Frequency Allocations

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 17:16:12 UTC
From: Ellen R
Topic: 10167 Message: 10219

Hi Rich,

Sure, it'd be great to QSO with you. 40 is kind of nuts, besides we may be too close for 40m, so we may have to do it on 30 or 20m. Let me know if you'd like to QSO, and when, and on what freq.?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Oh yes Ellen, you are also right on about 7040. I have a homebrew rock bound transmit 3 watt tranciever I built several years ago and all I have are 7009, 7025 and 7110 and 7124. The VFO works from 7000 to 7200. 7110 can get some nice DX QRP at times and of course 7130 but that has some horrible broadcast QRM most of the time here. My TR4 and the TS530 can idle down on CW to 5 watts no problem too. Hope to work you someday. Rich KG7FS
>
> Ellen R <ellenjoanne2003@...> wrote: Hi Rich,
>
> I ve been doing QRP since the mid 80s. Actually 7110 is only the QRP
> calling freq. for Novice, and Tech w/HF Priveleges operators. The
> main 40m QRP calling freq. in North America, is 7040, and there are
> plans to move it down to 7030, to bring it in line with the rest of
> the world (whihc uses 7030 for a QRP calling freq.).
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Rich Jones
> <michjonezee@> wrote:
> >
> > Very interesting about the 7125 allocation for voice. As a mostly
> CW operator, I often start my session at the rig with an afternoon
> visit to 7110, the CW QRP calling freq. If 7110 is quiet, I will
> call CQ at 6 to 8 WPM hoping for a novice to respond. This happens
> more than naught. I really like to help out new CW operators, wether
> novice or higher, it makes no differance. That pretty much leaves
> the slow operator 25 VS 50 kc's to make a connection. Granted,
> between 7125 and 7150 is heavy with Broadcast, I suppose it will be a
> challange for SSB as well as it was for the CW operator. I probably

> have made and or heard no more than a dozen contacts over the last
15
> years between 25 and 50. My 2 cents, Rich
> >
> > Ruben Echevarria <ka2hhb_2000@> wrote:
> In ''refarming' ' the frequencies currently authorized to Novice and
> > Technician Plus licensees,
> >
> > The Commission increased the voice segments for General, Advanced
> > and Amateur Extra licensees.
> >
> > On 75 meters, Generals will be able to use voice from 3800-4000
kHz,
> > an increase of 50 kHz.
> >
> > Advanced class licensees will be able to use
> > voice from 3700-4000, an increase of 75 kHz,
> >
> > Amateur Extras will be able to use voice from 3600 to 4000 kHz,
> > a generous increase of 150 kHz.
> >
> > On 40 meters, Advanced and Extra Class licensees will be able to
use
> > voice from 7125-7300 kHz, an increase of 25 kHz.
> >
> > General class licensees will be able to use voice on 7175-7300
kHz,
> an increase of
> > 50 kHz.
> >
> > On 15 meters, General class operators will have phone privileges
on
> > 21275-21450 kHz, an increase of 25 kHz.
> >
> > To become official once they are published by the Commission.
> >
> > Ruben Echevarria
> > ka2hhb_2000@
> > exracer1@
> > www.OneMillionAwake.com
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around

> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>

10220. Question about the kenwood sm220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 17:54:33 UTC
From: kobeluren
Topic: 10220 Message: 10220

Does the stationmonitor, which I understand is designed for the 520 & 820s, work along with k830 s? Or is there a sm230?

73 de lb4cd, norway

10221. Re: The oscillators are driving me crazy!!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 18:25:17 UTC
From: Gordon
Topic: 10218 Message: 10221

Sounds like a bad contact or bad connection. Perhaps VR2 is dirty ??

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> I assume the receive noise should be somewhat similar sounding when
> switching between USB and LSB. One minute mine sounds fine, then the
> next the USB is very low and the LSB is very high. I go in and
> readjust the trimmers for the oscillaotrs and set it to normal and it
> is good for a bit, but then goes out again. Is it possible the
> trimmers are shot? What would cause both to go out?
>
> TC2 and TC3 adjust the oscillators and VR2 or VR3 adjust the carrier
> points on TX. When the receive goes funny it is also affecting my TX
> signal. In USB mode my signal is very bassy and in LSB it is very tinny.
>
> Help please, I am really getting tired of taking the covers off!
>
> Max
>

10222. Re: Question about the kenwood sm220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 19:22:22 UTC
From: max_ve3tmt
Topic: 10220 Message: 10222

--- In TS-520_820_530_830@yahoogroups.com, "kobeluren"
<ola_matti99@...> wrote:
>
> Does the stationmonitor, which I understand is designed for the 520 &
> 820s, work along with k830 s? Or is there a sm230?
>
> 73 de lb4cd, norway
>

The SM220 works quite nicely with the TS830. If it has the BS8
panadaptor built in it will work as a band scope with the 830.

Max

10223. trio vfo820------Ts830m transverter plug/skt

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 19:57:44 UTC
From: budgiebob2005
Topic: 10223 Message: 10223

Hello I use this with a 520se .Reading the file note on the vfo link cable Iread that the connecting cable to pin 1 should be center off earth /screened coax earth being p2. looking at my cable which appears original as connectors at each end are marked made in japan and have screw covers my cable has unscreened wires between each off these pins. My unit works well however the note on V F O is not as good as main rig . has the lead as mentioned any bearing on this i e was the coax link a mod ?
Where can I find a Circuit off V F O 820? tried all usual sites .

TS830m iwant to conect transverter to rear.This socket is designated in parts list 8 pin D I N I have din plug purchased in uk which will not fit! is this plug a special? I note it also operates switch over using switch on rear off skt not sure how!
Inf and source off plug appreciated regards Bob G8ACQ

10224. New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 20:26:12 UTC
From: TS-520_820_530_830@yahoogroups.com
Topic: 262 Message: 10224

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /VFO-820_Schematic.jpg
Uploaded by : max_ve3tmt <max_ve3tmt@...>
Description : Schematic of VFO-820

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/VFO-820_Schematic.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

max_ve3tmt <max_ve3tmt@...>

10225. Re: [TS-520_820_530_830] trio vfo820------Ts830m transverter plug/skt

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 20:25:56 UTC
From: N6WK
Topic: 10223 Message: 10225

Check here. The VFO 820 Circuit is listed. Free Downloads.
http://www.n6wk.com/kenwood/
73,
Gordon

budgiebob2005 wrote:

> Hello I use this with a 520se .Reading the file note on the vfo link
> cable Iread that the connecting cable to pin 1 should be center off
> earth /screened coax earth being p2. looking at my cable which appears
> original as connectors at each end are marked made in japan and have
> screw covers my cable has unscreened wires between each off these pins.
> My unit works well however the note on V F O is not as good as main
> rig . has the lead as mentioned any bearing on this i e was the coax
> link a mod ?
> Where can I find a Circuit off V F O 820? tried all usual sites .
>
> TS830m iwant to conect transverter to rear.This socket is designated
> in parts list 8 pin D I N I have din plug purchased in uk which
> will not fit! is this plug a special? I note it also operates
> switch over using switch on rear off skt not sure how!
> Inf and source off plug appreciated regards Bob G8ACQ
>
>

[Non-text portions of this message have been removed]

10226. Re: Question about the kenwood sm220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 20:50:47 UTC
From: kobeluren
Topic: 10220 Message: 10226

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "kobeluren"
> <ola_matti99@> wrote:
> >
> > Does the stationmonitor, which I understand is designed for the
520 &
> > 820s, work along with k830 s? Or is there a sm230?
> >
> > 73 de lb4cd, norway
> >
>
> The SM220 works quite nicely with the TS830. If it has the BS8
> panadaptor built in it will work as a band scope with the 830.
>
> Max
>
Thanks. I am working to get the line complete!
Lb4cd

10227. Re: [TS-520_820_530_830] Re: Question about the kenwood sm220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 23:10:40 UTC
From: Peter A Markavage
Topic: 10220 Message: 10227

And, as a transmitter monitor, it will work with any transmitter.

Pete, wa2cwa

On Sat, 14 Oct 2006 19:22:22 -0000 "max_ve3tmt" <max_ve3tmt@...>
writes:
> --- In TS-520_820_530_830@yahoogroups.com, "kobeluren"
> <ola_matti99@...> wrote:
> >
> > Does the stationmonitor, which I understand is designed for the
> 520 &
> > 820s, work along with k830 s? Or is there a sm230?
> >
> > 73 de lb4cd, norway
> >
>
> The SM220 works quite nicely with the TS830. If it has the BS8
> panadaptor built in it will work as a band scope with the 830.
>
> Max

10228. Re: Question about the kenwood sm220

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 23:32:34 UTC
From: max_ve3tmt
Topic: 10220 Message: 10228

--- In TS-520_820_530_830@yahoogroups.com, "kobeluren"
<ola_matti99@...> wrote:

> Thanks. I am working to get the line complete!
> Lb4cd
>

Me too! All I need for my 830 line is the SM220.

Max VE3TMT

10229. Re: [TS-520_820_530_830] The oscillators are driving me crazy!!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 23:38:44 UTC
From: Rick KC0HH
Topic: 10218 Message: 10229

Hi Max,

If you wiggle your IF Shift knob does the audio change pitch? I wonder if it is dirty. Of course that would not affect the transmit. I doubt if both ceramic caps could be bad. Dirty VR2 would not affect receive either. Weird isn't it....

I would not adjust my oscillators by comparing white noise on either sideband.
It is probably late enough for you to listen to a AM broadcast station and switch back and forth between USB and LSB..They should sound identical. The station should be within a couple of hertz of being on frequency. Find the BBC or CBS..Something you know. I wouldn't trust Radio Somalia....

Look at Rich Measures', AG6K, article about Circuit Improvement and Maintenence. At the very end of the article concerning Maintenence he goes through aligning the carrier oscillators using the calibrate signal....
Another way to do it is if you have a signal generator, and transmit tones thru to set your passbands

73' Rick KC0HH
.

max_ve3tmt <max_ve3tmt@...> wrote: I assume the receive noise should be somewhat similar sounding when
switching between USB and LSB. One minute mine sounds fine, then the
next the USB is very low and the LSB is very high. I go in and
readjust the trimmers for the oscillaotrs and set it to normal and it
is good for a bit, but then goes out again. Is it possible the
trimmers are shot? What would cause both to go out?

TC2 and TC3 adjust the oscillators and VR2 or VR3 adjust the carrier
points on TX. When the receive goes funny it is also affecting my TX
signal. In USB mode my signal is very bassy and in LSB it is very tinny.

Help please, I am really getting tired of taking the covers off!

Max

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10230. Re: [TS-520_820_530_830] Our radios..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-14 23:56:45 UTC
From: David Rust
Topic: 10230 Message: 10230

I was at the Springfield, Mo hamfest today, I saw a nice 520s for $250 obo, a 530s for $325 and an 830s for $375. None of the three sold, however, I did hang around the table with the 530s and 830s and met several fellows that had nothing but praise for these radios. I saw a nice TL922 for $750. didnt sell.

One gent had been an AM station engineer, and said he had owned both a 530s and 830s, and should have never parted with them.

Its apparent that anyone that has one, loves it, and anyone that has parted with one in the past knows he made a mistake. Just my .02 cents worth. Hope everyone has a good weekend, its been super beautiful here in the Ozarks.
73 Dave W0DLR

[Non-text portions of this message have been removed]

10231. Re: The oscillators are driving me crazy!!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 00:11:35 UTC
From: max_ve3tmt
Topic: 10218 Message: 10231

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Max,
>
> If you wiggle your IF Shift knob does the audio change pitch? I wonder if it is dirty. Of course that would not affect the transmit. I doubt if both ceramic caps could be bad. Dirty VR2 would not affect receive either. Weird isn't it....

I gave everything a good cleaning today and so far so good. I think the oscillator trimmers may have been dirty. I need to invest in a good frequency counter! I'll check out Rich's article, but for now I'm not opening it up again. I strung up an 80m longwire this evening and am sitting here copying 40 over signals and watching the NASCAR race.

Max

10232. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 02:47:49 UTC
From: John Harp
Topic: 9948 Message: 10232

That's ok Chris I'd rather hear a dumb thing this way than something more serious. Glad to help what I can.

Go with Gordons way if you have the resources. Sometimes in life I have to makeshift since somethings aren't available to me.

Gordons probably a little more knowledgeable than me sometimes. We all work together to provide someone like you the best we can give. I at times didn't have a scope or a second radio or a sensitive VTVM. All I had was no money and a cheap CB/SWR meter with a FSM in it. Then I got the job done with that.

Right now I don't have my manual here to make sure my answer is correct. As I recall the neutralization process requires no adjustments of the 830. moving the SG Switch seems to set the 830 in another mode for the process.

Chris HEmbree <w7cth@yahoo.com> wrote:
I have one more thing to ask. Does the radio need to be tuned up first load, plate and drive. on 28.500 befor you Neutraliz. as if you were going to talk to someone on that freq. I feel like I ask the dumbest things..
Chris..

Gordon <n6wk@...> wrote: EXCELLENT advice Dave....

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
use an insulated screwdriver that won't short it out or send you
across the room.
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10233. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 02:50:30 UTC
From: John Harp
Topic: 9948 Message: 10233

Thank You Gordon. I couldn't remember.

Gordon <n6wk@...> wrote: Yes chris,
Before hooking up the TEE, you would tune the rig as normal on
28.500 or 28.800 (either one works just fine)into a Dummy Load.
Then you would flip the SG switch to OFF, install the TEE and hook
up your Scope. Adjust for a Minimum signal when placing the sitch in
SEND without a Key installed on CW.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> I have one more thing to ask. Does the radio need to be tuned up
first load, plate and drive. on 28.500 befor you Neutraliz. as if you
were going to talk to someone on that freq. I feel like I ask the
dumbest things..
> Chris..
>
> Gordon <n6wk@...> wrote: EXCELLENT
advice Dave....
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
> use an insulated screwdriver that won't short it out or send you
> across the room.
> > Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>

> [Non-text portions of this message have been removed]
>

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10234. TS-830S PD Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 04:40:58 UTC
From: jsloss
Topic: 10234 Message: 10234

Have installed the Schottky diode mod and the addition of a 100 ohm 1/4W between R-75 and R-76 and ground in the IF unit. Using a Fluke DVM and RF probe I measure about .002 V across the 100 ohm resistor. Tweaking L19 and L20 does not seem to have much effect except to lower audio. Am trying for the 600 mv level per Measures mods. Would someone care to walk me thru it.

Thanks
Joe k7mks

[Non-text portions of this message have been removed]

10235. Re: [TS-520_820_530_830] The oscillators are driving me crazy!!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 05:44:48 UTC
From: Bill Scurlock
Topic: 10218 Message: 10235

Hi Max.

I see I'm getting in on this subject a little late, but if you haven't solved the problem already, you might check the 9V supply stability. I think I remember listening to the receiver frequency changing as I adjusted the 9V set point on my radio. This may or may not cause the symptoms you are experiencing. Good Luck.

73, Bill, K5GCW
----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 14, 2006 11:39 AM
Subject: [TS-520_820_530_830] The oscillators are driving me crazy!!!!!

I assume the receive noise should be somewhat similar sounding when
switching between USB and LSB. One minute mine sounds fine, then the
next the USB is very low and the LSB is very high. I go in and
readjust the trimmers for the oscillaotrs and set it to normal and it
is good for a bit, but then goes out again. Is it possible the
trimmers are shot? What would cause both to go out?

TC2 and TC3 adjust the oscillators and VR2 or VR3 adjust the carrier
points on TX. When the receive goes funny it is also affecting my TX
signal. In USB mode my signal is very bassy and in LSB it is very tinny.

Help please, I am really getting tired of taking the covers off!

Max

[Non-text portions of this message have been removed]

10236. Re: The oscillators are driving me crazy!!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 06:40:52 UTC
From: max_ve3tmt
Topic: 10218 Message: 10236

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hi Max.
>
> I see I'm getting in on this subject a little late, but if you
haven't solved the problem already, you might check the 9V supply
stability. I think I remember listening to the receiver frequency
changing as I adjusted the 9V set point on my radio. This may or may
not cause the symptoms you are experiencing. Good Luck.

Hi Bill,

I checked and adjusted bot the 9V and 3.6V voltages on the AF unit. I
cleaned all the trimmers and pots today and so far it is behaving
normally. I think the xtal trimmers TC2 and TC3 on the PLL board were
dirty. Thanks for the suggestion.

Max

10237. Re: [TS-520_820_530_830] TS-830S PD Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 08:48:26 UTC
From: n9wb
Topic: 10234 Message: 10237

The fluke will not read RF ACV. You need an RF probe or a scope.

However, I am not sure that I agree that L-19 and L-20 should be detuned for 600 MV. I would try peaking them for maximum receive audio. I doubt that doing so will cause a problem with the new diodes and the 100 ohm resistor installed, but if it does, I would be tempted to lower the value of the 100 ohm resistor instead.

Gordon, do you or Max have any comment on this?

Vy 73, Walt N9WB

----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 14, 2006 11:40 PM
Subject: [TS-520_820_530_830] TS-830S PD Mod

Have installed the Schottky diode mod and the addition of a 100 ohm 1/4W between R-75 and R-76 and ground in the IF unit. Using a Fluke DVM and RF probe I measure about .002 V across the 100 ohm resistor. Tweaking L19 and L20 does not seem to have much effect except to lower audio. Am trying for the 600 mv level per Measures mods. Would someone care to walk me thru it.

Thanks
Joe k7mks

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/475 - Release Date: 10/13/06

[Non-text portions of this message have been removed]

10238. Re: [TS-520_820_530_830] New file uploaded to TS-520_820_530_830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 09:25:33 UTC
From: n9wb
Topic: 557 Message: 10238

Thank You Max!
----- Original Message -----
From: TS-520_820_530_830@yahoogroups.com
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 14, 2006 3:26 PM
Subject: [TS-520_820_530_830] New file uploaded to TS-520_820_530_830

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the TS-520_820_530_830
group.

File : /VFO-820_Schematic.jpg
Uploaded by : max_ve3tmt <max_ve3tmt@...>
Description : Schematic of VFO-820

You can access this file at the URL:
http://groups.yahoo.com/group/TS-520_820_530_830/files/VFO-820_Schematic.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

max_ve3tmt <max_ve3tmt@...>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/475 - Release Date: 10/13/06

[Non-text portions of this message have been removed]

10239. 820 Keyed the mic and meter went full scale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 04:42:51 UTC
From: Chris
Topic: 10239 Message: 10239

and blew the fuse . No burning smell or anything . I think i have at least one of the amp tubes broke under the cap . Could my tubes just have bit the dust and when . I bumped the mic button she poped the fuse?

10240. Re: [TS-520_820_530_830] 820 Keyed the mic and meter went full scale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 10:03:36 UTC
From: n9wb
Topic: 10239 Message: 10240

Probably you lost your tubes. You likely opened or damaged R-2 and R-3 on the final board. R-2 and R-3 are connected in parallel in series with the cathode and are 10 ohm 1 watt each for a parallel value of 5 ohms. Use only a 1 watt resistor here, no larger or smaller wattage. Do not use wire wound. Carbon, carbon film or metal film are OK.

I personally like the ECG Phillips tubes that RF parts sells.

Be sure you replace the fuse with the correct value. You might want to make a light bulb tester for your initial tests. See Save your transformer in the files section of this group.

You will need to neutralize after installing the new tubes.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 14, 2006 11:42 PM
Subject: [TS-520_820_530_830] 820 Keyed the mic and meter went full scale

and blew the fuse . No burning smell or anything . I think i have at
least one of the amp tubes broke under the cap . Could my tubes just
have bit the dust and when . I bumped the mic button she poped the
fuse?

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/476 - Release Date: 10/14/06

[Non-text portions of this message have been removed]

10241. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 14:01:03 UTC
From: Chris HEmbree
Topic: 9948 Message: 10241

I got lucky about 20 years ago. I picked up a 4 channel 100mhz scope. Scope works like new even now.
Chris..

John Harp <ka3dpw@...> wrote: That's ok Chris I'd rather hear a dumb thing this way than something more serious. Glad to help what I can.

Go with Gordons way if you have the resources. Sometimes in life I have to makeshift since somethings aren't available to me.

Gordons probably a little more knowledgeable than me sometimes. We all work together to provide someone like you the best we can give. I at times didn't have a scope or a second radio or a sensitive VTVM. All I had was no money and a cheap CB/SWR meter with a FSM in it. Then I got the job done with that.

Right now I don't have my manual here to make sure my answer is correct. As I recall the neutralization process requires no adjustments of the 830. moving the SG Switch seems to set the 830 in another mode for the process.

Chris HEmbree <w7cth@...> wrote:
I have one more thing to ask. Does the radio need to be tuned up first load, plate and drive. on 28.500 befor you Neutraliz. as if you were going to talk to someone on that freq. I feel like I ask the dumbest things..
Chris..

Gordon <n6wk@...> wrote: EXCELLENT advice Dave....

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
use an insulated screwdriver that won't short it out or send you
across the room.
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10242. Re: [TS-520_820_530_830] TS-830S PD Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 14:18:00 UTC
From: Chris HEmbree
Topic: 10234 Message: 10242

I have the parts in for this Mod, have not tuned it yet. What type of problem will you see for maximum and how much lower should you go on the load resistor?If you change the load resistor should you see about 600mv p-p.
Chris
n9wb <n9wb@...> wrote: The fluke will not read RF ACV. You need an RF probe or a scope.

However, I am not sure that I agree that L-19 and L-20 should be detuned for 600 MV. I would try peaking them for maximum receive audio. I doubt that doing so will cause a problem with the new diodes and the 100 ohm resistor installed, but if it does, I would be tempted to lower the value of the 100 ohm resistor instead.

Gordon, do you or Max have any comment on this?

Vy 73, Walt N9WB

----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 14, 2006 11:40 PM
Subject: [TS-520_820_530_830] TS-830S PD Mod

Have installed the Schottky diode mod and the addition of a 100 ohm 1/4W between R-75 and R-76 and ground in the IF unit. Using a Fluke DVM and RF probe I measure about .002 V across the 100 ohm resistor. Tweaking L19 and L20 does not seem to have much effect except to lower audio. Am trying for the 600 mv level per Measures mods. Would someone care to walk me thru it.

Thanks
Joe k7mks

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/475 - Release Date: 10/13/06

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10243. Re: [TS-520_820_530_830] TS-830S PD Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 13:57:52 UTC
From: jsloss
Topic: 10234 Message: 10243

Walt: I did use a RF probe when measuring voltage across the 100 ohm resistor.

Joe k7mks
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 15, 2006 1:48 AM
Subject: Re: [TS-520_820_530_830] TS-830S PD Mod

The fluke will not read RF ACV. You need an RF probe or a scope.

However, I am not sure that I agree that L-19 and L-20 should be detuned for 600 MV. I would try peaking them for maximum receive audio. I doubt that doing so will cause a problem with the new diodes and the 100 ohm resistor installed, but if it does, I would be tempted to lower the value of the 100 ohm resistor instead.

Gordon, do you or Max have any comment on this?

Vy 73, Walt N9WB

----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 14, 2006 11:40 PM
Subject: [TS-520_820_530_830] TS-830S PD Mod

Have installed the Schottky diode mod and the addition of a 100 ohm 1/4W between R-75 and R-76 and ground in the IF unit. Using a Fluke DVM and RF probe I measure about .002 V across the 100 ohm resistor. Tweaking L19 and L20 does not seem to have much effect except to lower audio. Am trying for the 600 mv level per Measures mods. Would someone care to walk me thru it.

Thanks
Joe k7mks

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/475 - Release Date: 10/13/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10244. Re: [TS-520_820_530_830] TS-830S PD Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 16:45:15 UTC
From: N6WK
Topic: 10234 Message: 10244

After I performed the Product detector Diode Mod, I found that by
peaking L19 and L20 gave me approximently 900mv accross the Resistor.
The radio appeared to work just fine by Peaking these coils. However, I
was following the Mod article exactly, So I alternately adjusted L19
and L20 with my Scope to get 600mv PEAK to PEAK from Pin 4 of
connector-11 to Ground.
Joe, Do you have the Fluke set to read AC volts ??

Gordon

Chris HEmbree wrote:

> I have the parts in for this Mod, have not tuned it yet. What type of
> problem will you see for maximum and how much lower should you go on
> the load resistor?If you change the load resistor should you see about
> 600mv p-p.
> Chris
> n9wb <n9wb@... <mailto:n9wb%40nltc.net>> wrote: The fluke will
> not read RF ACV. You need an RF probe or a scope.
>
> However, I am not sure that I agree that L-19 and L-20 should be
> detuned for 600 MV. I would try peaking them for maximum receive
> audio. I doubt that doing so will cause a problem with the new diodes
> and the 100 ohm resistor installed, but if it does, I would be tempted
> to lower the value of the 100 ohm resistor instead.
>
> Gordon, do you or Max have any comment on this?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: jsloss
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, October 14, 2006 11:40 PM
> Subject: [TS-520_820_530_830] TS-830S PD Mod
>
> Have installed the Schottky diode mod and the addition of a 100 ohm
> 1/4W between R-75 and R-76 and ground in the IF unit. Using a Fluke
> DVM and RF probe I measure about .002 V across the 100 ohm resistor.
> Tweaking L19 and L20 does not seem to have much effect except to lower
> audio. Am trying for the 600 mv level per Measures mods. Would someone
> care to walk me thru it.
>
> Thanks
> Joe k7mks

>
> [Non-text portions of this message have been removed]
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.4/475 - Release Date: 10/13/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---
> Get your own web address for just $1.99/1st yr. We'll help. Yahoo!
> Small Business.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10245. Re: TS-830S PD Mod

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 16:53:27 UTC
From: Gordon
Topic: 10234 Message: 10245

That is strange Joe. You should be reading around .600 AC volts with your RF probe. I used a scope, but still, a DVM with an RF probe should work just fine also. I just remembered, If you have an RF probe, I do believe you must have your Meter in DC to read it.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Have installed the Schottky diode mod and the addition of a 100 ohm 1/4W between R-75 and R-76 and ground in the IF unit. Using a Fluke DVM and RF probe I measure about .002 V across the 100 ohm resistor. Tweaking L19 and L20 does not seem to have much effect except to lower audio. Am trying for the 600 mv level per Measures mods. Would someone care to walk me thru it.
>
> Thanks
> Joe k7mks
>
>
> [Non-text portions of this message have been removed]
>

10246. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes, noise reduction and signal to noise ratio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 17:09:50 UTC
From: Dave and Loraine
Topic: 10246 Message: 10246

Hi all,
I've just taken some measurements of audio voltages rather than RF, because it's easier and audio
is what we hear.
Standard conditions: Un-modified TS-820S, RF max, AF "2"=9 o'clock, Drive peaked, AGC off, freq. 14.3MHz, inverted V dipole, 18h00 local,
scope voltage taken across 50 ohm resistor across Phones socket.

Results
Dummy load: 0.05V
Sky noise: 0.4V
Weak signal: 0.4V

No-signal sky noise is 8x my receiver noise.
SSB weak signal is 8x my receiver noise. (+18 dB?)

If this seems unusual, maybe someone can measure their voltages under similar conditions.
If normal, it seems that sky noise and weak signals will swamp receiver noise.

I've always considered my receiver audio to be noisy.
I was all set to do the Inrad RF and IF mosfets swap and maybe the diodes swap.
I'm sure the radio would be quieter but sky noise will still be there.
Maybe I should leave well alone...
Any thoughts or measurements would be appreciated.

73 Dave F4EYK

10247. TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 18:16:10 UTC
From: digs4ruff
Topic: 10247 Message: 10247

Well I finally have the TS-510 in my shop and have the covers off doing some cleanup and painting. Over all the rig is in not bad shape with some dirt and rust on the covers and chassis.

One of the diode rectifiers in the PS has been replaced. The originals are SE-05's and the replacement is a 1N4004. When I look both of these up on NTEs cross reference I get NTE116 as the cross reference. Can I assume that the 1N4004 is a substitute for the SE-05? All diodes check good with the Ohmeter but am wondering if the SE-05s should be replaced while the PS is dismantled.

On checking the PS electrolytic capacitors with a Heathkit C-3 which is calibrated using new electrolytics the PS 47uf caps are reading about 35uf and the 100uf caps are reading about 55uf. No leaks or shorts. Are these still considered serviceable or would I need to use a scope to read the amount of ripple to judge if they need replacing. I don't have a scope so could I use an AC voltmeter across the cap to measure the ripple.

Just the first of many questions but hopefully with adequate photos and records I may help the next lucky person to acquire one of these fine rigs.

TIA
Barry
VA7GEM

10248. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes, noise reduction and signal to noise ratio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 18:48:12 UTC
From: Bill Scurlock
Topic: 10246 Message: 10248

Dave,

I discussed this same question and situation with one of the people who do Kenwood repairs. He said the same thing - that atmospheric/sky noise will more than cover up the internal radio noise. He has never considered it necessary to replace the 1N60 diodes. I did not make any "before & after" measurements so I don't know what I achieved. But, I did change out the balanced modulator and product detector diodes in two 830's and one 530, and I am happy with the results even though I have no documentation as to what I achieved. I'm going to be considering the same change in a TS-520 in a few weeks, and I am going to try to figure out a way to evaluate the results before I do it. Thanks for sharing your measurements.

73, Bill, K5GCW
----- Original Message -----
From: Dave and Loraine
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 15, 2006 12:09 PM
Subject: Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes, noise reduction and signal to noise ratio

Hi all,
I've just taken some measurements of audio voltages rather than RF, because it's easier and audio
is what we hear.
Standard conditions: Un-modified TS-820S, RF max, AF "2"=9 o'clock, Drive peaked, AGC off, freq. 14.3MHz, inverted V dipole, 18h00 local,
scope voltage taken across 50 ohm resistor across Phones socket.

Results
Dummy load: 0.05V
Sky noise: 0.4V
Weak signal: 0.4V

No-signal sky noise is 8x my receiver noise.
SSB weak signal is 8x my receiver noise. (+18 dB?)

If this seems unusual, maybe someone can measure their voltages under similar conditions.
If normal, it seems that sky noise and weak signals will swamp receiver noise.

I've always considered my receiver audio to be noisy.
I was all set to do the Inrad RF and IF mosfets swap and maybe the diodes swap.
I'm sure the radio would be quieter but sky noise will still be there.
Maybe I should leave well alone...
Any thoughts or measurements would be appreciated.

73 Dave F4EYK

[Non-text portions of this message have been removed]

10249. TS 520 no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 18:52:43 UTC
From: PERRY
Topic: 10249 Message: 10249

Hello

I have a TS 520, No TX,-- I can inject a signal (8.615 mhz) at Point TIF. on the RF unit that comes from the IF filter board. and The Transmitter works OK
Going back to the IF filter board.. AT Q2 the vfo mixer using an ocilloscope at the Gates of this transistor My VFO gives me about 2.4 v p-p.. The Car sig (3.395) I only have about .5 v P-P. My guess this is too low...
I go to the Car input point on the Filter IF bd. I get over 2 v pp but the other side of the first transformer T1 it drops a lot..
Q1 on the filter bd boosts it back up before C18 that goes to TP1 then its .5 again..
Not sure if the VFO and the Car signals need to be about the same level at the Gates of the VFO mixer Q2 for it to work or not ?
This is the point I loose the TX (i think)
I have the Level Diagram of the service manual PG 10, just not sure what the levels of the two are at this point.

Confused in Gaines, Michigan
Perry WA8THK

10250. Re: [TS-520_820_530_830] TS 520 no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 19:44:45 UTC
From: N6WK
Topic: 10249 Message: 10250

Perry,
Check R9 and R10 on the rectifier Board. One is probably open. Most likely R10
I'd like to be of more help, But I have a Terrible copy of the 520 Schematic.

Gordon
N6WK

PERRY wrote:

> Hello
>
> I have a TS 520, No TX,-- I can inject a signal (8.615 mhz) at Point
> TIF. on the RF unit that comes from the IF filter board. and The
> Transmitter works OK
> Going back to the IF filter board.. AT Q2 the vfo mixer using an
> ocilloscope at the Gates of this transistor My VFO gives me about
> 2.4 v p-p.. The Car sig (3.395) I only have about .5 v P-P. My
> guess this is too low...
> I go to the Car input point on the Filter IF bd. I get over 2 v pp
> but the other side of the first transformer T1 it drops a lot..
> Q1 on the filter bd boosts it back up before C18 that goes to TP1
> then its .5 again..
> Not sure if the VFO and the Car signals need to be about the same
> level at the Gates of the VFO mixer Q2 for it to work or not ?
> This is the point I loose the TX (i think)
> I have the Level Diagram of the service manual PG 10, just not
> sure what the levels of the two are at this point.
>
> Confused in Gaines, Michigan
> Perry WA8THK
>
>

[Non-text portions of this message have been removed]

10251. Re: [TS-520_820_530_830] TS 520 no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 20:07:22 UTC
From: N6WK
Topic: 10249 Message: 10251

I just noticed something here. I have two different schematics that are
labeled 520 right from a scan out of the manual.
One shows R9 and R10 on the rectifier board to feed the STB circuit.

The other does NOT show these Resistors on the Rectifier Board. It shows
them some where between the rectifier Board and the AF board and they
are labeled R16 and R17. In both cases they are 100k Resistors.
I'm confused now !!

73,
Gordon

N6WK wrote:

> Perry,
> Check R9 and R10 on the rectifier Board. One is probably open. Most
> likely R10
> I'd like to be of more help, But I have a Terrible copy of the 520
> Schematic.
>
> Gordon
> N6WK
>
> PERRY wrote:
>
> > Hello
> >
> > I have a TS 520, No TX,-- I can inject a signal (8.615 mhz) at Point
> > TIF. on the RF unit that comes from the IF filter board. and The
> > Transmitter works OK
> > Going back to the IF filter board.. AT Q2 the vfo mixer using an
> > ocilloscope at the Gates of this transistor My VFO gives me about
> > 2.4 v p-p.. The Car sig (3.395) I only have about .5 v P-P. My
> > guess this is too low...
> > I go to the Car input point on the Filter IF bd. I get over 2 v pp
> > but the other side of the first transformer T1 it drops a lot..
> > Q1 on the filter bd boosts it back up before C18 that goes to TP1
> > then its .5 again..
> > Not sure if the VFO and the Car signals need to be about the same
> > level at the Gates of the VFO mixer Q2 for it to work or not ?
> > This is the point I loose the TX (i think)
> > I have the Level Diagram of the service manual PG 10, just not
> > sure what the levels of the two are at this point.
> >
> > Confused in Gaines, Michigan
> > Perry WA8THK

> >
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10252. Re: TS 520 no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 20:19:01 UTC
From: PERRY
Topic: 10249 Message: 10252

Thanks Gordon
The rectifier bd only has 8 resistors.
I have all the voltages
and are correct value
My Schematic are on PDF files and are not too bad
it I resize them.
Just a pain to work with

Perry

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Perry,
> Check R9 and R10 on the rectifier Board. One is probably open.
Most
> likely R10
> I'd like to be of more help, But I have a Terrible copy of the 520
> Schematic.
>
>
> Gordon
> N6WK
>
>
>
>
>
>
> PERRY wrote:
>
> > Hello
> >
> > I have a TS 520, No TX,-- I can inject a signal (8.615 mhz) at
Point
> > TIF. on the RF unit that comes from the IF filter board. and The
> > Transmitter works OK
> > Going back to the IF filter board.. AT Q2 the vfo mixer using an
> > ocilloscope at the Gates of this transistor My VFO gives me about
> > 2.4 v p-p.. The Car sig (3.395) I only have about .5 v P-P. My
> > guess this is too low...
> > I go to the Car input point on the Filter IF bd. I get over 2 v pp
> > but the other side of the first transformer T1 it drops a lot..
> > Q1 on the filter bd boosts it back up before C18 that goes to TP1
> > then its .5 again..
> > Not sure if the VFO and the Car signals need to be about the same

> > level at the Gates of the VFO mixer Q2 for it to work or not ?
> > This is the point I loose the TX (i think)
> > I have the Level Diagram of the service manual PG 10, just not
> > sure what the levels of the two are at this point.
> >
> > Confused in Gaines, Michigan
> > Perry WA8THK
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10253. Re: [TS-520_820_530_830] Re: TS 520 no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 20:43:56 UTC
From: N6WK
Topic: 10249 Message: 10253

Hi Perry, Yes I have conflicting Schematics here. You need to look for
R16 and R17. Looks like they are somewhere between boards.
They come off the 210A circuit and are beetween it and the STB terminal
on the AF board.

Sorry for the confusion.

Gordon

PERRY wrote:

> Thanks Gordon
> The rectifier bd only has 8 resistors.
> I have all the voltages
> and are correct value
> My Schematic are on PDF files and are not too bad
> it I resize them.
> Just a pain to work with
>
> Perry
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, N6WK <n6wk@...> wrote:
> >
> > Perry,
> > Check R9 and R10 on the rectifier Board. One is probably open.
> Most
> > likely R10
> > I'd like to be of more help, But I have a Terrible copy of the 520
> > Schematic.
> >
> >
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > PERRY wrote:
> >
> > > Hello
> > >
> > > I have a TS 520, No TX,-- I can inject a signal (8.615 mhz) at
> Point

> > > TIF. on the RF unit that comes from the IF filter board. and The
> > > Transmitter works OK
> > > Going back to the IF filter board.. AT Q2 the vfo mixer using an
> > > ocilloscope at the Gates of this transistor My VFO gives me about
> > > 2.4 v p-p.. The Car sig (3.395) I only have about .5 v P-P. My
> > > guess this is too low...
> > > I go to the Car input point on the Filter IF bd. I get over 2 v pp
> > > but the other side of the first transformer T1 it drops a lot..
> > > Q1 on the filter bd boosts it back up before C18 that goes to TP1
> > > then its .5 again..
> > > Not sure if the VFO and the Car signals need to be about the same
> > > level at the Gates of the VFO mixer Q2 for it to work or not ?
> > > This is the point I loose the TX (i think)
> > > I have the Level Diagram of the service manual PG 10, just not
> > > sure what the levels of the two are at this point.
> > >
> > > Confused in Gaines, Michigan
> > > Perry WA8THK
> > >
> > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

10254. Re: [TS-520_820_530_830] Re: 830 Neutralization

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 22:30:11 UTC
From: John Harp
Topic: 9948 Message: 10254

Yeah see that much I didn't know about you. I used to own one, but I moved so much for so many years now, until recently. Now I'm settled a little longer and can have a station more like I want.
I learned to improvise due to circumstances. That's why I passed on my meter trick to you. As long as you can tell the voltage drop for the neutralization that's what counts. I've done that way too. I just didn't wanna see you plug in the radio to the scope directly if you didn't know how. That's what I was concerned about.
You know it is, you let the smoke out and the thing doesn't want to work anymore.;)

Chris HEmbree <w7cth@...> wrote:
I got lucky about 20 years ago. I picked up a 4 channel 100mhz scope. Scope works like new even now.
Chris..

John Harp <ka3dpw@...> wrote: That's ok Chris I'd rather hear a dumb thing this way than something more serious. Glad to help what I can.

Go with Gordons way if you have the resources. Sometimes in life I have to makeshift since somethings aren't available to me.

Gordons probably a little more knowledgeable than me sometimes. We all work together to provide someone like you the best we can give. I at times didn't have a scope or a second radio or a sensitive VTVM. All I had was no money and a cheap CB/SWR meter with a FSM in it. Then I got the job done with that.

Right now I don't have my manual here to make sure my answer is correct. As I recall the neutralization process requires no adjustments of the 830. moving the SG Switch seems to set the 830 in another mode for the process.

Chris HEmbree <w7cth@...> wrote:
I have one more thing to ask. Does the radio need to be tuned up first load, plate and drive. on 28.500 befor you Neutraliz. as if you were going to talk to someone on that freq. I feel like I ask the dumbest things..
Chris..

Gordon <n6wk@...> wrote: EXCELLENT advice Dave....

Gordon
N6WK

--- In TS-520_820_530_830@...m, "David Rust" <dlrust@...>
wrote:
>
> Chris, as I remember TC1 has voltage on it, PLENTY of voltage, so
use an insulated screwdriver that won't short it out or send you
across the room.
> Dave W0DLR

>
> [Non-text portions of this message have been removed]
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10255. Anyoe suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 22:49:45 UTC
From: max_ve3tmt
Topic: 10255 Message: 10255

Greetings to all,

I'm currently using a dynamic mic that runs through a Behringer VX2000 voice processor and then through a PEQ-2200 5 band parametric EQ. I think it sounds okay but just can't seem to get it right and honestly I'm getting tired of knob twiddling! With the groups vast experience, please suggest alternatives, except for the MC50 which I had and really wasn't pleased with the sound. Perhaps a D104 or Shure 444? Please e-mail me off board with your experiences good and bad.

Max VE3TMT

10256. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes, noise reduction and signal to noise ratio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 22:48:05 UTC
From: John Harp
Topic: 10246 Message: 10256

My thought is run it for a while and think about it. See how you feel after experiencing your results.

Dave and Loraine <dave.crooks@...> wrote: Hi all,
I've just taken some measurements of audio voltages rather than RF, because it's easier and audio
is what we hear.
Standard conditions: Un-modified TS-820S, RF max, AF "2"=9 o'clock, Drive peaked, AGC off, freq. 14.3MHz, inverted V dipole, 18h00 local,
scope voltage taken across 50 ohm resistor across Phones socket.

Results
Dummy load: 0.05V
Sky noise: 0.4V
Weak signal: 0.4V

No-signal sky noise is 8x my receiver noise.
SSB weak signal is 8x my receiver noise. (+18 dB?)

If this seems unusual, maybe someone can measure their voltages under similar conditions.
If normal, it seems that sky noise and weak signals will swamp receiver noise.

I've always considered my receiver audio to be noisy.
I was all set to do the Inrad RF and IF mosfets swap and maybe the diodes swap.
I'm sure the radio would be quieter but sky noise will still be there.
Maybe I should leave well alone...
Any thoughts or measurements would be appreciated.

73 Dave F4EYK

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10257. Re: [TS-520_820_530_830] Anyoe suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 23:06:16 UTC
From: Chris HEmbree
Topic: 10255 Message: 10257

I just picked up a Heil Gold line GM5. I have not been on the air that much with it to give you a good report. I am not running any EQ stuff at all. If you start using a D104 make sure it has a op-amp built in it.

Chris.

max_ve3tmt <max_ve3tmt@...> wrote: Greetings to all,

I'm currently using a dynamic mic that runs through a Behringer VX2000
voice processor and then through a PEQ-2200 5 band parametric EQ. I
think it sounds okay but just can't seem to get it right and honestly
I'm getting tired of knob twiddling! With the groups vast experience,
please suggest alternatives, except for the MC50 which I had and
really wasn't pleased with the sound. Perhaps a D104 or Shure 444?
Please e-mail me off board with your experiences good and bad.

Max VE3TMT

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10258. Re: [TS-520_820_530_830] Re: TS 520 no tx

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 23:51:46 UTC
From: Bill Scurlock
Topic: 10249 Message: 10258

Gordon & Perry.

I've been following along in the search for the 100K resistors, and that is confusing. I even have conflicts within the same Operating Manual, and my Service Manual is different from the Operating Manual. They all refer to the same board number X43-1090-00, but I guess they moved R9 and R10 to an "off-board" location and renamed them R16 and R17. I'll look at my 520 when I have time and see which arrangement mine is.

My TS-520 is s/n 341679, and the Operating Manual that came with it is identified as "6432 Printed in Japan B50-1102-00 (G)". The main schematic on the back page shows R9 connected from STB to GND, R10 connected from STB to 210A, and these resistors are shown as being mounted on the board. However, on p.36 Fig. 23 it shows the Rectifier Unit board layout and shows a photo, and neither one show the resistors R9 or R10, or even an STB terminal. Obviously changes were being made and the documentation did not keep up.

The Service Manual "copy" that came with my rig is identified as "1974-3 Printed in Japan B51-0258-00 (G)", and it shows the two 100K resistors renamed R16 and R17, and drawn on the schematic immediately above the Meter Switch S1 at the bottom of the drawing. Also, these are listed as separate parts not mounted on a board.

There are probably more of these discrepancies hidden for us to find. When you find out where these resistors are actually located Perry, please let us know.

73, Bill, K5GCW

----- Original Message -----
From: N6WK
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 15, 2006 3:43 PM
Subject: Re: [TS-520_820_530_830] Re: TS 520 no tx

Hi Perry, Yes I have conflicting Schematics here. You need to look for
R16 and R17. Looks like they are somewhere between boards.
They come off the 210A circuit and are beetween it and the STB terminal
on the AF board.

Sorry for the confusion.

Gordon

PERRY wrote:

> Thanks Gordon
> The rectifier bd only has 8 resistors.
> I have all the voltages
> and are correct value
> My Schematic are on PDF files and are not too bad
> it I resize them.

> Just a pain to work with
>
> Perry
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, N6WK <n6wk@...> wrote:
> >
> > Perry,
> > Check R9 and R10 on the rectifier Board. One is probably open.
> Most
> > likely R10
> > I'd like to be of more help, But I have a Terrible copy of the 520
> > Schematic.
> >
> >
> > Gordon
> > N6WK
> >
> >
> >
> >
> >
> >
> > PERRY wrote:
> >
> > > Hello
> > >
> > > I have a TS 520, No TX,-- I can inject a signal (8.615 mhz) at
> Point
> > > TIF. on the RF unit that comes from the IF filter board. and The
> > > Transmitter works OK
> > > Going back to the IF filter board.. AT Q2 the vfo mixer using an
> > > ocilloscope at the Gates of this transistor My VFO gives me about
> > > 2.4 v p-p.. The Car sig (3.395) I only have about .5 v P-P. My
> > > guess this is too low...
> > > I go to the Car input point on the Filter IF bd. I get over 2 v pp
> > > but the other side of the first transformer T1 it drops a lot..
> > > Q1 on the filter bd boosts it back up before C18 that goes to TP1
> > > then its .5 again..
> > > Not sure if the VFO and the Car signals need to be about the same
> > > level at the Gates of the VFO mixer Q2 for it to work or not ?
> > > This is the point I loose the TX (i think)
> > > I have the Level Diagram of the service manual PG 10, just not
> > > sure what the levels of the two are at this point.
> > >
> > > Confused in Gaines, Michigan
> > > Perry WA8THK
> > >
> > >
> >

> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10259. Re: [TS-520_820_530_830] Anyoe suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-15 23:57:16 UTC
From: John Harp
Topic: 10255 Message: 10259

Hi Max,

I once asked an older op the same question. He said as long as its a high impedance mic like a crystal mic. It should work ok. He had a D-104 on his 520SE and I remember it sounded good. He sugested a shure 444 or an AstaticD-104 mic.
I went loking for one on ebay and got my transverter instead.

I was just down there before coming back here and saw one ready for the kenwood on bid down there. Check it out. There reasonable in price and they do sound goods on the Kernwoods. Thats my recomendation and sometime soon will get one.

max_ve3tmt <max_ve3tmt@...> wrote:
Greetings to all,

I'm currently using a dynamic mic that runs through a Behringer VX2000
voice processor and then through a PEQ-2200 5 band parametric EQ. I
think it sounds okay but just can't seem to get it right and honestly
I'm getting tired of knob twiddling! With the groups vast experience,
please suggest alternatives, except for the MC50 which I had and
really wasn't pleased with the sound. Perhaps a D104 or Shure 444?
Please e-mail me off board with your experiences good and bad.

Max VE3TMT

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10260. Re: [TS-520_820_530_830] Anyoe suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 00:15:34 UTC
From: Rich Jones
Topic: 10255 Message: 10260

I have a D-104 you can have for $30.oo shipped to you. It has no mike plug on it, does not have the slider hold down band but it works. It is probably a 5 on a scale of 10. Let me know if you want it. I came with a used TR4C I purchsed off of QRZ. Good luck, Rich KG7FS

John Harp <ka3dpw@...> wrote: Hi Max,

I once asked an older op the same question. He said as long as its a high impedance mic like a crystal mic. It should work ok. He had a D-104 on his 520SE and I remember it sounded good. He sugested a shure 444 or an AstaticD-104 mic.
I went loking for one on ebay and got my transverter instead.

I was just down there before coming back here and saw one ready for the kenwood on bid down there. Check it out. There reasonable in price and they do sound goods on the Kernwoods. Thats my recomendation and sometime soon will get one.

max_ve3tmt <max_ve3tmt@...> wrote:
Greetings to all,

I'm currently using a dynamic mic that runs through a Behringer VX2000
voice processor and then through a PEQ-2200 5 band parametric EQ. I
think it sounds okay but just can't seem to get it right and honestly
I'm getting tired of knob twiddling! With the groups vast experience,
please suggest alternatives, except for the MC50 which I had and
really wasn't pleased with the sound. Perhaps a D104 or Shure 444?
Please e-mail me off board with your experiences good and bad.

Max VE3TMT

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10261. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 01:07:33 UTC
From: Ellen R
Topic: 10247 Message: 10261

Hi Barry,

Hi Barry,

I don't see why you couldn't use an AC voltmeter to check for ripple. The caps that would concern me, would be the 100 uF caps. 55 uF - that's a lot of drop. More than likely, they're drying out, and may give you a fair amount of ripple. While you're at it, check out the finals. If I remember right, like the TS-900 (and my Swan 270B for that matter), they're sweep tubes. Sweep tubes can last a long time if they were taken good care of. But all too often, sweep tubes were not. They don't take abuse too well. They may be shot.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Well I finally have the TS-510 in my shop and have the covers off
> doing some cleanup and painting. Over all the rig is in not bad
> shape with some dirt and rust on the covers and chassis.
>
> One of the diode rectifiers in the PS has been replaced. The
> originals are SE-05's and the replacement is a 1N4004. When I look
> both of these up on NTEs cross reference I get NTE116 as the cross
> reference. Can I assume that the 1N4004 is a substitute for the SE-
> 05? All diodes check good with the Ohmeter but am wondering if the
> SE-05s should be replaced while the PS is dismantled.
>
> On checking the PS electrolytic capacitors with a Heathkit C-3 which
> is calibrated using new electrolytics the PS 47uf caps are reading
> about 35uf and the 100uf caps are reading about 55uf. No leaks or
> shorts. Are these still considered serviceable or would I need to
> use a scope to read the amount of ripple to judge if they need
> replacing. I don't have a scope so could I use an AC voltmeter
> across the cap to measure the ripple.
>
> Just the first of many questions but hopefully with adequate photos
> and records I may help the next lucky person to acquire one of these
> fine rigs.
>
> TIA
> Barry

> VA7GEM
>

10262. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 02:11:20 UTC
From: David Rust
Topic: 10247 Message: 10262

The caps that would concern me, would be the 100 uF caps.
55 uF -

I just replaced these two caps on my TS830s. It had low power output, one of the fellows on this list to me they needed replacing. They did, he was correct. Now its up to full power out.
W0DLR

[Non-text portions of this message have been removed]

10263. RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 00:44:18 UTC
From: Ron Hauser
Topic: 9948 Message: 10263

Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I had "almost" figured out that is where I want to look.

First I checked the TX/RX relay contacts, and gave them a cleaning with a piece of paper and some Deoxit. It was looking very bright and shiny when I opened it up, and I did not get a change in behavior.

Next I checked voltages around Q11, Q12. The supply to R73 and Q11 is 8.98v (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as nominal) 4.87v (4.8v specified). That seems pretty close. The two leads of Q11 were 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be a problem.

I also checked the resistors around VR2, VR3. I pulled R72, R73, R74 off the board but all checked out within tolerance. Interesting note, the schematic has an error, it has R92 as a typo for R72, that was a nice bit of confusion.

I'm thinking that I'm onto something with the values around Q11 but now I'm back to poring over the schematic trying to decide where to go next.

BTW, When I go through the calibrate procedure for the S meter I never get more than S4 as the biggest peak on the calibrator signal.

Thanks for the help, and any more ideas will be welcome!

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick KC0HH
Sent: Thursday, October 12, 2006 11:54 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Your S meter should read about S9 with the calibrate signal peaked. Best to check this on a dummy load or a dead band so you don't get any AGC action. Mine is a needle width below S9 when peaked and it is calibrated for 50uV for S9 signal.

73' Rick KC0HH
Lamar, Colorado

David Rust <dlrust@...> wrote:
Im watching the S meter discussion for my 830s, it reads almost full scale on a strong signal. I haven't attempted to work on that yet.
W0DLR

Do you Yahoo!?

Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

10264. RE: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 03:00:09 UTC
From: Ron Hauser
Topic: 10247 Message: 10264

Hi David. I just happened to see that you are in my same call area, actually in the same state. With all the talk about getting some Kenwood QSO nets or roundtables together, I'd expect that you and I could probably make contact easy on low bands this winter. Could be a good chance to try some Kenwood 80m or 160m QSOs!

--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of David Rust
Sent: Sunday, October 15, 2006 9:11 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-510 Restoration

The caps that would concern me, would be the 100 uF caps.
55 uF -

I just replaced these two caps on my TS830s. It had low power output, one of the fellows on this list to me they needed replacing. They did, he was correct. Now its up to full power out.
W0DLR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

10265. 830 IF Board mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 03:42:34 UTC
From: jsloss
Topic: 10265 Message: 10265

I notice the the IF board from a 830 with 3 million+ S/N has several disc ceramics and two resistors soldered to the trace side. A IF board from a 830 with S/N in the 1M range does not have these added parts.

Does anyone have any info, from Kenwood or other sources, about these additional added components. I ask as my 830 is the lower S/N and perhaps these added components are ones I should consider adding.

Thank you,

Joe k7mks

[Non-text portions of this message have been removed]

10266. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 04:37:09 UTC
From: digs4ruff
Topic: 10247 Message: 10266

David
Thanks. Where did you source the caps from.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> The caps that would concern me, would be the 100 uF caps.
> 55 uF -
>
> I just replaced these two caps on my TS830s. It had low power
output, one of the fellows on this list to me they needed replacing.
They did, he was correct. Now its up to full power out.
> W0DLR
>
> [Non-text portions of this message have been removed]
>

10267. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 04:41:37 UTC
From: digs4ruff
Topic: 10247 Message: 10267

David
Thanks. Where did you source the caps from.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> The caps that would concern me, would be the 100 uF caps.
> 55 uF -
>
> I just replaced these two caps on my TS830s. It had low power
output, one of the fellows on this list to me they needed replacing.
They did, he was correct. Now its up to full power out.
> W0DLR
>
> [Non-text portions of this message have been removed]
>

10268. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 04:36:11 UTC
From: digs4ruff
Topic: 10247 Message: 10268

Ellen
Thanks. The finals are S2001 tubes and may well be the originals. Under power the heaters glow and there is no arcing but have not tried TX, was simply checking for dead tubes and PS voltages. Voltages with a DVM are all on except as I recall the HV is about 900V.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Barry,
>
> Hi Barry,
>
> I don't see why you couldn't use an AC voltmeter to check for
> ripple. The caps that would concern me, would be the 100 uF caps.
> 55 uF - that's a lot of drop. More than likely, they're drying out,
> and may give you a fair amount of ripple. While you're at it, check
> out the finals. If I remember right, like the TS-900 (and my Swan
> 270B for that matter), they're sweep tubes. Sweep tubes can last a
> long time if they were taken good care of. But all too often, sweep
> tubes were not. They don't take abuse too well. They may be shot.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > Well I finally have the TS-510 in my shop and have the covers off
> > doing some cleanup and painting. Over all the rig is in not bad
> > shape with some dirt and rust on the covers and chassis.
> >
> > One of the diode rectifiers in the PS has been replaced. The
> > originals are SE-05's and the replacement is a 1N4004. When I look
> > both of these up on NTEs cross reference I get NTE116 as the

cross
> > reference. Can I assume that the 1N4004 is a substitute for the
SE-
> > 05? All diodes check good with the Ohmeter but am wondering if
the
> > SE-05s should be replaced while the PS is dismantled.
> >
> > On checking the PS electrolytic capacitors with a Heathkit C-3
> which
> > is calibrated using new electrolytics the PS 47uf caps are
reading
> > about 35uf and the 100uf caps are reading about 55uf. No leaks
or
> > shorts. Are these still considered serviceable or would I need
to
> > use a scope to read the amount of ripple to judge if they need
> > replacing. I don't have a scope so could I use an AC voltmeter
> > across the cap to measure the ripple.
> >
> > Just the first of many questions but hopefully with adequate
photos
> > and records I may help the next lucky person to acquire one of
> these
> > fine rigs.
> >
> > TIA
> > Barry
> > VA7GEM
> >
>

10269. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 04:45:56 UTC
From: digs4ruff
Topic: 10247 Message: 10269

Ellen
TVM. I did power up the rig, no TX attempt, and all tube heaters glowed including the finals. They are S2001's and may be the originals. There was no arcing yet but will reserve judgement until the TX switch is flipped. All voltages from the PS are good except the HV which is about 900V but will have to look into that a bit further.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Barry,
>
> Hi Barry,
>
> I don't see why you couldn't use an AC voltmeter to check for
> ripple. The caps that would concern me, would be the 100 uF caps.
> 55 uF - that's a lot of drop. More than likely, they're drying out,
> and may give you a fair amount of ripple. While you're at it, check
> out the finals. If I remember right, like the TS-900 (and my Swan
> 270B for that matter), they're sweep tubes. Sweep tubes can last a
> long time if they were taken good care of. But all too often, sweep
> tubes were not. They don't take abuse too well. They may be shot.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > Well I finally have the TS-510 in my shop and have the covers off
> > doing some cleanup and painting. Over all the rig is in not bad
> > shape with some dirt and rust on the covers and chassis.
> >
> > One of the diode rectifiers in the PS has been replaced. The
> > originals are SE-05's and the replacement is a 1N4004. When I look

> > both of these up on NTEs cross reference I get NTE116 as the
cross
> > reference. Can I assume that the 1N4004 is a substitute for the
SE-
> > 05? All diodes check good with the Ohmeter but am wondering if
the
> > SE-05s should be replaced while the PS is dismantled.
> >
> > On checking the PS electrolytic capacitors with a Heathkit C-3
> which
> > is calibrated using new electrolytics the PS 47uf caps are
reading
> > about 35uf and the 100uf caps are reading about 55uf. No leaks
or
> > shorts. Are these still considered serviceable or would I need
to
> > use a scope to read the amount of ripple to judge if they need
> > replacing. I don't have a scope so could I use an AC voltmeter
> > across the cap to measure the ripple.
> >
> > Just the first of many questions but hopefully with adequate
photos
> > and records I may help the next lucky person to acquire one of
> these
> > fine rigs.
> >
> > TIA
> > Barry
> > VA7GEM
> >
>

10270. Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes, noise reduction and signal to noise ratio

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 07:24:47 UTC
From: n9wb
Topic: 10246 Message: 10270

I'd do the diode swap and forget the mosfet swap.

To really tell anything about the s/n ratio, you need a signal generator with a calibrated attenuator. But I am not sure that I would worry about it.

The TS-820 has a lot of shot noise that can be heard when connected to a dummy load. You will notice that some of this noise reduces if you detune the drive control thus eliminating the noise generated by the first RF stage. (this is just a test, you cannot transmit this way) It is normal that the S/n ratio is very bad with the RF attenuator on. I find reducing the RF gain control instead of using the attenuator helps somewhat.

A lot of this is phase noise from the PLL. This is typical of PLL rigs, particularly early ones. A lot of it is that the rig is single conversion and the RF and IF FETs operate at a very high gain. As I remember from years ago, part of the mod was to change some gate resistors on the IF FET's and I found that this reduced the noise by reducing the sensitivity, in my opinion, a bad trade off. There also were some back to back diodes added, and these increased intermodulation between strong signals on receive so I removed them.

I did this mod to a TS-820 I had many years ago and I did not believe that I could tell any major improvement in the shot noise that you are experiencing.

The mosfet swap uses FETs the equivalent to NTE222, or 3N204. The 3N201 is not as good of a FET as the 3N204.

Perhaps there are better FETs today than the NTE222. I have seen some that were flat discs the diameter of the 3SK41 that could be mounted flush to the board and the leads bent down and through the holes. These may have just been an early surface mount type, however.

I have little faith that we are going to find any major magic from a FET change.

The TS-820 uses a 3SK35 in the RF front end and a 3SK41 in the IF stages. With some rigs that use the 3SK41, an increase in sensitivity has been noted by changing the front end 3SK41 to a 3SK35 or an NTE 222. However, the people that made this change reported that they did NOT note a similar improvement by changing the mixers or IF FETs from 3SK41 to 3SK35 or NTE 222. Generally rigs that use a 3SK41 in the front end do not have quite as much sensitivity as those using the 3SK35.

If we could somehow drive the FET's with more signal level and reduce the system gain, we might be able to improve the S/N ratio, but this would be difficult and would reduce the dynamic linear range thus worsening the intercept point figures.

I understand that even though the TS-830 is PLL that it is quieter. I also understand that the TS-520 is quieter because it is not PLL.

I am doing this from memory and have some information on this mod coming.

It would be interesting to know if there is a FET superior to the 3N204 available today.

Again, I would recommend doing the diode mod. Ten Tec went to Schottkys in their later rigs before DDS.

Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 15, 2006 5:48 PM
Subject: Re: [TS-520_820_530_830] Re: 1n5711 Schottky Diodes, noise reduction and signal to noise ratio

My thought is run it for a while and think about it. See how you feel after experiencing your results.

Dave and Loraine <dave.crooks@...> wrote: Hi all,
I've just taken some measurements of audio voltages rather than RF, because it's easier and audio
is what we hear.
Standard conditions: Un-modified TS-820S, RF max, AF "2"=9 o'clock, Drive peaked, AGC off, freq. 14.3MHz, inverted V dipole, 18h00 local,
scope voltage taken across 50 ohm resistor across Phones socket.

Results
Dummy load: 0.05V
Sky noise: 0.4V
Weak signal: 0.4V

No-signal sky noise is 8x my receiver noise.
SSB weak signal is 8x my receiver noise. (+18 dB?)

If this seems unusual, maybe someone can measure their voltages under similar conditions.
If normal, it seems that sky noise and weak signals will swamp receiver noise.

I've always considered my receiver audio to be noisy.
I was all set to do the Inrad RF and IF mosfets swap and maybe the diodes swap.
I'm sure the radio would be quieter but sky noise will still be there.
Maybe I should leave well alone...
Any thoughts or measurements would be appreciated.

73 Dave F4EYK

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/476 - Release Date: 10/14/06

[Non-text portions of this message have been removed]

10271. RE: [TS-520_820_530_830] 820 Keyed the mic and meter went full scale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 07:42:00 UTC
From: Richard Harris
Topic: 10239 Message: 10271

Max,

The display on the 530 (and I assume the 830) is multiplexed a digit-at-a-time at a rate that is high enough so that the display appears continuously illuminated to the eye. I don't think that you could easily modify the circuit to use an extra digit.

You could arrange to switch in an extra divide-by-ten counter so that the digits moved one place to the left and the right-hand digit then reads tens of hertz. However, you would need to ensure that the various crystal oscillators were set precisely to their correct frequencies because there is little point in having a 10Hz readout if the oscillators are only set to within, say, 20Hz.... Above 7MHz you will lose the left hand digit and the decimal points will be the wrong place but you will have a 10Hz read-out.

Richard G3OTK

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of n9wb
Sent: 15 October 2006 11:04
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] 820 Keyed the mic and meter went full scale

--- In TS-520_820_530_830@yahoogroups.com, Richard Harris
<rjharris@...> wrote:
>
> The TS-530 (and probably the 830) uses an LSI counter IC (Toshiba
TC5070P) for the frequency counter and this only caters for six digits.
>
> A data sheet for this IC can be found at www.alldatasheet.co.kr
>
> 73s
>
> Richard G3OTK

I researched the driver IC and indeed it does only have outputs for 6
digits. Now if the display in the 830 has 7, perhaps it can be lit
another way?? Any ideas?

Max

[Non-text portions of this message have been removed]

10272. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 08:28:48 UTC
From: Ruben Echevarria
Topic: 10247 Message: 10272

Wondering if the caps on mine are also bad...hmmmm
Where did you get your caps? ..... Thanks KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: digs4ruff <digs4ruff@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 16, 2006 12:41:37 AM
Subject: [TS-520_820_530_830] Re: TS-510 Restoration

David
Thanks. Where did you source the caps from.
regards
Barry

--- In TS-520_820_530_ 830@yahoogroups. com, "David Rust" <dlrust@...>
wrote:
>
> The caps that would concern me, would be the 100 uF caps.
> 55 uF -
>
> I just replaced these two caps on my TS830s. It had low power
output, one of the fellows on this list to me they needed replacing.
They did, he was correct. Now its up to full power out.
> W0DLR
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10273. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 10:09:11 UTC
From: Dave and Loraine
Topic: 10247 Message: 10273

Hi Barry,
My new old TS-820S came to me with the original S2001's and they're still pushing 115 watts on
80m.
I hope yours are still OK.
73 Dave F4EYK

10274. Re: Anyone suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 11:13:34 UTC
From: max_ve3tmt
Topic: 10255 Message: 10274

Thanks for all the comments and suggestions guys. I guess I need to play around a bit more with what I have.

Max VE3TMT

10275. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 12:07:39 UTC
From: David Rust
Topic: 10247 Message: 10275

--Ron
KC0TLN

Ron, I am sorta' retired and have a flexible schedule. Most anytime on 75 meter phone will work for me. Some evening around 5:30 pm is a good time for the band to start improving. Let me know.
73 Dave near Branson, Mo.

[Non-text portions of this message have been removed]

10276. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 12:05:29 UTC
From: David Rust
Topic: 10247 Message: 10276

The caps came from DigiKey. Part No. P7448-ND. If they don't have them Part No P7449-ND is the same thing. I got this informtion from a person on this list, however, I have lost his original email. After the caps arrived I deleted the original email. These replacements are 100uf 500 volt, however, they are physically smaller than the ones that are in there now. You will have to devise a way to take up the room for the chassis clamp to hold them. I used a piece of pipe insulation to put around them.
Dave

[Non-text portions of this message have been removed]

10277. Re: [TS-520_820_530_830] Re: Anyone suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 12:37:25 UTC
From: Rich Jones
Topic: 10255 Message: 10277

I thought I sent a response last night but, if you would like, I have a D-104 that you can have for $30.00 shipped to you . On a scale of 1-10, it is a five. It has no mike plug on it. It has a coiled cord, I would reccomend changing it to a flat one. I got it from a QRZ purchase of a TR4 awhile ago. The guy was a smoker but you can clean it up and repaint the base to make it look good. If you do not want it, I would be glad to offer it to anyone else. It is surplus to me. I use a D-104 and a 444 on my 520 and 530. I can send photo's if you would like. Good luck, Rich KG7FS

max_ve3tmt <max_ve3tmt@...> wrote: Thanks for all the comments and suggestions guys. I guess I need to
play around a bit more with what I have.

Max VE3TMT

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10278. TS-570S(G) vs TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 13:16:00 UTC
From: Ken Gunton
Topic: 10247 Message: 10278

This is NOT a scientific study, and is not published
as such --

I recently purchased a new TS570S(G), and had occasion
this weekend to put it up against my 830S.

I was operating in the PA QSO Party, and initially
used the TS570 because it integrates so well with
contest logging programs. I do like the computer
control.

About an hour into the contest, I noticed that the
570 seemed to be affected a lot by strong signals
close to the passband. I was on 40 meter phone, and
there were PLENTY of strong signals. In fact, I
had trouble making contacts within 5-6 KHz of strong
signals, because they would pull down the AGC. Using
the attenuator helped, but also degraded the signal
I was trying to copy. So did reducing the RF gain.

Sooooo..... I turned on the 830S, and by playing
with the various controls could pull in signals
which were unreadable by the 570. I did this a
number of times, and every single time was able
to copy with the 830 a signal I could NOT copy
reliably with the 570.

The 570 has only factory stock filters in it, and
the 830 has factory plus a narrow CW filter installed.

Ya gotta love them 830s!!! I had several people during
the contest remark that my 830's audio sounded outstanding.
I use a Heil Proset 5 headset. No one happened to mention
anything when I was using the 570 with the same Heil set.

Now, umm, how do I get my 830 to report frequency, etc.
to my logging program? hi hi

Just my experience. YMMV.

Remember, Microwave Update is THIS COMING WEEKEND here
in Dayton.

73s,
Ken W8ASA
Counting down to Hamvention 2007

10279. Re: Anyone suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 13:25:46 UTC
From: max_ve3tmt
Topic: 10255 Message: 10279

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones
<michjonezee@...> wrote:
>
> I thought I sent a response last night but, if you would like, I
have a D-104 that you can have for $30.00 shipped to you .

Hi Rich,

Yes I saw the offer, thanks very much. I am going to play around with
what I have for a bit, I think I I just need to play with the settings
a bit. I have it set pretty good now, I wish I was home during the day
to have a QSO with someone to get a report. My job keeps getting in
the way!

Max

10280. Re: [TS-520_820_530_830] Anyoe suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 13:44:53 UTC
From: Max Harelik
Topic: 10255 Message: 10280

Max (and no, I'm not talking to myself), I use a D-104 and get good audio reports. It's what I started with when I got my 530s last spring, and have stuck with it. You know what they say: "If it ain't broke, don't fix it!"

And I know what you mean about knob-twiddling. I bought a Timewave ANC-4 and an outboard DSP unit (a competitor to Timewave, whose name I don't remember) to try to help the S/N. They're so much trouble, I generally just leave them off.

73,
Max, K5OVW

max_ve3tmt wrote:

> Greetings to all,
>
> I'm currently using a dynamic mic that runs through a Behringer VX2000
> voice processor and then through a PEQ-2200 5 band parametric EQ. I
> think it sounds okay but just can't seem to get it right and honestly
> I'm getting tired of knob twiddling! With the groups vast experience,
> please suggest alternatives, except for the MC50 which I had and
> really wasn't pleased with the sound. Perhaps a D104 or Shure 444?
> Please e-mail me off board with your experiences good and bad.
>
> Max VE3TMT
>

10281. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 14:40:20 UTC
From: Ellen R
Topic: 10247 Message: 10281

Barry, if they're S2001 tubes, you should be OK. Those are no different than the OE tubes put in the 520, 820, 530, and 830 series. In other words, they're 6146B type tubes. Give 'em the same check out and treatment you would with the tubes in you 830S.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Ellen
> Thanks. The finals are S2001 tubes and may well be the originals.
> Under power the heaters glow and there is no arcing but have not
> tried TX, was simply checking for dead tubes and PS voltages.
> Voltages with a DVM are all on except as I recall the HV is about
> 900V.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Hi Barry,
> >
> > Hi Barry,
> >
> > I don't see why you couldn't use an AC voltmeter to check for
> > ripple. The caps that would concern me, would be the 100 uF
> caps.
> > 55 uF - that's a lot of drop. More than likely, they're drying
> out,
> > and may give you a fair amount of ripple. While you're at it,
> check
> > out the finals. If I remember right, like the TS-900 (and my
Swan
> > 270B for that matter), they're sweep tubes. Sweep tubes can last
> a
> > long time if they were taken good care of. But all too often,
> sweep
> > tubes were not. They don't take abuse too well. They may be shot.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"

> > <digs4ruff@> wrote:
> > >
> > > Well I finally have the TS-510 in my shop and have the covers
> off
> > > doing some cleanup and painting. Over all the rig is in not bad
> > > shape with some dirt and rust on the covers and chassis.
> > >
> > > One of the diode rectifiers in the PS has been replaced. The
> > > originals are SE-05's and the replacement is a 1N4004. When I
> look
> > > both of these up on NTEs cross reference I get NTE116 as the
> cross
> > > reference. Can I assume that the 1N4004 is a substitute for the
> SE-
> > > 05? All diodes check good with the Ohmeter but am wondering if
> the
> > > SE-05s should be replaced while the PS is dismantled.
> > >
> > > On checking the PS electrolytic capacitors with a Heathkit C-3
> > which
> > > is calibrated using new electrolytics the PS 47uf caps are
> reading
> > > about 35uf and the 100uf caps are reading about 55uf. No leaks
> or
> > > shorts. Are these still considered serviceable or would I need
> to
> > > use a scope to read the amount of ripple to judge if they need
> > > replacing. I don't have a scope so could I use an AC voltmeter
> > > across the cap to measure the ripple.
> > >
> > > Just the first of many questions but hopefully with adequate
> photos
> > > and records I may help the next lucky person to acquire one of
> > these
> > > fine rigs.
> > >
> > > TIA
> > > Barry
> > > VA7GEM
> > >
> >
>

10282. Re: [TS-520_820_530_830] 3950+/- at 5:30 pm this evening

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 14:40:24 UTC
From: David Rust
Topic: 10282 Message: 10282

I'll try to remember to listen tonite around 5:30 on or about 3950 +/- qrm, nets, etc. and see if we can get a few folks together. I have no idea what frequencies might be available then. Seems like lots of nets start up around 5 to 6pm. Anyone interested give a listen.
73 from Dave W0DLR

[Non-text portions of this message have been removed]

10283. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 17:01:04 UTC
From: Clif
Topic: 10247 Message: 10283

The S2001 is the Japanese equivalent to the 6146B. They were OE in the
520/820 series. The OE tubes in the 530/830 were 6146B's.

Actually the S2001 is a better tube than the 6146B IMHO. I have never
seen a pair if 6146B's in a 520/820 make as much power as the OE S2001's.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Barry, if they're S2001 tubes, you should be OK. Those are no
> different than the OE tubes put in the 520, 820, 530, and 830
> series. In other words, they're 6146B type tubes. Give 'em the same
> check out and treatment you would with the tubes in you 830S.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > Ellen
> > Thanks. The finals are S2001 tubes and may well be the originals.
> > Under power the heaters glow and there is no arcing but have not
> > tried TX, was simply checking for dead tubes and PS voltages.
> > Voltages with a DVM are all on except as I recall the HV is about
> > 900V.
> > regards
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Barry,
> > >
> > > Hi Barry,
> > >
> > > I don't see why you couldn't use an AC voltmeter to check for
> > > ripple. The caps that would concern me, would be the 100 uF
> > caps.
> > > 55 uF - that's a lot of drop. More than likely, they're drying
> > out,
> > > and may give you a fair amount of ripple. While you're at it,
> > check
> > > out the finals. If I remember right, like the TS-900 (and my
> Swan

> > > 270B for that matter), they're sweep tubes. Sweep tubes can last
> > a
> > > long time if they were taken good care of. But all too often,
> > sweep
> > > tubes were not. They don't take abuse too well. They may be shot.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > <digs4ruff@> wrote:
> > > >
> > > > Well I finally have the TS-510 in my shop and have the covers
> > off
> > > > doing some cleanup and painting. Over all the rig is in not bad
> > > > shape with some dirt and rust on the covers and chassis.
> > > >
> > > > One of the diode rectifiers in the PS has been replaced. The
> > > > originals are SE-05's and the replacement is a 1N4004. When I
> > look
> > > > both of these up on NTEs cross reference I get NTE116 as the
> > cross
> > > > reference. Can I assume that the 1N4004 is a substitute for the
> > SE-
> > > > 05? All diodes check good with the Ohmeter but am wondering if
> > the
> > > > SE-05s should be replaced while the PS is dismantled.
> > > >
> > > > On checking the PS electrolytic capacitors with a Heathkit C-3
> > > which
> > > > is calibrated using new electrolytics the PS 47uf caps are
> > reading
> > > > about 35uf and the 100uf caps are reading about 55uf. No leaks
> > or
> > > > shorts. Are these still considered serviceable or would I need
> > to
> > > > use a scope to read the amount of ripple to judge if they need
> > > > replacing. I don't have a scope so could I use an AC voltmeter
> > > > across the cap to measure the ripple.
> > > >
> > > > Just the first of many questions but hopefully with adequate
> > photos
> > > > and records I may help the next lucky person to acquire one of
> > > these
> > > > fine rigs.
> > > >
> > > > TIA
> > > > Barry
> > > > VA7GEM
> > > >

> > >
> >
>

10284. Re: [TS-520_820_530_830] Re: New rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 14:15:14 UTC
From: Max Harelik
Topic: 10145 Message: 10284

Yeah, and the argument is always made: "But you can operate CW anywhere!" True, but among all the 800# gorillas, anywheres are hard to find.

73,
Max, K5OVW

ne0x@... wrote:

> not exactly expanded for all of us, if your a cw op its shrinking, then
> the show will fall, who needs cw??????? lets do away with it, ron ne0x
> --
> SUSE LINUX VERY NICE.....
>
>

[Non-text portions of this message have been removed]

10285. Re: 3950+/- at 5:30 pm this evening

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 17:47:06 UTC
From: Ellen R
Topic: 10282 Message: 10285

I'd love to join in late this afternoon Dave, but I help out an an animal shelter until 8 PM.

Have fun,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> I'll try to remember to listen tonite around 5:30 on or about 3950 +/- qrm, nets, etc. and see if we can get a few folks together. I have no idea what frequencies might be available then. Seems like lots of nets start up around 5 to 6pm. Anyone interested give a listen.
> 73 from Dave W0DLR
>
> [Non-text portions of this message have been removed]
>

10286. Re: [TS-520_820_530_830] Re: Anyone suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 15:15:36 UTC
From: Rick KC0HH
Topic: 10255 Message: 10286

Hi Max,

You do not need to swap the four pin mic jack out on the 830S to get B+ for an electret. Just pull the mic audio line off of pin 1 of the mic jack inside the radio and feed it back thru pin 1 with a 1-2uF tantulum cap. Connect 9vdc thru a 4.7k resistor directly to pin 1 of the mic jack... The capacitor isolates the audio circuit from the 9v. Depending on which electret you use, you can keep the B+ superimposed on the audio line in the mic with the 2 wire verson of the electret. If you use the 3 wire version electret with separate audio, B+, and ground then use another tantalum in the mic to isolate the B+ and audio. Works slick...unless you plug a dynamic mic into this mic jack without a capacitor in the audio line to isolate the element...

73' Rick KC0HH

max_ve3tmt <max_ve3tmt@...> wrote: Thanks for all the comments and suggestions guys. I guess I need to
play around a bit more with what I have.

Max VE3TMT

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10287. Re: [TS-520_820_530_830] Re: New rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 18:26:23 UTC
From: Rich Jones
Topic: 10145 Message: 10287

At about 1400 UTC on Sunday the 15th I was very surprised to hear all the CW activity between 7125 and 7150. CW is not dead, in my opinion it is a sleeping giant. Ask anyone who runs DXpeditions. Funny, a lot of us want the distant and hard to get QSL but you will notice almost all DXpeditions have a CW opt. I can get a QSL via CW with my meger 100 watts and wire antenna if I am patient. Try that on SSB with all the bleed over from the mega stations. Just my opinion. Rich KG7FS

Max Harelik <mharelik@...> wrote: Yeah, and the argument is always made: "But you can operate CW
anywhere!" True, but among all the 800# gorillas, anywheres are hard to
find.

73,
Max, K5OVW

ne0x@... wrote:

> not exactly expanded for all of us, if your a cw op its shrinking, then
> the show will fall, who needs cw??????? lets do away with it, ron ne0x
> --
> SUSE LINUX VERY NICE.....
>
>

[Non-text portions of this message have been removed]

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10288. Re: Anyone suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 19:10:12 UTC
From: max_ve3tmt
Topic: 10255 Message: 10288

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Max,
>
> You do not need to swap the four pin mic jack out on the 830S to
get B+ for an electret. Just pull the mic audio line off of pin 1 of
the mic jack inside the radio and feed it back thru pin 1 with a 1-2uF
tantulum cap. Connect 9vdc thru a 4.7k resistor directly to pin 1 of
the mic jack... The capacitor isolates the audio circuit from the 9v.
Depending on which electret you use, you can keep the B+ superimposed
on the audio line in the mic with the 2 wire verson of the electret.
If you use the 3 wire version electret with separate audio, B+, and
ground then use another tantalum in the mic to isolate the B+ and
audio. Works slick...unless you plug a dynamic mic into this mic jack
without a capacitor in the audio line to isolate the element...
>
> 73' Rick KC0HH

Thanks for the tip Rick, never thought of putting the B+ inside! I've
got the EQ set up pretty good now, would like to have a QSO with
someone to get some comments.

Max

10289. Adapting a Yaesu YO-100 for use with a TS830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 19:56:42 UTC
From: max_ve3tmt
Topic: 10289 Message: 10289

I have acquired a Yaesu YO-100 scope and am curious if it could be adapted to use with the 830 for monitoring receive signals in the IF stage. The YO-100 works on a 3.180 IF and I believe both IF taps on the 830 are from the 8.83 IF. Am I getting in over my head?

Max VE3TMT

10291. Re: Anyone suggest a good mic for the 830?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-16 22:02:45 UTC
From: nasa820
Topic: 10255 Message: 10291

I have and use both the D-104 and the MC-50. I think the MC-50 is a
better mic for the 830.

Bob
W7DDD

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> Thanks for all the comments and suggestions guys. I guess I need to
> play around a bit more with what I have.
>
> Max VE3TMT
>

10292. Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 00:47:24 UTC
From: Valued Customer
Topic: 10292 Message: 10292

Has anyone tried this mod?

I'm thinking about doing this, but wanted to get an opinion or two
before venturing in. Oh, and the 10k resistor I have is a 1/4W.
Would that do?

Meanwhile, the mod text says:

1. Increased sensitivity.

On the RF board, Q5 is the RF RX amp. Notice that G2 is tied to the
AGC line.
Bend G2 up from the socket, solder a 10k resistor to it and connect
the other end of the resistor to the 9v line on the front of the
board. This will allow the FET to run wide open, and you will have a
better S/N ratio. You will gain about two S units in signal and you
may want to adjust your S meter to compensate. I did this mod almost a
year ago and have had no problems even with signals that were 40db over!

SOURCE: http://www.radiomods.co.nz/kenwood/kenwoodts520.html

Thanks!

73. Frank K2NCC

10293. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 03:45:35 UTC
From: digs4ruff
Topic: 10247 Message: 10293

Ellen
TVM but now I am getting confused. This happens a lot as age creeps up.

The TS-510 has S2001 tubes which as I find on Google search are equivalent to 6146/6146A.

The TS-820S has S2001A tubes which I understand are equivalent to 6146B/6146W.

Are these all inter changeable or not. Getting really confused.
Which way is North.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Barry, if they're S2001 tubes, you should be OK. Those are no
> different than the OE tubes put in the 520, 820, 530, and 830
> series. In other words, they're 6146B type tubes. Give 'em the same
> check out and treatment you would with the tubes in you 830S.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > Ellen
> > Thanks. The finals are S2001 tubes and may well be the originals.
> > Under power the heaters glow and there is no arcing but have not
> > tried TX, was simply checking for dead tubes and PS voltages.
> > Voltages with a DVM are all on except as I recall the HV is about
> > 900V.
> > regards
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Hi Barry,
> > >
> > > Hi Barry,

> > >
> > > I don't see why you couldn't use an AC voltmeter to check for
> > > ripple. The caps that would concern me, would be the 100 uF
> > caps.
> > > 55 uF - that's a lot of drop. More than likely, they're
drying
> > out,
> > > and may give you a fair amount of ripple. While you're at it,
> > check
> > > out the finals. If I remember right, like the TS-900 (and my
> Swan
> > > 270B for that matter), they're sweep tubes. Sweep tubes can
last
> > a
> > > long time if they were taken good care of. But all too often,
> > sweep
> > > tubes were not. They don't take abuse too well. They may be
shot.
> > >
> > > 73,
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > <digs4ruff@> wrote:
> > > >
> > > > Well I finally have the TS-510 in my shop and have the
covers
> > off
> > > > doing some cleanup and painting. Over all the rig is in not
bad
> > > > shape with some dirt and rust on the covers and chassis.
> > > >
> > > > One of the diode rectifiers in the PS has been replaced. The
> > > > originals are SE-05's and the replacement is a 1N4004. When
I
> > look
> > > > both of these up on NTEs cross reference I get NTE116 as the
> > cross
> > > > reference. Can I assume that the 1N4004 is a substitute for
the
> > SE-
> > > > 05? All diodes check good with the Ohmeter but am wondering
if
> > the
> > > > SE-05s should be replaced while the PS is dismantled.
> > > >
> > > > On checking the PS electrolytic capacitors with a Heathkit C-
3
> > > which
> > > > is calibrated using new electrolytics the PS 47uf caps are

> > reading
> > > > about 35uf and the 100uf caps are reading about 55uf. No
leaks
> > or
> > > > shorts. Are these still considered serviceable or would I
need
> > to
> > > > use a scope to read the amount of ripple to judge if they
need
> > > > replacing. I don't have a scope so could I use an AC
voltmeter
> > > > across the cap to measure the ripple.
> > > >
> > > > Just the first of many questions but hopefully with adequate
> > photos
> > > > and records I may help the next lucky person to acquire one
of
> > > these
> > > > fine rigs.
> > > >
> > > > TIA
> > > > Barry
> > > > VA7GEM
> > > >
> > >
> >
>

10294. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 03:48:43 UTC
From: digs4ruff
Topic: 10247 Message: 10294

Clif
The confusion continues. My TS-820S manual and my original tubes are S2001A not S2001 which are in the TS-510.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> The S2001 is the Japanese equivalent to the 6146B. They were OE in the
> 520/820 series. The OE tubes in the 530/830 were 6146B's.
>
> Actually the S2001 is a better tube than the 6146B IMHO. I have never
> seen a pair if 6146B's in a 520/820 make as much power as the OE S2001's.
>
> Clif
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Barry, if they're S2001 tubes, you should be OK. Those are no
> > different than the OE tubes put in the 520, 820, 530, and 830
> > series. In other words, they're 6146B type tubes. Give 'em the same
> > check out and treatment you would with the tubes in you 830S.
> >
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > <digs4ruff@> wrote:
> > >
> > > Ellen
> > > Thanks. The finals are S2001 tubes and may well be the originals.
> > > Under power the heaters glow and there is no arcing but have not
> > > tried TX, was simply checking for dead tubes and PS voltages.
> > > Voltages with a DVM are all on except as I recall the HV is about
> > > 900V.
> > > regards
> > > Barry

> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Hi Barry,
> > > >
> > > > Hi Barry,
> > > >
> > > > I don't see why you couldn't use an AC voltmeter to check
for
> > > > ripple. The caps that would concern me, would be the 100 uF
> > > caps.
> > > > 55 uF - that's a lot of drop. More than likely, they're
drying
> > > out,
> > > > and may give you a fair amount of ripple. While you're at
it,
> > > check
> > > > out the finals. If I remember right, like the TS-900 (and
my
> > Swan
> > > > 270B for that matter), they're sweep tubes. Sweep tubes can
last
> > > a
> > > > long time if they were taken good care of. But all too
often,
> > > sweep
> > > > tubes were not. They don't take abuse too well. They may be
shot.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > > <digs4ruff@> wrote:
> > > > >
> > > > > Well I finally have the TS-510 in my shop and have the
covers
> > > off
> > > > > doing some cleanup and painting. Over all the rig is in
not bad
> > > > > shape with some dirt and rust on the covers and chassis.
> > > > >
> > > > > One of the diode rectifiers in the PS has been replaced.
The
> > > > > originals are SE-05's and the replacement is a 1N4004.
When I
> > > look
> > > > > both of these up on NTEs cross reference I get NTE116 as
the

> > > cross
> > > > > reference. Can I assume that the 1N4004 is a substitute
for the
> > > SE-
> > > > > 05? All diodes check good with the Ohmeter but am
wondering if
> > > the
> > > > > SE-05s should be replaced while the PS is dismantled.
> > > > >
> > > > > On checking the PS electrolytic capacitors with a Heathkit
C-3
> > > > which
> > > > > is calibrated using new electrolytics the PS 47uf caps are
> > > reading
> > > > > about 35uf and the 100uf caps are reading about 55uf. No
leaks
> > > or
> > > > > shorts. Are these still considered serviceable or would I
need
> > > to
> > > > > use a scope to read the amount of ripple to judge if they
need
> > > > > replacing. I don't have a scope so could I use an AC
voltmeter
> > > > > across the cap to measure the ripple.
> > > > >
> > > > > Just the first of many questions but hopefully with
adequate
> > > photos
> > > > > and records I may help the next lucky person to acquire
one of
> > > > these
> > > > > fine rigs.
> > > > >
> > > > > TIA
> > > > > Barry
> > > > > VA7GEM
> > > > >
> > > >
> > >
> >
>

10295. Schottky Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 05:10:15 UTC
From: Gordon
Topic: 9980 Message: 10295

Ok, All my 400 Diodes have been sold and shipped. The last matched 4 are going out tomorrow to KG7FS, Rich.
Thanks to everyone that showed interest in these Diodes. It was fun yet daunting to match them all. I did this at NO profit to myself and hope that I have helped many others aquire the Schottky Diodes they needed.
Thanks to everyone that Ordered .
73,
Gordon
N6WK

10296. Re: [TS-520_820_530_830] Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 08:38:02 UTC
From: n9wb
Topic: 10292 Message: 10296

I have not tried this but it might be worth a try. Just do it so it can be returned to original if you do not like it.

I am not sure that more sensitivity is beneficial. What this will do is increase the output from the first RF amplifier because it will no longer be controlled by the AGC. By driving the next stages harder, the signal/ noise ratio will be a bit better only if you reduce the RF gain to the same sensitivity that you had with full RF gain before the mod. This will not make any improvement when using the RF attenuator. It will cause the rig to be more likely to overload with strong signals and perhaps hear cross modulation and images. This may or may not be a problem depending how high of an RF environment you are in.

A 1/4 watt or even an 1/8 watt resistor should be satisfactory as the current will be very low.

I am personally skeptical of such mods and I usually avoid them. This will degrade the intercept point and dynamics of the receiver so it will be a trade off. The reduction in noise will be to slightly reduce the noise that you hear with the rig connected to a dummy load. As far as the increase in sensitivity, increased sensitivity will only be of benefit on 10 and perhaps 15 meters. On other bands, the atmospheric noise is greater than the receiver shot noise so the extra gain will amplify the signal and the atmospheric noise equally. The S/n ratio will remain the same.

If increasing sensitivity beyond .4 uV or so would make weak signals be heard better, Many people would be into FET pre amps big time. But with AM (SSB is a form of AM) once the signal is into the atmospheric noise it cannot be brought out because amplifying what is coming into the rig will amplify the noise and signal equally thus the S/n ratio will remain the same.

This is why Television antenna pre amps are mounted on the antenna. These do not improve the S/n ratio at the antenna but do raise the complex signal level so it will remain above noise gained in the feedline. In other words, it makes up for the feedline loss as though the TV set were at the antenna. A TV picture is AM.

With FM, Limiters in the receiver remove the AM component. Since noise is AM, striping the AM component will improve the S/n ratio so a preamp on the back of a FM rig can recover the S/n ratio. If we tried to use a limiter on SSB, we would strip the signal as well as the noise so we cannot do this.

So I guess what I am saying is that once you have .5 or .4 uv sensitivity, more sensitivity gains nothing.

The more I think about and write this, the more I become discouraged with this mod.

The diode mod that we have been discussing may give you an improvement. Besides the diodes having a bit less shot noise, they produce less intermodulation and harmonic distortion. When noise pulses intermodulate or harmonize, they create additional noise pulses so the noise spectrum becomes more dense. The improved diodes will slightly help pull weak signals

out of the muck because your demodulator will not be generating additional muck.

"Muck".... a new term to go in the glossery of the ARRL handbook Hi.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 16, 2006 7:47 PM
Subject: [TS-520_820_530_830] Increased sensitivity

Has anyone tried this mod?

I'm thinking about doing this, but wanted to get an opinion or two
before venturing in. Oh, and the 10k resistor I have is a 1/4W.
Would that do?

Meanwhile, the mod text says:

1. Increased sensitivity.

On the RF board, Q5 is the RF RX amp. Notice that G2 is tied to the
AGC line.
Bend G2 up from the socket, solder a 10k resistor to it and connect
the other end of the resistor to the 9v line on the front of the
board. This will allow the FET to run wide open, and you will have a
better S/N ratio. You will gain about two S units in signal and you
may want to adjust your S meter to compensate. I did this mod almost a
year ago and have had no problems even with signals that were 40db over!

SOURCE: http://www.radiomods.co.nz/kenwood/kenwoodts520.html

Thanks!

73. Frank K2NCC

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/476 - Release Date: 10/14/06

[Non-text portions of this message have been removed]

10297. Re: Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 08:08:02 UTC
From: Valued Customer
Topic: 10292 Message: 10297

Thank you. One of the most detailed and enlightening posts I've
received! I think this is a good rig as it is, but am always looking
for a cheap way to get my ears (or mouth) a bit bigger.

Thanks again!

f

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I have not tried this but it might be worth a try. Just do it so it
can be returned to original if you do not like it.[snip]

10298. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 09:45:37 UTC
From: n9wb
Topic: 10247 Message: 10298

Barry:

When you get this going and cleaned up please post some pictures of it in the files section or send them to me and I will post them somewhere. I think this is a fairly rare species.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

10299. Re: [TS-520_820_530_830] Re: Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 10:34:02 UTC
From: n9wb
Topic: 10292 Message: 10299

Do the diode mod ! Walt
----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 17, 2006 3:08 AM
Subject: [TS-520_820_530_830] Re: Increased sensitivity

Thank you. One of the most detailed and enlightening posts I've
received! I think this is a good rig as it is, but am always looking
for a cheap way to get my ears (or mouth) a bit bigger.

Thanks again!

f

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I have not tried this but it might be worth a try. Just do it so it
can be returned to original if you do not like it.[snip]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/477 - Release Date: 10/16/06

[Non-text portions of this message have been removed]

10300. Re: Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 11:22:09 UTC
From: Valued Customer
Topic: 10292 Message: 10300

Hey Walt. Why?

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do the diode mod ! Walt

10301. Re: [TS-520_820_530_830] Re: Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 12:35:33 UTC
From: n9wb
Topic: 10292 Message: 10301

If you are wanting to improve your rig, the diode mod will give you cleaner receive and clearer transmit. the improvement won't be earth shaking, but will do more good than the FET gate modification.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 17, 2006 6:22 AM
Subject: [TS-520_820_530_830] Re: Increased sensitivity

Hey Walt. Why?

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do the diode mod ! Walt

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/477 - Release Date: 10/16/06

[Non-text portions of this message have been removed]

10302. Re: Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 11:46:21 UTC
From: Valued Customer
Topic: 10292 Message: 10302

Now I'm torn! Anyone care to be a tie-breaker more more info or opinion?

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> If you are wanting to improve your rig, the diode mod will give you cleaner receive and clearer transmit. the improvement won't be earth shaking, but will do more good than the FET gate modification.
>
> Vy 73, Walt N9WB

10303. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 12:37:21 UTC
From: digs4ruff
Topic: 10247 Message: 10303

Walt
The first of the photos have been uploaded to the photos section
under VA7GEM
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Barry:
>
> When you get this going and cleaned up please post some pictures
of it in the files section or send them to me and I will post them
somewhere. I think this is a fairly rare species.
>
> Vy 73, Walt N9WB
>
>
> [Non-text portions of this message have been removed]
>

10304. Mods Done

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 13:29:50 UTC
From: w7cth
Topic: 10255 Message: 10304

I would like to report with the help of this group. I have all the mods done that I am going to do for now.C106 mic audio, report is good with a Heil GM-5. New tubes the output went from 80W to 100W. With the dioeds and 100 onm on the IF board PD mod. can't tell all that much because the radio is new to me anyway.Deoxit all the controls and major cleaning inside and out.The radio looks like it is off the show room floor.

Thanks Guys
Chris W7CTH

10305. Re: [TS-520_820_530_830] Mods Done

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 15:14:51 UTC
From: Rick KC0HH
Topic: 10255 Message: 10305

Hi Chris,

Great! Sounds like you need a new project now..Hi I was going to tell not to throw the old tubes away, but for $34.50 for a set of new tubes, they probably are not worth keeping. I am working nights this week so any HF schedule will have to be Friday or Saturday night...

73' Rick KC0HH
Lamar, Colorado

w7cth <w7cth@...> wrote: I would like to report with the help of this group. I have all the mods done that I am going to do for now.C106 mic audio, report is good with a Heil GM-5. New tubes the output went from 80W to 100W. With the dioeds and 100 onm on the IF board PD mod. can't tell all that much because the radio is new to me anyway.Deoxit all the controls and major cleaning inside and out.The radio looks like it is off the show room floor.

Thanks Guys
Chris W7CTH

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10306. Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 16:02:12 UTC
From: David Rust
Topic: 10306 Message: 10306

Does anyone else get flooded with junk mail because they have been a member of a Yahoo group. I constantly get offers for everything you can think of directed to a Drake radio users group that I havent belonged too in a year. I can't get rid of the spammers from it.
W0DLR

[Non-text portions of this message have been removed]

10307. RE: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 16:35:13 UTC
From: BRENT BAUM
Topic: 10306 Message: 10307

No problems with this group. Our moderators do a great job.
Brent, K7MEI

>From: "David Rust" <dlrust@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] Junk mail
>Date: Tue, 17 Oct 2006 11:02:12 -0500
>
>Does anyone else get flooded with junk mail because they have been a member
>of a Yahoo group. I constantly get offers for everything you can think of
>directed to a Drake radio users group that I havent belonged too in a year.
> I can't get rid of the spammers from it.
>W0DLR
>
>[Non-text portions of this message have been removed]
>

10308. Re: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 16:47:32 UTC
From: N6WK
Topic: 10306 Message: 10308

Dace,
I think Spam is just a lurking dragon. I am getting all kinds of returned Mail, That I never sent. Someone overseas is sending all this spam for the PK stocks and spoofing the header to make it appear that it is coming from n6wk.com
I called my ISP, and unfortunately, there is Nothing I can about it. They verified that no one hacked into my site to send the mail.
I am going to have to learn how to read an email header to figure out where the mails are originating so I can file a complaint with that provide..
Very Frustrating. I feel your pain !

Gordon
N6WK

David Rust wrote:

> Does anyone else get flooded with junk mail because they have been a
> member of a Yahoo group. I constantly get offers for everything you
> can think of directed to a Drake radio users group that I havent
> belonged too in a year. I can't get rid of the spammers from it.
> W0DLR
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10309. Re: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 16:49:43 UTC
From: Rick KC0HH
Topic: 10306 Message: 10309

Hi David,

I used to get quite a bit of junk mail but I kept tagging them as spam and eventually they stopped getting through the filters.

73' Rick KC0HH

David Rust <dlrust@...> wrote: Does anyone else get flooded with junk mail because they have been a member of a Yahoo group. I constantly get offers for everything you can think of directed to a Drake radio users group that I havent belonged too in a year. I can't get rid of the spammers from it.
W0DLR

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10310. Re: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 16:57:06 UTC
From: Rich Jones
Topic: 10306 Message: 10310

Dave: I am getting lots of junk from people pretending to be from ebay. If you get bogus ebay email you can forward it to spoof@... unfortunately I think they do little to stop it. I get between 20 to 40 pieces of junk mail a day. I don't open, delete it and delete the delete file. You also need to go into Microsoft Outlook (if you use that as I do) and delete the deleted-deleted files they store in options (it is at the bottom page of options). Nothing is simple anymore. Rich

David Rust <dlrust@...> wrote: Does anyone else get flooded with junk mail because they have been a member of a Yahoo group. I constantly get offers for everything you can think of directed to a Drake radio users group that I havent belonged too in a year. I can't get rid of the spammers from it.
W0DLR

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10311. Re: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 17:28:57 UTC
From: Bert Morton
Topic: 10306 Message: 10311

I frequent 43 Yahoo lists and rarely receive spam email associated with these groups. Once every month or so one sneaks in.

Setting your email preferences at Yahoo to accept offers etc. will generate junk, so perhaps that's what's happening. You might want to check that.

----- Original Message -----
From: "David Rust" <dlrust@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, October 17, 2006 12:02 PM
Subject: [TS-520_820_530_830] Junk mail

> Does anyone else get flooded with junk mail because they have been a
> member of a Yahoo group. I constantly get offers for everything you can
> think of directed to a Drake radio users group that I havent belonged too
> in a year. I can't get rid of the spammers from it.
> W0DLR
>

10312. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 18:05:32 UTC
From: Ellen R
Topic: 10247 Message: 10312

Afternoon Barry,

Sorry about that. You are right, the S2001A tubes were used in the TS-820 & TS-520. So you're using a variation of the 6146A - hmmmmmm. You still have a final amplifier tube, BUT there's a good chance that it may NOT be interchangeable with the more common 6146B. The biasing is different for the two tubes, and sometimes you can end up with parasitic oscillations if you use the 6146B in place of the 6146A. If you look in the group's Files section, the word document about the 6146 family of tubes, provides additional info on this family of tubes. Good luck on getting your TS-510 going. I wouldn't mind getting my hands on a TS-900. Like your 510, it's a unique rig. Let us know how it goes, and if you're looking for an on-the-air test QSO, I'll be more than happy to oblige you.

73,
Ellen - AF9J

<digs4ruff@...> wrote:
>
> Ellen
> TVM but now I am getting confused. This happens a lot as age creeps
> up.
>
> The TS-510 has S2001 tubes which as I find on Google search are
> equivalent to 6146/6146A.
>
> The TS-820S has S2001A tubes which I understand are equivalent to
> 6146B/6146W.
>
> Are these all inter changeable or not. Getting really confused.
> Which way is North.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Barry, if they're S2001 tubes, you should be OK. Those are no
> > different than the OE tubes put in the 520, 820, 530, and 830
> > series. In other words, they're 6146B type tubes. Give 'em the
> same
> > check out and treatment you would with the tubes in you 830S.
> >
> > Ellen - AF9J
> >

> > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > <digs4ruff@> wrote:
> > >
> > > Ellen
> > > Thanks. The finals are S2001 tubes and may well be the
> originals.
> > > Under power the heaters glow and there is no arcing but have
not
> > > tried TX, was simply checking for dead tubes and PS voltages.
> > > Voltages with a DVM are all on except as I recall the HV is
> about
> > > 900V.
> > > regards
> > > Barry
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > <ellenjoanne2003@> wrote:
> > > >
> > > > Hi Barry,
> > > >
> > > > Hi Barry,
> > > >
> > > > I don't see why you couldn't use an AC voltmeter to check for
> > > > ripple. The caps that would concern me, would be the 100 uF
> > > caps.
> > > > 55 uF - that's a lot of drop. More than likely, they're
> drying
> > > out,
> > > > and may give you a fair amount of ripple. While you're at
it,
> > > check
> > > > out the finals. If I remember right, like the TS-900 (and my
> > Swan
> > > > 270B for that matter), they're sweep tubes. Sweep tubes can
> last
> > > a
> > > > long time if they were taken good care of. But all too
often,
> > > sweep
> > > > tubes were not. They don't take abuse too well. They may be
> shot.
> > > >
> > > > 73,
> > > > Ellen - AF9J
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > > <digs4ruff@> wrote:
> > > > >
> > > > > Well I finally have the TS-510 in my shop and have the
> covers

> > > off
> > > > > doing some cleanup and painting. Over all the rig is in not
> bad
> > > > > shape with some dirt and rust on the covers and chassis.
> > > > >
> > > > > One of the diode rectifiers in the PS has been replaced.
The
> > > > > originals are SE-05's and the replacement is a 1N4004. When
> I
> > > look
> > > > > both of these up on NTEs cross reference I get NTE116 as
the
> > > cross
> > > > > reference. Can I assume that the 1N4004 is a substitute for
> the
> > > SE-
> > > > > 05? All diodes check good with the Ohmeter but am wondering
> if
> > > the
> > > > > SE-05s should be replaced while the PS is dismantled.
> > > > >
> > > > > On checking the PS electrolytic capacitors with a Heathkit
C-
> 3
> > > > which
> > > > > is calibrated using new electrolytics the PS 47uf caps are
> > > reading
> > > > > about 35uf and the 100uf caps are reading about 55uf. No
> leaks
> > > or
> > > > > shorts. Are these still considered serviceable or would I
> need
> > > to
> > > > > use a scope to read the amount of ripple to judge if they
> need
> > > > > replacing. I don't have a scope so could I use an AC
> voltmeter
> > > > > across the cap to measure the ripple.
> > > > >
> > > > > Just the first of many questions but hopefully with
adequate
> > > photos
> > > > > and records I may help the next lucky person to acquire one
> of
> > > these
> > > > > fine rigs.
> > > > >
> > > > > TIA
> > > > > Barry
> > > > > VA7GEM

> > > > >
> > > >
> > >
> >
>

10313. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 18:30:08 UTC
From: Ellen R
Topic: 10247 Message: 10313

It is Walt,

It is the earliest Models I'm aware of, that was marketed internationally under the Kenwood or Trio name. Previously, the only Kenwoods that were imported to North America, were a few transmitters, receivers, and VHF rigs, that were imported by Lafayette Electronics under their brand name. Not many were imported to North America. The 510, was also capable of doing AM.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Barry:
>
> When you get this going and cleaned up please post some pictures of it in the files section or send them to me and I will post them somewhere. I think this is a fairly rare species.
>
> Vy 73, Walt N9WB
>
>
> [Non-text portions of this message have been removed]
>

10314. Re: Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 18:29:54 UTC
From: max_ve3tmt
Topic: 10306 Message: 10314

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Does anyone else get flooded with junk mail because they have been a
member of a Yahoo group. I constantly get offers for everything you
can think of directed to a Drake radio users group that I havent
belonged too in a year. I can't get rid of the spammers from it.
> W0DLR

I have my settings to not receive any e-mail from any of the groups I
belong to. I read it all here!

Max VE3TMT

10315. Re: [TS-520_820_530_830] Re: Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 19:05:18 UTC
From: Bert Morton
Topic: 10306 Message: 10315

Huh?

I have my settings to not receive any e-mail from any of the groups I
belong to. I read it all here!

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/477 - Release Date: 10/16/2006

10316. Re: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 19:32:47 UTC
From: Max Harelik
Topic: 10306 Message: 10316

" I am going to have to learn how to read an email header to figure out where the mails are originating..." <snip>

Gordon, ask your ISP. There's a standard DOS routine that will track the originating IP address. I've got it around here somewhere. If I can dig it up, I'll send it to you.

73,
Max, K5OVW

10317. RE: [TS-520_820_530_830] Processor Fixed!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 20:17:58 UTC
From: Walter Milton
Topic: 9995 Message: 10317

Gorden,

Just returned home from a trip and if I remember correctly. I had some large prints made at Staples and the were way cheaper them the price quoted to you by Kinko's. The prints were as large or larger then the 36" print you are talking about. Try staples or maybe you can get one of the Technical high school to print it for you. That is if they have plotters that large.

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of N6WK
Sent: Wednesday, October 11, 2006 7:39 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Processor Fixed!

Hi Rick.
That is Great that you located the problem. It always feels good when you figure it out. Which Diode was it?
Also, I called Kinkos about printing out Kens Schematic to 36 inches. The guy there said it was $10.00 a SQUARE foot. Well I thought that would come out to $ 90 bucks, (3 X 3 = 9 Square Feet) but he said, no. it's only $30.00 or so plus tax
Now, $30.00 seems expensive, ($90 would have been outrageous) but it sure would be easier on the eyes. I think I will go get it done tomorrow.

73,
Gordon

Rick KC0HH wrote:

> Hi All,
>
> Well, I tracked down an open diode on the I.F. board, replaced it and
> now the processor works again.
>
> For those of you who have not visited Ken Kemski's (K4EAA) web site he
> has a very large format color schematic of the 830S with voltage test
> points labeled available for download. By large I mean it will print
> out a 36" wide sheet if you take the file to a Kinkos or other
> commercial printer. He also has a wealth of information on Kenwood

> hybrid radios besides being kind enough to take the time to cut and
> paste the various board schematics, piece them together into one large
> page, label voltage test ponts and make it available to all. His site
> is www.k4eaa.com
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10318. Re: [TS-520_820_530_830] Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 21:18:14 UTC
From: Chris HEmbree
Topic: 10306 Message: 10318

You will never get rid of it. Once it starts it will never get better.
Make yourself a new email address for this group and never use your email for anything other than this group. Yahoo is bad on spam if you use your email for other things.
Chris..

Max Harelik <mharelik@...> wrote: " I am going to have to learn how to read an email header to figure out
where the mails are originating..." <snip>

Gordon, ask your ISP. There's a standard DOS routine that will track the
originating IP address. I've got it around here somewhere. If I can dig
it up, I'll send it to you.

73,
Max, K5OVW

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10319. Re: Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 23:27:02 UTC
From: max_ve3tmt
Topic: 10306 Message: 10319

--- In TS-520_820_530_830@yahoogroups.com, "Bert Morton"
<hamradioguy@...> wrote:
>
> Huh?

Bert,

Edit your membership and select the setting to "not receive e-mail"
That way if there is any spam posted to the group it will show up here
and not in your mailbox.

Max

10320. Re: [TS-520_820_530_830] Re: Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 23:36:53 UTC
From: John Harp
Topic: 10306 Message: 10320

Word of advice, use the e-mail adress for your groups and nothing else. I'm set up a several yahoo groups. Otherwise you get spammed to no end.

max_ve3tmt <max_ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...>
wrote:
>
> Does anyone else get flooded with junk mail because they have been a member of a Yahoo group. I constantly get offers for everything you can think of directed to a Drake radio users group that I havent belonged too in a year. I can't get rid of the spammers from it.
> W0DLR

I have my settings to not receive any e-mail from any of the groups I belong to. I read it all here!

Max VE3TMT

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10321. Re: [TS-520_820_530_830] Mods Done

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 23:45:30 UTC
From: John Harp
Topic: 10255 Message: 10321

Well how is it on the air. Performance is what I'm watching this for.

w7cth <w7cth@...> wrote: I would like to report with the help of this group. I have all the mods done that I am going to do for now.C106 mic audio, report is good with a Heil GM-5. New tubes the output went from 80W to 100W. With the dioeds and 100 onm on the IF board PD mod. can't tell all that much because the radio is new to me anyway.Deoxit all the controls and major cleaning inside and out.The radio looks like it is off the show room floor.

Thanks Guys
Chris W7CTH

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10322. Re: [TS-520_820_530_830] Re: Increased sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 23:49:47 UTC
From: John Harp
Topic: 10292 Message: 10322

I'm watching it to see how much improvement in performance it gives. I say sit tight.I just got a 2 meter transverter in and I'd like to see if it's worth it on VHF.

Valued Customer <defaultprofile@...> wrote: Now I'm torn! Anyone care to be a tie-breaker more more info or opinion?

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> If you are wanting to improve your rig, the diode mod will give you cleaner receive and clearer transmit. the improvement won't be earth shaking, but will do more good than the FET gate modification.
>
> Vy 73, Walt N9WB

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10323. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-17 23:57:54 UTC
From: Peter A Markavage
Topic: 10247 Message: 10323

Don't forget the TS-511 and TS-900. Trio also made equipment sold under the Allied name. All of Lafayette's "famous" late 50's and early to mid 60's receivers (amateur and general coverage) were made by Trio. Lafayette's two transmitter models were made in the U. S. Trio also made several of Lafayette's amateur VHF transceivers.

Pete, wa2cwa

On Tue, 17 Oct 2006 18:30:08 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> It is Walt,
>
> It is the earliest Models I'm aware of, that was marketed
> internationally under the Kenwood or Trio name. Previously, the
> only
> Kenwoods that were imported to North America, were a few
> transmitters,
> receivers, and VHF rigs, that were imported by Lafayette Electronics
>
> under their brand name. Not many were imported to North America.
> The
> 510, was also capable of doing AM.
>
> 73,
> Ellen - AF9J

10324. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 00:15:02 UTC
From: Clif
Topic: 10247 Message: 10324

I meant to say S2001A. I don't have anything on the TS510 so don't know what is in it. The TS-511 used 6LQ6's.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Clif
> The confusion continues. My TS-820S manual and my original tubes are
> S2001A not S2001 which are in the TS-510.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@> wrote:
> >
> > The S2001 is the Japanese equivalent to the 6146B. They were OE in
> the
> > 520/820 series. The OE tubes in the 530/830 were 6146B's.
> >
> > Actually the S2001 is a better tube than the 6146B IMHO. I have
> never
> > seen a pair if 6146B's in a 520/820 make as much power as the OE
> S2001's.
> >
> > Clif
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> > >
> > > Barry, if they're S2001 tubes, you should be OK. Those are no
> > > different than the OE tubes put in the 520, 820, 530, and 830
> > > series. In other words, they're 6146B type tubes. Give 'em the
> same
> > > check out and treatment you would with the tubes in you 830S.
> > >
> > > Ellen - AF9J
> > >
> > > --- In TS-520_820_530_830@...m, "digs4ruff"
> > > <digs4ruff@> wrote:
> > > >
> > > > Ellen
> > > > Thanks. The finals are S2001 tubes and may well be the
> originals.

> > > > Under power the heaters glow and there is no arcing but have
> not
> > > > tried TX, was simply checking for dead tubes and PS voltages.
> > > > Voltages with a DVM are all on except as I recall the HV is
> about
> > > > 900V.
> > > > regards
> > > > Barry
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > > > <ellenjoanne2003@> wrote:
> > > > >
> > > > > Hi Barry,
> > > > >
> > > > > Hi Barry,
> > > > >
> > > > > I don't see why you couldn't use an AC voltmeter to check
> for
> > > > > ripple. The caps that would concern me, would be the 100 uF
> > > > caps.
> > > > > 55 uF - that's a lot of drop. More than likely, they're
> drying
> > > > out,
> > > > > and may give you a fair amount of ripple. While you're at
> it,
> > > > check
> > > > > out the finals. If I remember right, like the TS-900 (and
> my
> > > Swan
> > > > > 270B for that matter), they're sweep tubes. Sweep tubes can
> last
> > > > a
> > > > > long time if they were taken good care of. But all too
> often,
> > > > sweep
> > > > > tubes were not. They don't take abuse too well. They may be
> shot.
> > > > >
> > > > > 73,
> > > > > Ellen - AF9J
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> > > > > <digs4ruff@> wrote:
> > > > > >
> > > > > > Well I finally have the TS-510 in my shop and have the
> covers
> > > > off
> > > > > > doing some cleanup and painting. Over all the rig is in
> not bad
> > > > > > shape with some dirt and rust on the covers and chassis.

> > > > > >
> > > > > > One of the diode rectifiers in the PS has been replaced.
> The
> > > > > > originals are SE-05's and the replacement is a 1N4004.
> When I
> > > > look
> > > > > > both of these up on NTEs cross reference I get NTE116 as
> the
> > > > cross
> > > > > > reference. Can I assume that the 1N4004 is a substitute
> for the
> > > > SE-
> > > > > > 05? All diodes check good with the Ohmeter but am
> wondering if
> > > > the
> > > > > > SE-05s should be replaced while the PS is dismantled.
> > > > > >
> > > > > > On checking the PS electrolytic capacitors with a Heathkit
> C-3
> > > > > which
> > > > > > is calibrated using new electrolytics the PS 47uf caps are
> > > > reading
> > > > > > about 35uf and the 100uf caps are reading about 55uf. No
> leaks
> > > > or
> > > > > > shorts. Are these still considered serviceable or would I
> need
> > > > to
> > > > > > use a scope to read the amount of ripple to judge if they
> need
> > > > > > replacing. I don't have a scope so could I use an AC
> voltmeter
> > > > > > across the cap to measure the ripple.
> > > > > >
> > > > > > Just the first of many questions but hopefully with
> adequate
> > > > photos
> > > > > > and records I may help the next lucky person to acquire
> one of
> > > > > these
> > > > > > fine rigs.
> > > > > >
> > > > > > TIA
> > > > > > Barry
> > > > > > VA7GEM
> > > > > >
> > > > >
> > > >
> > >
> >

>

10325. TV-502 has arrived.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 01:01:26 UTC
From: John Harp
Topic: 10325 Message: 10325

I won a bid on ebay for a TV-502 transverter with no manual or cables. I will be looking into it's setup to an 830. Anyone with information reguarding the process would be appreciated. Thank You.

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10326. Re: Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 01:05:56 UTC
From: norman_y
Topic: 10306 Message: 10326

David,

If I understand you correctly, you say you are getting SPAM from the Drake list? As one of the other posters has pointed out, spammers will spoof emails in a heartbeat.

I work for the NC Attorney General's Office. About 3 months ago, we switched our email system and my email address changed. We have some of the heaviest filtering you can imagine and spam still gets through. Not only that, it has not taken the spammers long to start spoofing my new work email address. I am regularly getting bounced messages returned to me that I never sent.

One excellent thing about this group is that the moderators have to physically approve all members. On lists that do not require moderator approval to join, you will get a ton of spam. I do not moderate or belong to any group that does not require moderator approval for that reason alone. A spammer can spoof the list email all he or she wants, and it will never get to the group!

Just to give this some relevance to radio, I am thoroughly enjoying reading about all the mods and restorations being discussed lately, not to mention learning a great deal in the process!

73,
Norman
KA4PUV

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> Does anyone else get flooded with junk mail because they have been a member of a Yahoo group. I constantly get offers for everything you can think of directed to a Drake radio users group that I havent belonged too in a year. I can't get rid of the spammers from it.
> W0DLR
>
> [Non-text portions of this message have been removed]
>

10327. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 01:11:32 UTC
From: Ellen R
Topic: 10247 Message: 10327

Ooops! Sorry Pete!

I meant that not many TS-510s were imported into the US. Sorry I wasn't clearer. Yeah I know that Trio/Kenwood was one of the main suppliers for Lafayette (I'd forgtten about Allied). I think the TS-510 predates the TS-900. I wish I could get my hands on a TS-900, I think they look cool, and if they're anything like the T-599, they probably do decent AM.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Don't forget the TS-511 and TS-900. Trio also made equipment sold under
> the Allied name. All of Lafayette's "famous" late 50's and early to mid
> 60's receivers (amateur and general coverage) were made by Trio.
> Lafayette's two transmitter models were made in the U. S. Trio also made
> several of Lafayette's amateur VHF transceivers.
>
> Pete, wa2cwa
>
> On Tue, 17 Oct 2006 18:30:08 -0000 "Ellen R"
> <ellenjoanne2003@...> writes:
> > It is Walt,
> >
> > It is the earliest Models I'm aware of, that was marketed
> > internationally under the Kenwood or Trio name. Previously, the
> > only
> > Kenwoods that were imported to North America, were a few
> > transmitters,
> > receivers, and VHF rigs, that were imported by Lafayette Electronics
> >
> > under their brand name. Not many were imported to North America.
> > The
> > 510, was also capable of doing AM.
> >
> > 73,
> > Ellen - AF9J
>

10328. Re: [TS-520_820_530_830] Re: Junk mail

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 01:18:06 UTC
From: David Rust
Topic: 10306 Message: 10328

Norman, I only get spam thru one other list Drake users. Email me direct if you would tell me how to get it stopped. w0dlr@... will work.
dlr

[Non-text portions of this message have been removed]

10329. TS530 is blowing fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 02:26:08 UTC
From: Rich Jones
Topic: 10329 Message: 10329

On CW ten meters this evening, local ground plane and USB also local ground plane. Started to blow a fuse, not only on CW but USB. I always use the tune method, dip plate, peak grid,etc. Never had a problem until tonight. I am moving tghe shack around. The manual tuner is grounded but not the rig. Of course the outher coax transfers a good earth ground directly outside the shack. I even blow a fuse at 40 watts out?? Sounds like a bias problem or a bad final? Any recommendations?

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10330. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 03:16:23 UTC
From: digs4ruff
Topic: 10247 Message: 10330

Ellen
The 510 will only do USB, LSB, & CW. No AM
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> It is Walt,
>
> It is the earliest Models I'm aware of, that was marketed
> internationally under the Kenwood or Trio name. Previously, the
only
> Kenwoods that were imported to North America, were a few
transmitters,
> receivers, and VHF rigs, that were imported by Lafayette Electronics
> under their brand name. Not many were imported to North America.
The
> 510, was also capable of doing AM.
>
> 73,
> Ellen - AF9J

10331. Re: [TS-520_820_530_830] Mods Done

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 03:50:21 UTC
From: Chris HEmbree
Topic: 10255 Message: 10331

I was told the audio was good!!
Chris..

John Harp <ka3dpw@...> wrote: Well how is it on the air. Performance is what I'm watching this for.

w7cth <w7cth@...> wrote: I would like to report with the help of this group. I have all the mods done that I am going to do for now.C106 mic audio, report is good with a Heil GM-5. New tubes the output went from 80W to 100W. With the dioeds and 100 onm on the IF board PD mod. can't tell all that much because the radio is new to me anyway.Deoxit all the controls and major cleaning inside and out.The radio looks like it is off the show room floor.

Thanks Guys
Chris W7CTH

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10332. new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 03:17:05 UTC
From: cpitre_01
Topic: 10332 Message: 10332

Hello all,

I am new to the group and I am lucky enough to own a ts 520. I actually have almost a complete station, that includes the 520, the at200 tuner, the sp520 speaker, the vfo 520, the TS 520, mc50 mic and a pc1a phone patch. I purchased it off another Ham who was downsizing. Any way I have a couple of questions.

Could I connect a keyer to this radio so I can use an iambic paddle? If so is there a specific model I should get.

And when should I think about replacing the tubes, I don't know if the tubes in the radio are original.

Thanks all
Chris
VE3CTP

10333. Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 05:08:47 UTC
From: David S Lund
Topic: 9340 Message: 10333

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.
>

Thanks Walt,

Well this morning I think that it gave it up. :) Got up this morning and turned on the radio and was just listening on 80 meters and all or a sudden there was a series of loud 'pops'. No smoke or fried smell. I shut it off. Looking inside I found that the cathode resistors were both open. Checked R5 and R6 on the final board and one of them ohmed out at 125 ohms. Replaced both of them and the cathode resistors R2 and R3. While I was in there replacing those I found a ceramic cap - one of the .047uf ones and it had flamed and was charred on the top - may be where the smoke came from??

While I'm in here I'm changing out the three resistors R5, R6 and R7 on the high voltage board.

Do you know what the value of C3 is? Looks like .047uf - do you know what voltage?

Thanks for all your help.

David KB5DRJ

10334. Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 11:37:37 UTC
From: n9wb
Topic: 9340 Message: 10334

If you are asking about C-3 on the Final board, this is .047 uf at 100 v. You should also replace C-4 that is the same thing. changing out R-5,6,and 7 on the HV board is a good idea.

I am concerned, however. You may have shorted tubes. You are cruising for a needlessly blown transformer. Look up the article "save your transformer" and build a light bulb tester. Please take my advice on this and do not operate the rig any more until you have it in line. Transformers are very expensive and very hard to get.

Vy 73, Walt N9WB

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 12:08 AM
Subject: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.
>

Thanks Walt,

Well this morning I think that it gave it up. :) Got up this morning and turned on the radio and was just listening on 80 meters and all or a sudden there was a series of loud 'pops'. No smoke or fried smell. I shut it off. Looking inside I found that the cathode resistors were both open. Checked R5 and R6 on the final board and one of them ohmed out at 125 ohms. Replaced both of them and the cathode resistors R2 and R3. While I was in there replacing those I found a ceramic cap - one of the .047uf ones and it had flamed and was charred on the top - may be where the smoke came from??

While I'm in here I'm changing out the three resistors R5, R6 and R7 on the high voltage board.

Do you know what the value of C3 is? Looks like .047uf - do you know what voltage?

Thanks for all your help.

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

10335. Re: new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 10:54:43 UTC
From: max_ve3tmt
Topic: 10332 Message: 10335

--- In TS-520_820_530_830@yahoogroups.com, "cpitre_01" <cpitre_01@...>
wrote:

> Hello all,

> Could I connect a keyer to this radio so I can use an iambic paddle?
> If so is there a specific model I should get.
>
> And when should I think about replacing the tubes, I don't know if the
> tubes in the radio are original.

Hi Chris,

Welcome to the group. Regarding the keyer, you can use an external keyer with a set of paddles but if the 520 is like the 830, there is -65V on the key line. You will need to put some kind of interface in there, unless the keyer will work with the older rigs. I believe some of the MFJ units will do both.

What are the tubes in there now? Have you looked at them? What kind of output are you getting from them? You may not need to change them for a long time yet.

Max VE3TMT (Kingston)

10336. RE: [TS-520_820_530_830] Re: new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 11:33:18 UTC
From: Darwin, Keith
Topic: 10332 Message: 10336

Max is right. You need to make sure your keyer can handle -65 VDC keying voltage from the rig. My keyer (Idiom) required that I swap a jumper inside the unit to switch from positive to negative keying voltage.

Many of the MFJ keyers are similar. They have outputs for either solid state (positive) or grid block (negative) keying but you need to change one or more jumpers inside to make the switch.

If you want your keyer to be able to handle either with no internal changes then you'll probably need an external "thing" to do that. There is one made, a solid-state relay. I believe it is sold through Morse Express (MorseX.com) and may be made by Island? I think it's something like $20 or so. I don't have web access at the moment or I'd have looked it up for ya!

73!

- Keith KD1E -
- TS-830s -

-----Original Message-----
From: max_ve3tmt

Welcome to the group. Regarding the keyer, you can use an external keyer with a set of paddles but if the 520 is like the 830, there is -65V on the key line. You will need to put some kind of interface in there, unless the keyer will work with the older rigs. I believe some of the MFJ units will do both.

10337. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 12:43:03 UTC
From: Ellen R
Topic: 10247 Message: 10337

Hmmm, maybe the Rigpix website (where I got my info. from) should be informed of this. It lists the TS-510 as being AM capable (and the TS-515 as not doing AM). BTW, anybody have a TS 900 or a set of the Twins (T599 & R599) they're willing to part with?

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Ellen
> The 510 will only do USB, LSB, & CW. No AM
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
> >
> > It is Walt,
> >
> > It is the earliest Models I'm aware of, that was marketed
> > internationally under the Kenwood or Trio name. Previously, the
> only
> > Kenwoods that were imported to North America, were a few
> transmitters,
> > receivers, and VHF rigs, that were imported by Lafayette Electronics
> > under their brand name. Not many were imported to North America.
> The
> > 510, was also capable of doing AM.
> >
> > 73,
> > Ellen - AF9J
>

10338. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 14:28:29 UTC
From: Max Harelik
Topic: 10247 Message: 10338

"anybody have a TS 900 or a set of the Twins (T599 & R599) they're willing to part with?" <snip>

Ellen,

e-bay has a pair listed (#260041927959). Two days left on the listing. The current high of 22 bids is $175.00.

73,
Max, K5OVW

10339. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 16:22:49 UTC
From: Peter A Markavage
Topic: 10247 Message: 10339

Personally, I would look for a 599 A or D pair. Then at least you don't have to keep lifting the top cover of the transmitter to diddle with the some of the controls. My D pair sound great on AM.

Pete, wa2cwa

On Wed, 18 Oct 2006 09:28:29 -0500 Max Harelik <mharelik@...> writes:
> "anybody have a TS 900 or a set of the Twins (T599 & R599) they're
> willing to part with?" <snip>
>
> Ellen,
>
> e-bay has a pair listed (#260041927959). Two days left on the
> listing.
> The current high of 22 bids is $175.00.
>
> 73,
> Max, K5OVW

10340. AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 19:09:00 UTC
From: George Copeland
Topic: 6938 Message: 10340

Does the antenna switch in the AT-230 tuner ground unused antennas?
If it is witched to "ant 1" are 2& 3 center conductors automatically
put to ground?
George W7ZVD

10341. Kenwood TS-520D Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 19:59:35 UTC
From: Stephen Davis
Topic: 10341 Message: 10341

Hello All,

Can anyone in the group tell me the difference between the TS-520S and
the TS-520D?

Thanks
Steve K7QHU

[Non-text portions of this message have been removed]

10342. Re: AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 20:41:37 UTC
From: max_ve3tmt
Topic: 6938 Message: 10342

--- In TS-520_820_530_830@yahoogroups.com, "George Copeland"
<gdrums@...> wrote:
>
> Does the antenna switch in the AT-230 tuner ground unused antennas?
> If it is witched to "ant 1" are 2& 3 center conductors automatically
> put to ground?
> George W7ZVD
>
George,

Looking at the schematic, it does appear that the unused antennas are
switched to ground. I have uploaded the manual into the files section
under "Manuals"

Max VE3TMT

10343. Re: [TS-520_820_530_830] Kenwood TS-520D Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 21:01:51 UTC
From: Rich Jones
Topic: 10341 Message: 10343

If you google Kenwood TS520D you will almost always find the sites are in Japanese and refer to the product as TRIO. More than likely the Japanese version of the S. A friend of mine has an Icom 760, he bought it in Japan when he was there and it is virtually a 761. Maybe the same with the Kenwood TS520D? I am sure you will get lots of replies. Good luck, Rich

Stephen Davis <sdavis@...> wrote: Hello All,

Can anyone in the group tell me the difference between the TS-520S and
the TS-520D?

Thanks
Steve K7QHU

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10344. Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 23:28:32 UTC
From: John Harp
Topic: 9340 Message: 10344

David check that transformer. Go back in the archives and find the procedure for save that transformer. You'll use the 100 watt light bulb to act as a ballast to check the transformer. Find out if it is any good.
I hope it is for you. Because they aren't cheap. I got lucky and someone had one in the group.
For example and this one won't fit yours, but to buy one for my radio off the store shelf I found was just a little over 127 US dollars. They're a hard to find item. From now on protect your radios. Come back and tell the group your results.

David S Lund <kb5drj@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.
>

Thanks Walt,

Well this morning I think that it gave it up. :) Got up this morning and turned on the radio and was just listening on 80 meters and all or a sudden there was a series of loud 'pops'. No smoke or fried smell. I shut it off. Looking inside I found that the cathode resistors were both open. Checked R5 and R6 on the final board and one of them ohmed out at 125 ohms. Replaced both of them and the cathode resistors R2

and R3. While I was in there replacing those I found a ceramic cap - one of the .047uf ones and it had flamed and was charred on the top - may be where the smoke came from??

While I'm in here I'm changing out the three resistors R5, R6 and R7 on the high voltage board.

Do you know what the value of C3 is? Looks like .047uf - do you know what voltage?

Thanks for all your help.

David KB5DRJ

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10345. product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 22:34:18 UTC
From: w6hv
Topic: 10345 Message: 10345

I just changed out the four diodes in the product detector, added the 100 ohm resistor, and also changed C-106 on the IF board. Turned on the rig and no audio! There is voltage across the resistor as viewed on a 'scope. However, the meter pegs full right and I hear the relay on the AF/AV board engage. I checked and found no crimped wires, pulled connectors or bridged solder joints. So, don't know what this old man did wrong, but any suggestions would be appreciated before I have to go through the entire rig.

Troy, W6HV

10346. Re: [TS-520_820_530_830] new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 23:38:14 UTC
From: John Harp
Topic: 10332 Message: 10346

Greetings and welcome to the group. Wish you well with the 520. What's it's wattage out put been like. Tell us that first.
As for the keying there are two basic types of keying. Your 520's manual tells you which type of keying you will need to use. Most keyers are capable of both types of keying. Most tube gear goes with the one type of keying and solid state generally goes with the other.
As the messages come to greet you someone will probably have an answer for you. I own TS-830 and my name is John.

cpitre_01 <cpitre_01@...> wrote:
Hello all,

I am new to the group and I am lucky enough to own a ts 520. I
actually have almost a complete station, that includes the 520, the
at200 tuner, the sp520 speaker, the vfo 520, the TS 520, mc50 mic and
a pc1a phone patch. I purchased it off another Ham who was
downsizing. Any way I have a couple of questions.

Could I connect a keyer to this radio so I can use an iambic paddle?
If so is there a specific model I should get.

And when should I think about replacing the tubes, I don't know if the
tubes in the radio are original.

Thanks all
Chris
VE3CTP

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10347. Re: product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 23:54:40 UTC
From: max_ve3tmt
Topic: 10345 Message: 10347

--- In TS-520_820_530_830@yahoogroups.com, "w6hv" <w6hv@...> wrote:
>
>
> I just changed out the four diodes in the product detector, added the
> 100 ohm resistor, and also changed C-106 on the IF board. Turned on the
> rig and no audio! There is voltage across the resistor as viewed on a
> 'scope. However, the meter pegs full right and I hear the relay on the
> AF/AV board engage. I checked and found no crimped wires, pulled
> connectors or bridged solder joints. So, don't know what this old man
> did wrong, but any suggestions would be appreciated before I have to go
> through the entire rig.
>
> Troy, W6HV

Troy,

First thing I would do is go back through all the connectors, making sure they are plugged into the proper mating connector. I write the connector number on the molex end as I remove them. Check for any you may have missed when you plugged them back in. I had no signal once and saw I forgot to plug the small coax cable back in at the rear. Did you notice any loose board side connectors when you removed the cables? I found quite a few on my IF board and a couple even came off with the wire. I made a point to resolder all the pins back on the board. I do this whenever I remove a board. Check to make sure all the diodes were put in the proper way. Make sure your RF gain isn't all the way down. I'm sure you checked all my suggestions but it's good to double check.

Max

10348. TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 00:30:57 UTC
From: PERRY
Topic: 6634 Message: 10348

Took a fews days off, then back to the NO TX on the TS520
I have Carrier 3.395 at the Gate G1 of Q2 on the If Board .5vots on the ocilliscope, freq counter comfermed 3.395. On Gate G2 of Q2 on the If board I have 2.5v from the vfo 5.3 Mhz. The 520 receives great.
I can not get the Q2 tx mixer to work. its been changed resistors R21-24-25 have been changed. C22 C24 changed. Q2 changed twice. T4 I can get it to peek if I inject 8.695 at the Drain of Q2 but T3 will not show a change. I tried different values at C22..
When I inject 8.695 at the Drain of Q2 I can get the Radio to tx no problem..
What am I missing ? to get Q2 to mix and give me 8.695 out ?
Perry wa8thk

10349. Re: [TS-520_820_530_830] Mods Done

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-18 23:32:27 UTC
From: John Harp
Topic: 10255 Message: 10349

well that's why I'm watching. I'm loking at it for the possibility of how it will perform with my VHF transverter. So far I haven't heard enough positive to say yes. I am giving it the consideration of the doubt at this point. It works well enough, but is it worth the effort and financial consideration. I got alot riding here right now.

Chris HEmbree <w7cth@...> wrote: I was told the audio was good!!
Chris..

John Harp <ka3dpw@yahoo.com> wrote: Well how is it on the air. Performance is what I'm watching this for.

w7cth <w7cth@...> wrote: I would like to report with the help of this group. I have all the mods done that I am going to do for now.C106 mic audio, report is good
with a Heil GM-5. New tubes the output went from 80W to 100W. With the
dioeds and 100 onm on the IF board PD mod. can't tell all that much
because the radio is new to me anyway.Deoxit all the controls and
major cleaning inside and out.The radio looks like it is off the show
room floor.

Thanks Guys
Chris W7CTH

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10350. Re: [TS-520_820_530_830] Re: product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 00:23:26 UTC
From: Troy, W6HV
Topic: 10345 Message: 10350

Max,
I will certainly recheck. I think something as you suggest must have happened.
Troy
----- Original Message -----
From: max_ve3tmt<mailto:max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, October 18, 2006 4:54 PM
Subject: [TS-520_820_530_830] Re: product detector mod goof

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>,
"w6hv" <w6hv@...> wrote:
>
>
> I just changed out the four diodes in the product detector, added the
> 100 ohm resistor, and also changed C-106 on the IF board. Turned on the
> rig and no audio! There is voltage across the resistor as viewed on a
> 'scope. However, the meter pegs full right and I hear the relay on the
> AF/AV board engage. I checked and found no crimped wires, pulled
> connectors or bridged solder joints. So, don't know what this old man
> did wrong, but any suggestions would be appreciated before I have to go
> through the entire rig.
>
> Troy, W6HV

Troy,

First thing I would do is go back through all the connectors, making
sure they are plugged into the proper mating connector. I write the
connector number on the molex end as I remove them. Check for any you
may have missed when you plugged them back in. I had no signal once
and saw I forgot to plug the small coax cable back in at the rear. Did
you notice any loose board side connectors when you removed the
cables? I found quite a few on my IF board and a couple even came off
with the wire. I made a point to resolder all the pins back on the
board. I do this whenever I remove a board. Check to make sure all the
diodes were put in the proper way. Make sure your RF gain isn't all
the way down. I'm sure you checked all my suggestions but it's good to
double check.

Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

10351. Re: [TS-520_820_530_830] Re: product detector mod goof-follow-up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 01:10:43 UTC
From: Troy, W6HV
Topic: 10351 Message: 10351

Found that the 100 ohm resistor was causing the problem. It measured correct on the Fluke and I double-checked the placement But, guess I better sleep on this one.
Troy
----- Original Message -----
From: max_ve3tmt<mailto:max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, October 18, 2006 4:54 PM
Subject: [TS-520_820_530_830] Re: product detector mod goof

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>, "w6hv" <w6hv@...> wrote:
>
>
> I just changed out the four diodes in the product detector, added the
> 100 ohm resistor, and also changed C-106 on the IF board. Turned on the
> rig and no audio! There is voltage across the resistor as viewed on a
> 'scope. However, the meter pegs full right and I hear the relay on the
> AF/AV board engage. I checked and found no crimped wires, pulled
> connectors or bridged solder joints. So, don't know what this old man
> did wrong, but any suggestions would be appreciated before I have to go
> through the entire rig.
>
> Troy, W6HV

Troy,

First thing I would do is go back through all the connectors, making sure they are plugged into the proper mating connector. I write the connector number on the molex end as I remove them. Check for any you may have missed when you plugged them back in. I had no signal once and saw I forgot to plug the small coax cable back in at the rear. Did you notice any loose board side connectors when you removed the cables? I found quite a few on my IF board and a couple even came off with the wire. I made a point to resolder all the pins back on the board. I do this whenever I remove a board. Check to make sure all the diodes were put in the proper way. Make sure your RF gain isn't all the way down. I'm sure you checked all my suggestions but it's good to double check.

Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

10352. 3.0 Khz wide SSB filter for sale on qth.com

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 01:47:34 UTC
From: max_ve3tmt
Topic: 10352 Message: 10352

Just to let you guys know ad # 558669.

Max VE3TMT

10353. Re: product detector mod goof-follow-up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 01:52:48 UTC
From: max_ve3tmt
Topic: 10351 Message: 10353

--- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@...> wrote:
>
> Found that the 100 ohm resistor was causing the problem. It measured correct on the Fluke and I double-checked the placement But, guess I better sleep on this one.
> Troy

Just glad to hear you got it working Troy.

73,
Max VE3TMT

10354. Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 02:05:32 UTC
From: max_ve3tmt
Topic: 10354 Message: 10354

http://home.comcast.net/~esprepair/ts830mods.htm

I see on this site there is a mod to unlock the IF shift on the 830. I curious about the pros or cons concerning this mod. VR2 on the PLL board is used to set the carrier insertion point, basically the TX side of the IF shift. I'm wondering if this mod unlocks the IF SHIFT to allow you to vary the insertion point from the front panel IF SHIFT control. If anyone cares to examine the schematic and offer their thoughts. I am curious about the purpose of D55.

Max VE3TMT

10355. Re: [TS-520_820_530_830] Re: product detector mod goof-follow-up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 02:07:16 UTC
From: Ruben Echevarria
Topic: 10351 Message: 10355

Check and make sure your switch is down and not in the "SEND" position.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: "Troy, W6HV" <w6hv@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 9:10:43 PM
Subject: Re: [TS-520_820_530_830] Re: product detector mod goof-follow-up

Found that the 100 ohm resistor was causing the problem. It measured correct on the Fluke
and I double-checked the placement But, guess I better sleep on this one.
Troy
----- Original Message -----
From: max_ve3tmt<mailto:max_ve3tmt@yahoo. ca>
To: TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_820_530_ 830@yahoogroups. com>
Sent: Wednesday, October 18, 2006 4:54 PM
Subject: [TS-520_820_ 530_830] Re: product detector mod goof

--- In TS-520_820_530_ 830@yahoogroups. com<mailto:TS-520_820_530_ 830@yahoogroups. com>,
"w6hv" <w6hv@...> wrote:
>
>
> I just changed out the four diodes in the product detector, added the
> 100 ohm resistor, and also changed C-106 on the IF board. Turned on the
> rig and no audio! There is voltage across the resistor as viewed on a
> 'scope. However, the meter pegs full right and I hear the relay on the
> AF/AV board engage. I checked and found no crimped wires, pulled
> connectors or bridged solder joints. So, don't know what this old man
> did wrong, but any suggestions would be appreciated before I have to go
> through the entire rig.
>
> Troy, W6HV

Troy,

First thing I would do is go back through all the connectors, making
sure they are plugged into the proper mating connector. I write the
connector number on the molex end as I remove them. Check for any you
may have missed when you plugged them back in. I had no signal once
and saw I forgot to plug the small coax cable back in at the rear. Did
you notice any loose board side connectors when you removed the
cables? I found quite a few on my IF board and a couple even came off
with the wire. I made a point to resolder all the pins back on the

board. I do this whenever I remove a board. Check to make sure all the diodes were put in the proper way. Make sure your RF gain isn't all the way down. I'm sure you checked all my suggestions but it's good to double check.

Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10356. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 03:22:32 UTC
From: digs4ruff
Topic: 10247 Message: 10356

David
TVM
Finally got to ordering the HV caps today and due to Digikeys minimum order requirement will be replacing all electrolytics in the power supply.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@...> wrote:
>
> The caps came from DigiKey. Part No. P7448-ND. If they don't have them Part No P7449-ND is the same thing. I got this informtion from a person on this list, however, I have lost his original email. After the caps arrived I deleted the original email. These replacements are 100uf 500 volt, however, they are physically smaller than the ones that are in there now. You will have to devise a way to take up the room for the chassis clamp to hold them. I used a piece of pipe insulation to put around them.
> Dave
>
> [Non-text portions of this message have been removed]
>

10357. Re: [TS-520_820_530_830] new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 04:22:13 UTC
From: Chris HEmbree
Topic: 10332 Message: 10357

Welcome to the group.
I just picked up a 830s about 3 weeks ago and did a few mods from the group. The radio works great and is back on the air.
Just dig in and learn and have fun..
Chris W7CTH

John Harp <ka3dpw@...> wrote: Greetings and welcome to the group. Wish you well with the 520. What's it's wattage out put been like. Tell us that first.
As for the keying there are two basic types of keying. Your 520's manual tells you which type of keying you will need to use. Most keyers are capable of both types of keying. Most tube gear goes with the one type of keying and solid state generally goes with the other.
As the messages come to greet you someone will probably have an answer for you. I own TS-830 and my name is John.

cpitre_01 <cpitre_01@...> wrote:
Hello all,

I am new to the group and I am lucky enough to own a ts 520. I actually have almost a complete station, that includes the 520, the at200 tuner, the sp520 speaker, the vfo 520, the TS 520, mc50 mic and a pc1a phone patch. I purchased it off another Ham who was downsizing. Any way I have a couple of questions.

Could I connect a keyer to this radio so I can use an iambic paddle?
If so is there a specific model I should get.

And when should I think about replacing the tubes, I don't know if the tubes in the radio are original.

Thanks all
Chris
VE3CTP

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10358. Re: [TS-520_820_530_830] Re: product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 04:30:15 UTC
From: Chris HEmbree
Topic: 10345 Message: 10358

I did the same 2 mods with no problem. Adj 600mv p-p on a scope,USB,LSB.
Are the diodes in the right way?As small as they are it would not be hard to get one in backwards.
Chris..

"Troy, W6HV" <w6hv@...> wrote: Max,
I will certainly recheck. I think something as you suggest must have happened.
Troy
----- Original Message -----
From: max_ve3tmt<mailto:max_ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, October 18, 2006 4:54 PM
Subject: [TS-520_820_530_830] Re: product detector mod goof

--- In TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>, "w6hv" <w6hv@...> wrote:
>
>
> I just changed out the four diodes in the product detector, added the
> 100 ohm resistor, and also changed C-106 on the IF board. Turned on the
> rig and no audio! There is voltage across the resistor as viewed on a
> 'scope. However, the meter pegs full right and I hear the relay on the
> AF/AV board engage. I checked and found no crimped wires, pulled
> connectors or bridged solder joints. So, don't know what this old man
> did wrong, but any suggestions would be appreciated before I have to go
> through the entire rig.
>
> Troy, W6HV

Troy,

First thing I would do is go back through all the connectors, making sure they are plugged into the proper mating connector. I write the connector number on the molex end as I remove them. Check for any you may have missed when you plugged them back in. I had no signal once and saw I forgot to plug the small coax cable back in at the rear. Did you notice any loose board side connectors when you removed the cables? I found quite a few on my IF board and a couple even came off with the wire. I made a point to resolder all the pins back on the board. I do this whenever I remove a board. Check to make sure all the diodes were put in the proper way. Make sure your RF gain isn't all the way down. I'm sure you checked all my suggestions but it's good to double check.

Max

Yahoo! Groups Links

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10359. Re: [TS-520_820_530_830] new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 04:29:37 UTC
From: Ruben Echevarria
Topic: 10332 Message: 10359

I use an MFJ492 keyer with my TS830S ......

Ruben Echevarria
ka2hhb_2000@yahoo.com
10-10 33308

----- Original Message ----
From: Chris HEmbree <w7cth@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 12:22:13 AM
Subject: Re: [TS-520_820_530_830] new to group

Welcome to the group.
I just picked up a 830s about 3 weeks ago and did a few mods from the group. The radio works great and is back on the air.
Just dig in and learn and have fun..
Chris W7CTH

John Harp <ka3dpw@yahoo. com> wrote: Greetings and welcome to the group. Wish you well with the 520. What's it's wattage out put been like. Tell us that first.
As for the keying there are two basic types of keying. Your 520's manual tells you which type of keying you will need to use. Most keyers are capable of both types of keying. Most tube gear goes with the one type of keying and solid state generally goes with the other.
As the messages come to greet you someone will probably have an answer for you. I own TS-830 and my name is John.

cpitre_01 <cpitre_01@yahoo. com> wrote:
Hello all,

I am new to the group and I am lucky enough to own a ts 520. I actually have almost a complete station, that includes the 520, the at200 tuner, the sp520 speaker, the vfo 520, the TS 520, mc50 mic and a pc1a phone patch. I purchased it off another Ham who was downsizing. Any way I have a couple of questions.

Could I connect a keyer to this radio so I can use an iambic paddle?
If so is there a specific model I should get.

And when should I think about replacing the tubes, I don't know if the tubes in the radio are original.

Thanks all
Chris
VE3CTP

------------ --------- --------- ---
All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10360. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 04:32:09 UTC
From: Ruben Echevarria
Topic: 10247 Message: 10360

I have TS510 Service and Operating Manuals in .pdf if anyone needs them KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: digs4ruff <digs4ruff@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 11:22:32 PM
Subject: [TS-520_820_530_830] Re: TS-510 Restoration

David
TVM
Finally got to ordering the HV caps today and due to Digikeys minimum
order requirement will be replacing all electrolytics in the power
supply.
regards
Barry

--- In TS-520_820_530_ 830@yahoogroups. com, "David Rust" <dlrust@...>
wrote:
>
> The caps came from DigiKey. Part No. P7448-ND. If they don't have
them Part No P7449-ND is the same thing. I got this informtion from a
person on this list, however, I have lost his original email. After
the caps arrived I deleted the original email. These replacements
are 100uf 500 volt, however, they are physically smaller than the ones
that are in there now. You will have to devise a way to take up the
room for the chassis clamp to hold them. I used a piece of pipe
insulation to put around them.
> Dave
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10361. Re: [TS-520_820_530_830] product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 08:19:51 UTC
From: n9wb
Topic: 10345 Message: 10361

I have to ask this, are you sure that you do not have the send switch on ? Walt
----- Original Message -----
From: w6hv
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 5:34 PM
Subject: [TS-520_820_530_830] product detector mod goof

I just changed out the four diodes in the product detector, added the
100 ohm resistor, and also changed C-106 on the IF board. Turned on the
rig and no audio! There is voltage across the resistor as viewed on a
'scope. However, the meter pegs full right and I hear the relay on the
AF/AV board engage. I checked and found no crimped wires, pulled
connectors or bridged solder joints. So, don't know what this old man
did wrong, but any suggestions would be appreciated before I have to go
through the entire rig.

Troy, W6HV

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

10362. Re: [TS-520_820_530_830] product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 08:49:31 UTC
From: n9wb
Topic: 10345 Message: 10362

I usually have a large number of messages when I check my e-mail and answer them in chronological order. It seems that Ruben and I had the same idea. However you found the problem to be associated with the 100 ohm resistor.

The 100 ohm resistor connects between the junction of the two 470 ohm resistors, R-75 and R-76 and ground. I suspect that you had one or more ends of it connected to the wrong place. I particularly suspect that the ground end was not on a ground point.

Vy 73, Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 3:19 AM
Subject: Re: [TS-520_820_530_830] product detector mod goof

I have to ask this, are you sure that you do not have the send switch on ? Walt
----- Original Message -----
From: w6hv
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 5:34 PM
Subject: [TS-520_820_530_830] product detector mod goof

I just changed out the four diodes in the product detector, added the
100 ohm resistor, and also changed C-106 on the IF board. Turned on the
rig and no audio! There is voltage across the resistor as viewed on a
'scope. However, the meter pegs full right and I hear the relay on the
AF/AV board engage. I checked and found no crimped wires, pulled
connectors or bridged solder joints. So, don't know what this old man
did wrong, but any suggestions would be appreciated before I have to go
through the entire rig.

Troy, W6HV

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

10363. Re: [TS-520_820_530_830] Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 10:00:53 UTC
From: n9wb
Topic: 10354 Message: 10363

In my opinion this is Hype city.

If you really want to do this, we can figure it out and save $180.00.

I absolutely do NOT recommend the power mod.

I will look into D-55

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 9:05 PM
Subject: [TS-520_820_530_830] Internet site concerning unlocked IF Shift

http://home.comcast.net/~esprepair/ts830mods.htm

I see on this site there is a mod to unlock the IF shift on the 830. I
curious about the pros or cons concerning this mod. VR2 on the PLL
board is used to set the carrier insertion point, basically the TX
side of the IF shift. I'm wondering if this mod unlocks the IF SHIFT
to allow you to vary the insertion point from the front panel IF SHIFT
control. If anyone cares to examine the schematic and offer their
thoughts. I am curious about the purpose of D55.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

10364. L19 L20 in TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 11:26:36 UTC
From: n9wb
Topic: 10364 Message: 10364

Once again, I would like to protest the de-tuning of L-19 and L-20 in the TS-830. This is a band pass filter and should be tuned for maximum or left as is if it is at the factory setting. De-tuning will corrupt it's filter characteristics. It will allow unwanted artifacts from the mixing process to pass through.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

10365. Re: [TS-520_820_530_830] Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 11:15:30 UTC
From: n9wb
Topic: 10354 Message: 10365

Max:

First, I absolutely do not recommend this mod. I would never do it to my TS-830. I believe that when a rig suffers too much modification, it eventually turns into junk. A lot of this is getting too much like the "butcher shop" mods done to CB radios.

However, with that disclaimer, I will discuss it with you.

The top side of VR 2 is supplied power during transmit. This forward biases D-56 and allows VR 2 to control D-57 that is a varactor diode.

VR 1-1 part of the IF shift control and is supplied power on receive. This forward biases D-55 so the IF shift network can control D-57. I believe that the power on VR 1-1 comes from RLR on the AF board and is 9V on receive only.

To do this, you would have to disconnect D-56 to disable VR-2 and supply 9v power on TX and RX to VR 1-1. If there are more than 1 wire going to the top (3) of VR-1, these will have to be connected together but removed from VR 1-1. Then the 9V applied to VR 1-1(3).

WARNING: this just my attempt to answer Max's question. I have not tried this, nor do I intend to. This is not a modification for the faint of heart.

I note that VR 1-1 is part of a network that also affects the BPT, so if you attempt this, do it in such a way that it can be restored.
I do not have a really good diagram so I cannot guarantee accuracy of my statements.
If you try this, and things go wrong, we may not be able to easily bail you out!

Vy 73, Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 5:00 AM
Subject: Re: [TS-520_820_530_830] Internet site concerning unlocked IF Shift

In my opinion this is Hype city.

If you really want to do this, we can figure it out and save $180.00.

I absolutely do NOT recommend the High POWER mod.

I will look into D-55

Vy 73, Walt N9WB

----- Original Message -----
From: max_ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 9:05 PM
Subject: [TS-520_820_530_830] Internet site concerning unlocked IF Shift

http://home.comcast.net/~esprepair/ts830mods.htm

I see on this site there is a mod to unlock the IF shift on the 830. I curious about the pros or cons concerning this mod. VR2 on the PLL board is used to set the carrier insertion point, basically the TX side of the IF shift. I'm wondering if this mod unlocks the IF SHIFT to allow you to vary the insertion point from the front panel IF SHIFT control. If anyone cares to examine the schematic and offer their thoughts. I am curious about the purpose of D55.

Max VE3TMT

10366. Monr about L19 L20 in TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 11:57:27 UTC
From: n9wb
Topic: 10366 Message: 10366

The 8.375 oscillator is applied to mixer Q-16. The carrier oscillator signal from the PLL board is applied to the other gate of Q-16. The mix of these two signals is applied to L-19 and L-20. to buffer amplifier Q 18 and balanced mixer, Q2 and Q3. If L 19 and L-20 is not tuned properly, signals directly from the 8.375 and the carrier oscillator will pass through and create images in the receiver and spurious emissions in the form of artifacts of the mixing process on transmit.

It seems to me that it is important that this filter be tuned to be filtering properly.

Vy 73, Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 6:26 AM
Subject: [TS-520_820_530_830] L19 L20 in TS-830

Once again, I would like to protest the de-tuning of L-19 and L-20 in the TS-830. This is a band pass filter and should be tuned for maximum or left as is if it is at the factory setting. De-tuning will corrupt it's filter characteristics. It will allow unwanted artifacts from the mixing process to pass through.

Vy 73, Walt N9WB

10367. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 10:56:08 UTC
From: max_ve3tmt
Topic: 10354 Message: 10367

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

If you try this, and things go wrong, we may not be able to easily bail you out!

I like that part Walt. No at this point I have no intention of doing any of the mods on that site. Doing the direct balanced modulator feed as I have solves the TX audio mod. I have swapped the caps in the audio amp to give more lows and I have no intention of doing the power mod. That is just plain silly and I agree that these type of mods are catering to the CB crowd, especially when they make references to how "loud" you will be.

That aside I was just a little curious about the IF SHIFT mod. I had VR2 wired to the TONE pot as I mentioned a while back, but I have since reversed that mod to keep the radio stock. Having a variable TX response might come in handy under certain conditions. I appreciate the explanantion.

73,
Max VE3TMT

10368. Re: [TS-520_820_530_830] TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:26:37 UTC
From: n9wb
Topic: 6634 Message: 10368

Did you check the voltage on D-11? What is the drain voltage of Q2 ?
Vy 73, Walt N9WB

----- Original Message -----
From: PERRY
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 7:30 PM
Subject: [TS-520_820_530_830] TS 520

Took a fews days off, then back to the NO TX on the TS520
I have Carrier 3.395 at the Gate G1 of Q2 on the If Board .5vots on the ocilliscope, freq counter comfermed 3.395. On Gate G2 of Q2 on the If board I have 2.5v from the vfo 5.3 Mhz. The 520 receives great.
I can not get the Q2 tx mixer to work. its been changed resistors R21-24-25 have been changed. C22 C24 changed. Q2 changed twice. T4 I can get it to peek if I inject 8.695 at the Drain of Q2 but T3 will not show a change. I tried different values at C22..
When I inject 8.695 at the Drain of Q2 I can get the Radio to tx no problem..
What am I missing ? to get Q2 to mix and give me 8.695 out ?
Perry wa8thk

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

10369. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:00:42 UTC
From: Rich Jones
Topic: 9340 Message: 10369

I am blowing fuses in my TS539. I am using 7am 249 v fast blow. When I am operating either CW or SSB they will blow after about 5 minutes into a QSO. I am using a dipole, flat on 3050 for CW and a vertical flat on 28325 for local nightly ground plane SSB QSO. On sideband my friends say they can hear clicking just before the fuse goes. Lucky me, I have a dozen fuses! Any suggestions before I tear into rig? thank you, Rich

---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10370. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:00:35 UTC
From: Rich Jones
Topic: 9340 Message: 10370

I am blowing fuses in my TS539. I am using 7am 249 v fast blow. When I am operating either CW or SSB they will blow after about 5 minutes into a QSO. I am using a dipole, flat on 3050 for CW and a vertical flat on 28325 for local nightly ground plane SSB QSO. On sideband my friends say they can hear clicking just before the fuse goes. Lucky me, I have a dozen fuses! Any suggestions before I tear into rig? thank you, Rich

---
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10371. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:09:57 UTC
From: David Rust
Topic: 9340 Message: 10371

Lucky me, I have a dozen fuses..

Rich, Not to sound like a smart a.. you may not have a dozen tries left in your power transformer. I feel like you are looking over the edge if you keep blowing fuses. You must find out what is going wrong asap. I would first suspect finals, but there are lots of other possibilities you should rule out one at a time.

But, be careful, a power transformer would become a major problem.
73 Dave W0DLR

[Non-text portions of this message have been removed]

10372. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:26:40 UTC
From: digs4ruff
Topic: 10247 Message: 10372

Ruben
Might I suggest they be posted in the Files/Manuals section.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> I have TS510 Service and Operating Manuals in .pdf if anyone needs
them KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
>
>
> ----- Original Message ----
> From: digs4ruff <digs4ruff@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 18, 2006 11:22:32 PM
> Subject: [TS-520_820_530_830] Re: TS-510 Restoration
>
> David
> TVM
> Finally got to ordering the HV caps today and due to Digikeys
minimum
> order requirement will be replacing all electrolytics in the power
> supply.
> regards
> Barry
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "David Rust"
<dlrust@>
> wrote:
> >
> > The caps came from DigiKey. Part No. P7448-ND. If they don't
have
> them Part No P7449-ND is the same thing. I got this informtion
from a
> person on this list, however, I have lost his original email.
After
> the caps arrived I deleted the original email. These replacements
> are 100uf 500 volt, however, they are physically smaller than the
ones

> that are in there now. You will have to devise a way to take up
the
> room for the chassis clamp to hold them. I used a piece of pipe
> insulation to put around them.
> > Dave
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

10373. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:26:24 UTC
From: Rich Jones
Topic: 9340 Message: 10373

Dave: I have not bought 6146 finals since I last needed them for a SB101. I see RF Parts has 6146W-MP. Is that an acceptable substitute for the 6146-B ?

David Rust <dlrust@...> wrote: Lucky me, I have a dozen fuses..

Rich, Not to sound like a smart a.. you may not have a dozen tries left in your power transformer. I feel like you are looking over the edge if you keep blowing fuses. You must find out what is going wrong asap. I would first suspect finals, but there are lots of other possibilities you should rule out one at a time.

But, be careful, a power transformer would become a major problem.
73 Dave W0DLR

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10374. TS-820S Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:39:02 UTC
From: digs4ruff
Topic: 10374 Message: 10374

Good morning

I note that the relay in the TS-820S is a 12V - 300 ohm relay.
Can you use a 12V - 150 ohm relay in it's place, maybe with the
addition of a series resistor?
thanks
Barry

10375. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 12:15:04 UTC
From: Rich Jones
Topic: 9340 Message: 10375

Thanks Dave. I agree about the finals. I changed out the driver but didn't help. I don't have an extra set of finals so will purchse some. These are origional. Rich

David Rust <dlrust@...> wrote: Lucky me, I have a dozen fuses..

Rich, Not to sound like a smart a.. you may not have a dozen tries left in your power transformer. I feel like you are looking over the edge if you keep blowing fuses. You must find out what is going wrong asap. I would first suspect finals, but there are lots of other possibilities you should rule out one at a time.

But, be careful, a power transformer would become a major problem.
73 Dave W0DLR

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10376. Any mods for the 830s side tone?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 13:34:28 UTC
From: Darwin, Keith
Topic: 10376 Message: 10376

After using the 830s for a while on CW, I switched back to the K2.
First thing I noticed was how much nicer the K2's sidetone is. 830s has
a rather nasty sounding side tone. It does not sound like a pure sine
wave and also plays dots shorter than they really are which is not good
for this straight key user.

Are there any recommended mods to improve the sidetone?

- Keith KD1E -

[Non-text portions of this message have been removed]

10377. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 13:55:22 UTC
From: Ellen R
Topic: 10354 Message: 10377

Just out of curiousity - when you mention unlocking the IF shift, I assume you mean completely disengaging it from the receive circuit? Why do it? To eliminate any insertion loss? Admittedly, the IF shift isn't always useful, but there are timew where I think it comes in pretty handy.

Or, do you unlock it, to get a greater IF shift capability (sort of like unlocking a PLL circuit, which is a bad thing). That sounds like a can or worms I wouldn't want to deal with.

73,
Ellen - AF9J

P.S. - Walt, you going do the Schottky mod? If you need somebody to compare it with, as one who is also a TS-820 & 820S afficionado, I'll do it at the same time with my baby, as you're doing it with your housecat special. If you want, we could even pool our purchases together for the diodes.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
>
> First, I absolutely do not recommend this mod. I would never do it to my
> TS-830. I believe that when a rig suffers too much modification, it
> eventually turns into junk. A lot of this is getting too much like the
> "butcher shop" mods done to CB radios.
>
> However, with that disclaimer, I will discuss it with you.
>
> The top side of VR 2 is supplied power during transmit. This forward biases
> D-56 and allows VR 2 to control D-57 that is a varactor diode.
>
> VR 1-1 part of the IF shift control and is supplied power on receive. This
> forward biases D-55 so the IF shift network can control D-57. I believe that
> the power on VR 1-1 comes from RLR on the AF board and is 9V on receive
> only.
>
> To do this, you would have to disconnect D-56 to disable VR-2 and supply 9v

> power on TX and RX to VR 1-1. If there are more than 1 wire going
to the
> top (3) of VR-1, these will have to be connected together but
removed from
> VR 1-1. Then the 9V applied to VR 1-1(3).
>
> WARNING: this just my attempt to answer Max's question. I have not
tried
> this, nor do I intend to. This is not a modification for the faint
of heart.
>
> I note that VR 1-1 is part of a network that also affects the BPT,
so if you
> attempt this, do it in such a way that it can be restored.
> I do not have a really good diagram so I cannot guarantee accuracy
of my
> statements.
> If you try this, and things go wrong, we may not be able to easily
bail you
> out!
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, October 19, 2006 5:00 AM
> Subject: Re: [TS-520_820_530_830] Internet site concerning unlocked
IF Shift
>
>
> In my opinion this is Hype city.
>
> If you really want to do this, we can figure it out and save
$180.00.
>
> I absolutely do NOT recommend the High POWER mod.
>
> I will look into D-55
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 18, 2006 9:05 PM
> Subject: [TS-520_820_530_830] Internet site concerning unlocked IF
Shift
>

> http://home.comcast.net/~esprepair/ts830mods.htm
>
> I see on this site there is a mod to unlock the IF shift on the
830. I
> curious about the pros or cons concerning this mod. VR2 on the PLL
> board is used to set the carrier insertion point, basically the TX
> side of the IF shift. I'm wondering if this mod unlocks the IF SHIFT
> to allow you to vary the insertion point from the front panel IF
SHIFT
> control. If anyone cares to examine the schematic and offer their
> thoughts. I am curious about the purpose of D55.
>
> Max VE3TMT
>

10378. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 14:36:08 UTC
From: max_ve3tmt
Topic: 10354 Message: 10378

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Just out of curiousity - when you mention unlocking the IF shift, I
> assume you mean completely disengaging it from the receive circuit?

Hi Ellen,

What the mod does is allow the IF shift to function in transmit. All it would be doing is allow you to vary the carrier insertion point. As an example, lets say your rig is capable of transmitting an SSB signal from 300-2700 Hz. This is a 2400 Hz bandwidth. By varying the IF shift on transmit, you can adjust it for say a 500-2900 bandwidth, giving you more highs to help you bust through the pileups, or 100-2500 Hz to give you more lows for a nice ragchewing sound. Of course the radio would have to have the wider filters in it as mine does. 2400 Hz is not really wide enough to benefit from this mod. I can transmit 3000 Hz wide so I could use 100-2900 for the low end or 500-3500 for the high end. Of course if the guy on the other end doesn't have the filters for receiving that wide it is a lost issue. I just like to know what the capabilities of the radio are.

73,
Max

10379. Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 15:56:26 UTC
From: Rich Jones
Topic: 9340 Message: 10379

Walt: Can this also apply to a 530. I am talking about the resisters you mention below ont he final board? Thanks, Rich

n9wb <n9wb@...> wrote:

I am concerned, however. You may have shorted tubes. You are cruising for a needlessly blown transformer. Look up the article "save your transformer" and build a light bulb tester. Please take my advice on this and do not operate the rig any more until you have it in line. Transformers are very expensive and very hard to get.

Vy 73, Walt N9WB

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 12:08 AM
Subject: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.
>

Thanks Walt,

Well this morning I think that it gave it up. :) Got up this morning and turned on the radio and was just listening on 80 meters and all or a sudden there was a series of loud 'pops'. No smoke or fried smell. I shut it off. Looking inside I found that the cathode resistors were both open. Checked R5 and R6 on the final board and one of them ohmed out at 125 ohms. Replaced both of them and the cathode resistors R2 and R3. While I was in there replacing those I found a ceramic cap - one of the .047uf ones and it had flamed and was charred on the top - may be where the smoke came from??

While I'm in here I'm changing out the three resistors R5, R6 and R7 on the high voltage board.

Do you know what the value of C3 is? Looks like .047uf - do you know what voltage?

Thanks for all your help.

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10380. Re: [TS-520_820_530_830] Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:03:20 UTC
From: Max Harelik
Topic: 10354 Message: 10380

" What the mod does is allow the IF shift to function in transmit." <snip>

Max, thanks for your explanation of the effect of the mod. I have no intention of CB-ing around with my radio, but it's very useful to have a better understanding of its various functions.

73,
Max, K5OVW

10381. Re: TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:12:10 UTC
From: Ellen R
Topic: 9340 Message: 10381

Yes it is. The 6146W is basically the militarized version of the 6146B. There are minor idfferences between the 6146B and the 6146W, nut the 6146W is a suitable substitute for the 6146B. Almost everybody who buys replacements for the 6146B tubes, buys 6146Ws, due to the fact that 6146Bs are gbecoming hard to find, and rather expensive.

An interesting note - if you buy the JAN/Phillips 6146Ws that RF Parts sells, they are basically indentical to a 6146B. They cost a bit more than the average 6146W, but in my opinion, they're worth it. I put a set of them in my TS-820 this last April. They neutralized very easily, and I get 125-130W out on all bands.

A word of warning to you - AVOID THE CHINESE 6146B AND 6146W TUBES LIKE THE PLAGUE! I made the mistake of buying a set of Chinese 6146Ws from AES (I only live 10 miles from the Milwaukee store, so I figured I would save on the waiting, and postage I'd have to pay for a set I ordered elsewhere). They were branded as Penta (the US vendor of the tube). The Chinese tubes may work will with rigs that run lower plate voltages than the 900V the Kenwood hybrids run, but they sure didn't work well with my TS-820. As some of the group members will remember me mentioning, as soon as I turned on the cathodes, the tubes flashed/arced over between the cathodes and the plates. The end result - I got the opportunity to open up my 820, and replace trashed High Voltage Board resistors, and resitors on the Finals Board that were iffy from this little experience. Not aonly that, but now I'm stuck with a set of tubes I paid $54 for. The JAN/Phillips 6146Ws I bought from RF Parts, cost only $4 or $5 more, and are infinitely better. Ugh! You get waht you pay for. Other members of this group have had similar experiences with Chinese 6146W tubes.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Dave: I have not bought 6146 finals since I last needed them for a SB101. I see RF Parts has 6146W-MP. Is that an acceptable substitute for the 6146-B ?
>
> David Rust <dlrust@...> wrote: Lucky me, I have a dozen fuses..
>
> Rich, Not to sound like a smart a.. you may not have a dozen tries

left in your power transformer. I feel like you are looking over the edge if you keep blowing fuses. You must find out what is going wrong asap. I would first suspect finals, but there are lots of other possibilities you should rule out one at a time.
>
> But, be careful, a power transformer would become a major problem.
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

10382. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:19:51 UTC
From: Ellen R
Topic: 10354 Message: 10382

Thanks for the info Max. :) BTW, how's the TS-510 coming along?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Just out of curiousity - when you mention unlocking the IF shift,
I
> > assume you mean completely disengaging it from the receive
circuit?
>
> Hi Ellen,
>
> What the mod does is allow the IF shift to function in transmit. All
> it would be doing is allow you to vary the carrier insertion point.
As
> an example, lets say your rig is capable of transmitting an SSB
signal
> from 300-2700 Hz. This is a 2400 Hz bandwidth. By varying the IF
shift
> on transmit, you can adjust it for say a 500-2900 bandwidth, giving
> you more highs to help you bust through the pileups, or 100-2500 Hz
to
> give you more lows for a nice ragchewing sound. Of course the radio
> would have to have the wider filters in it as mine does. 2400 Hz is
> not really wide enough to benefit from this mod. I can transmit 3000
> Hz wide so I could use 100-2900 for the low end or 500-3500 for the
> high end. Of course if the guy on the other end doesn't have the
> filters for receiving that wide it is a lost issue. I just like to
> know what the capabilities of the radio are.
>
> 73,
> Max
>

10383. Re: [TS-520_820_530_830] Re: TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:28:34 UTC
From: Rich Jones
Topic: 9340 Message: 10383

Thank you so much for the timely reply. I called Purchase Radio in Ann Arbor Michigan and they have Chinese 6146-B tubes for $29.95 ea. I was going to get them, like you said, save the time and postage. I will order the RF parts ones for the same price and pay the postage and bid the time. Regarding my present tubes. I can get high wattage from them, do you think I should try, re-neutralizing them? I almost forgot. Purchase radio has been around for over 80 years. They have one set of RCA 6146 (no A or B). They want a little more for these, but I am doubtful they are a matched pair. What do you think?

Ellen R <ellenjoanne2003@...> wrote: Yes it is. The 6146W is basically the militarized version of the
6146B. There are minor idfferences between the 6146B and the 6146W,
nut the 6146W is a suitable substitute for the 6146B. Almost
everybody who buys replacements for the 6146B tubes, buys 6146Ws, due
to the fact that 6146Bs are gbecoming hard to find, and rather
expensive.

An interesting note - if you buy the JAN/Phillips 6146Ws that RF
Parts sells, they are basically indentical to a 6146B. They cost a
bit more than the average 6146W, but in my opinion, they're worth
it. I put a set of them in my TS-820 this last April. They
neutralized very easily, and I get 125-130W out on all bands.

A word of warning to you - AVOID THE CHINESE 6146B AND 6146W TUBES
LIKE THE PLAGUE! I made the mistake of buying a set of Chinese
6146Ws from AES (I only live 10 miles from the Milwaukee store, so I
figured I would save on the waiting, and postage I'd have to pay for
a set I ordered elsewhere). They were branded as Penta (the US
vendor of the tube). The Chinese tubes may work will with rigs that
run lower plate voltages than the 900V the Kenwood hybrids run, but
they sure didn't work well with my TS-820. As some of the group
members will remember me mentioning, as soon as I turned on the
cathodes, the tubes flashed/arced over between the cathodes and the
plates. The end result - I got the opportunity to open up my 820,
and replace trashed High Voltage Board resistors, and resitors on the
Finals Board that were iffy from this little experience. Not aonly
that, but now I'm stuck with a set of tubes I paid $54 for. The
JAN/Phillips 6146Ws I bought from RF Parts, cost only $4 or $5 more,
and are infinitely better. Ugh! You get waht you pay for. Other
members of this group have had similar experiences with Chinese 6146W
tubes.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones
<michjonezee@...> wrote:

>
> Dave: I have not bought 6146 finals since I last needed them for a
SB101. I see RF Parts has 6146W-MP. Is that an acceptable
substitute for the 6146-B ?
>
> David Rust <dlrust@...> wrote: Lucky me, I have a dozen
fuses..
>
> Rich, Not to sound like a smart a.. you may not have a dozen tries
left in your power transformer. I feel like you are looking over the
edge if you keep blowing fuses. You must find out what is going wrong
asap. I would first suspect finals, but there are lots of other
possibilities you should rule out one at a time.
>
> But, be careful, a power transformer would become a major problem.
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---------------------------------
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10384. Re: [TS-520_820_530_830] Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:42:49 UTC
From: N6WK
Topic: 10247 Message: 10384

Ruben,
I'd love to get them to add to my Kenwood Page of Files and Manuals.
73,
Gordon

Ruben Echevarria wrote:

> I have TS510 Service and Operating Manuals in .pdf if anyone needs
> them KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> 10-10 33308
>
> ----- Original Message ----
> From: digs4ruff <digs4ruff@... <mailto:digs4ruff%40yahoo.ca>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Wednesday, October 18, 2006 11:22:32 PM
> Subject: [TS-520_820_530_830] Re: TS-510 Restoration
>
> David
> TVM
> Finally got to ordering the HV caps today and due to Digikeys minimum
> order requirement will be replacing all electrolytics in the power
> supply.
> regards
> Barry
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "David Rust" <dlrust@...>
> wrote:
> >
> > The caps came from DigiKey. Part No. P7448-ND. If they don't have
> them Part No P7449-ND is the same thing. I got this informtion from a
> person on this list, however, I have lost his original email. After
> the caps arrived I deleted the original email. These replacements
> are 100uf 500 volt, however, they are physically smaller than the ones
> that are in there now. You will have to devise a way to take up the
> room for the chassis clamp to hold them. I used a piece of pipe
> insulation to put around them.
> > Dave
> >
> > [Non-text portions of this message have been removed]
> >
>

> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10385. Re: [TS-520_820_530_830] new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:41:16 UTC
From: N6WK
Topic: 10332 Message: 10385

I use an MFJ-495 Keyer with my 830 as it also will work with my TS-2000
and my TS-850 by just changing two jumpers inside.

73,
Gordon

Ruben Echevarria wrote:

> I use an MFJ492 keyer with my TS830S ......
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> 10-10 33308
>
> ----- Original Message ----
> From: Chris HEmbree <w7cth@... <mailto:w7cth%40yahoo.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Thursday, October 19, 2006 12:22:13 AM
> Subject: Re: [TS-520_820_530_830] new to group
>
> Welcome to the group.
> I just picked up a 830s about 3 weeks ago and did a few mods from the
> group. The radio works great and is back on the air.
> Just dig in and learn and have fun..
> Chris W7CTH
>
> John Harp <ka3dpw@yahoo. com> wrote: Greetings and welcome to the
> group. Wish you well with the 520. What's it's wattage out put been
> like. Tell us that first.
> As for the keying there are two basic types of keying. Your 520's
> manual tells you which type of keying you will need to use. Most
> keyers are capable of both types of keying. Most tube gear goes with
> the one type of keying and solid state generally goes with the other.
> As the messages come to greet you someone will probably have an answer
> for you. I own TS-830 and my name is John.
>
> cpitre_01 <cpitre_01@yahoo. com> wrote:
> Hello all,
>
> I am new to the group and I am lucky enough to own a ts 520. I
> actually have almost a complete station, that includes the 520, the
> at200 tuner, the sp520 speaker, the vfo 520, the TS 520, mc50 mic and
> a pc1a phone patch. I purchased it off another Ham who was
> downsizing. Any way I have a couple of questions.
>

> Could I connect a keyer to this radio so I can use an iambic paddle?
> If so is there a specific model I should get.
>
> And when should I think about replacing the tubes, I don't know if the
> tubes in the radio are original.
>
> Thanks all
> Chris
> VE3CTP
>
> ------------ --------- --------- ---
> All-new Yahoo! Mail - Fire up a more powerful email and get things
> done faster.
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
> countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10386. Re: [TS-520_820_530_830] product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:46:28 UTC
From: N6WK
Topic: 10345 Message: 10386

I thought of that also Walt. On mine, I put the resistor on the Circuit side of the IF board from the junction of R75 and R76 over to the outer ground Trace just below TC1.

Gorodn

n9wb wrote:

> I usually have a large number of messages when I check my e-mail and
> answer them in chronological order. It seems that Ruben and I had the
> same idea. However you found the problem to be associated with the 100
> ohm resistor.
>
> The 100 ohm resistor connects between the junction of the two 470 ohm
> resistors, R-75 and R-76 and ground. I suspect that you had one or
> more ends of it connected to the wrong place. I particularly suspect
> that the ground end was not on a ground point.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Thursday, October 19, 2006 3:19 AM
> Subject: Re: [TS-520_820_530_830] product detector mod goof
>
> I have to ask this, are you sure that you do not have the send switch
> on ? Walt
> ----- Original Message -----
> From: w6hv
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Wednesday, October 18, 2006 5:34 PM
> Subject: [TS-520_820_530_830] product detector mod goof
>
> I just changed out the four diodes in the product detector, added the
> 100 ohm resistor, and also changed C-106 on the IF board. Turned on the
> rig and no audio! There is voltage across the resistor as viewed on a
> 'scope. However, the meter pegs full right and I hear the relay on the
> AF/AV board engage. I checked and found no crimped wires, pulled
> connectors or bridged solder joints. So, don't know what this old man
> did wrong, but any suggestions would be appreciated before I have to go
> through the entire rig.
>
> Troy, W6HV

>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06
>
> [Non-text portions of this message have been removed]
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10387. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:51:27 UTC
From: N6WK
Topic: 9340 Message: 10387

Rich, Watch your idle Bias as the rig gets hot after transmitting.
Let us know if it is climbing from the 60ma it should be at.

Gordon

Rich Jones wrote:

> Thanks Dave. I agree about the finals. I changed out the driver but
> didn't help. I don't have an extra set of finals so will purchse some.
> These are origional. Rich
>
> David Rust <dlrust@... <mailto:dlrust%40centurytel.net>>
> wrote: Lucky me, I have a dozen fuses..
>
> Rich, Not to sound like a smart a.. you may not have a dozen tries
> left in your power transformer. I feel like you are looking over the
> edge if you keep blowing fuses. You must find out what is going wrong
> asap. I would first suspect finals, but there are lots of other
> possibilities you should rule out one at a time.
>
> But, be careful, a power transformer would become a major problem.
> 73 Dave W0DLR
>
> [Non-text portions of this message have been removed]
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
> countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10388. Re: [TS-520_820_530_830] product detector mod goof

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 16:34:11 UTC
From: Troy, W6HV
Topic: 10345 Message: 10388

Well, this morning I found you are exactly correct, Walt. The ground connection was fine. However, what I was sure was the junction of R-75 and R-76 --was not. Now the resistor is working as it should. Thanks to all for the help.
73,
Troy, W6HV
----- Original Message -----
From: n9wb<mailto:n9wb@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, October 19, 2006 1:49 AM
Subject: Re: [TS-520_820_530_830] product detector mod goof

I usually have a large number of messages when I check my e-mail and answer them in chronological order. It seems that Ruben and I had the same idea. However you found the problem to be associated with the 100 ohm resistor.

The 100 ohm resistor connects between the junction of the two 470 ohm resistors, R-75 and R-76 and ground. I suspect that you had one or more ends of it connected to the wrong place. I particularly suspect that the ground end was not on a ground point.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

10389. Re: TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 19:08:56 UTC
From: Ellen R
Topic: 9340 Message: 10389

Hi Rich,

Yes you should be able to use the 6146 in place of the 6146B in your Kenwood. It'll just put out less power. BUT, I'd watch things closely for a while after you install the 6146 tubes. This is due to the fact that the 6146 only dissipates about 90W max. input power (so the output rating for a 6146 tube is about 45-50W). The 6146B dissipates 120W max. The Kenwoods run higher voltage than your typical rig that uses 6146Bs, so there is the potential for additional stress on the tubes.

73,
Ellen

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Thank you so much for the timely reply. I called Purchase Radio in Ann Arbor Michigan and they have Chinese 6146-B tubes for $29.95 ea. I was going to get them, like you said, save the time and postage. I will order the RF parts ones for the same price and pay the postage and bid the time. Regarding my present tubes. I can get high wattage from them, do you think I should try, re-neutralizing them? I almost forgot. Purchase radio has been around for over 80 years. They have one set of RCA 6146 (no A or B). They want a little more for these, but I am doubtful they are a matched pair. What do you think?
>
> Ellen R <ellenjoanne2003@...> wrote: Yes it is. The 6146W is basically the militarized version of the
> 6146B. There are minor idfferences between the 6146B and the 6146W,
> nut the 6146W is a suitable substitute for the 6146B. Almost
> everybody who buys replacements for the 6146B tubes, buys 6146Ws, due
> to the fact that 6146Bs are gbecoming hard to find, and rather
> expensive.
>
> An interesting note - if you buy the JAN/Phillips 6146Ws that RF
> Parts sells, they are basically indentical to a 6146B. They cost a
> bit more than the average 6146W, but in my opinion, they're worth
> it. I put a set of them in my TS-820 this last April. They
> neutralized very easily, and I get 125-130W out on all bands.
>
> A word of warning to you - AVOID THE CHINESE 6146B AND 6146W TUBES
> LIKE THE PLAGUE! I made the mistake of buying a set of Chinese
> 6146Ws from AES (I only live 10 miles from the Milwaukee store, so

I
> figured I would save on the waiting, and postage I'd have to pay
for
> a set I ordered elsewhere). They were branded as Penta (the US
> vendor of the tube). The Chinese tubes may work will with rigs that
> run lower plate voltages than the 900V the Kenwood hybrids run, but
> they sure didn't work well with my TS-820. As some of the group
> members will remember me mentioning, as soon as I turned on the
> cathodes, the tubes flashed/arced over between the cathodes and the
> plates. The end result - I got the opportunity to open up my 820,
> and replace trashed High Voltage Board resistors, and resitors on
the
> Finals Board that were iffy from this little experience. Not aonly
> that, but now I'm stuck with a set of tubes I paid $54 for. The
> JAN/Phillips 6146Ws I bought from RF Parts, cost only $4 or $5
more,
> and are infinitely better. Ugh! You get waht you pay for. Other
> members of this group have had similar experiences with Chinese
6146W
> tubes.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Rich Jones
> <michjonezee@> wrote:
> >
> > Dave: I have not bought 6146 finals since I last needed them for
a
> SB101. I see RF Parts has 6146W-MP. Is that an acceptable
> substitute for the 6146-B ?
> >
> > David Rust <dlrust@> wrote: Lucky me, I have a dozen
> fuses..
> >
> > Rich, Not to sound like a smart a.. you may not have a dozen
tries
> left in your power transformer. I feel like you are looking over
the
> edge if you keep blowing fuses. You must find out what is going
wrong
> asap. I would first suspect finals, but there are lots of other
> possibilities you should rule out one at a time.
> >
> > But, be careful, a power transformer would become a major problem.
> > 73 Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
> >

> >
> >
> >
> >
> > ---------------------------------
> > Get your email and more, right on the new Yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Get your own web address for just $1.99/1st yr. We'll help. Yahoo!
Small Business.
>
> [Non-text portions of this message have been removed]
>

10390. Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 19:32:41 UTC
From: KEN (G3SDW)
Topic: 9340 Message: 10390

--- In TS-520_820_530_830@yahoogroups.com, "David S Lund" <kb5drj@...>
wrote:
>
> I was in the middle of tuning and had an IM on the computer. For some
> reason I left the radio in in tune mode and forgot about it. About 10
> minutes later there was a puff of smoke and the main fuse blew. I let
> the thing cool down for awhile and replaced the fuse - so far
> everything seems ok - I can't find anything that looks burned and I'm
> getting full output. Is there anything I should check?
>
> David KB5DRJ
>
Hi david.I hope you have not purchased the Chinese tubes. I fell for
that one a short time ago never again. They flashed over, took out the
cathode resistors and most of all cooked the RF choke in the PA. Had a
job to find another but in the end had to rewind the old one. Its true
what Ellen said the Chinese tubes are ok in rigs with a lower plate
voltage but not a Kenwood 530 which is what i have.
I am keeping my fingers crossed that you have found some good US tubes.
Best 73 from the UK
Ken
G3SDW....

10391. Re: [TS-520_820_530_830] TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 21:49:44 UTC
From: n9wb
Topic: 9340 Message: 10391

RF Part has some 6146 tubes labeled Phillips. This was actually the last production run made by Sylvania. I looked these over at Dayton. They are of superior construction. these are what I recommend.

I fully agree with the advice about the power transformer. There is an article in the files section of this site called "save your transformer" It describes using a light bulb while troubleshooting a problem such as yours.

Is your idle current set properly ? Very high idle current can cause the problem that you are experiencing, however shorted tubes are the most likely cause.

Vy 73, Walt N9WB

----- Original Message -----
From: Rich Jones
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 7:26 AM
Subject: Re: [TS-520_820_530_830] TS530 issue

Dave: I have not bought 6146 finals since I last needed them for a SB101. I see RF Parts has 6146W-MP. Is that an acceptable substitute for the 6146-B ?

David Rust <dlrust@...> wrote: Lucky me, I have a dozen fuses..

Rich, Not to sound like a smart a.. you may not have a dozen tries left in your power transformer. I feel like you are looking over the edge if you keep blowing fuses. You must find out what is going wrong asap. I would first suspect finals, but there are lots of other possibilities you should rule out one at a time.

But, be careful, a power transformer would become a major problem.
73 Dave W0DLR

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date: 10/18/06

[Non-text portions of this message have been removed]

10392. Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 20:50:36 UTC
From: David S Lund
Topic: 9340 Message: 10392

--- In TS-520_820_530_830@yahoogroups.com, "KEN (G3SDW)" <g3sdw@...>
wrote:

> >
> Hi david.I hope you have not purchased the Chinese tubes. I fell for
> that one a short time ago never again. They flashed over, took out the
> cathode resistors and most of all cooked the RF choke in the PA. Had a
> job to find another but in the end had to rewind the old one. Its true
> what Ellen said the Chinese tubes are ok in rigs with a lower plate
> voltage but not a Kenwood 530 which is what i have.
> I am keeping my fingers crossed that you have found some good US tubes.
> Best 73 from the UK
> Ken
> G3SDW....
>

Ken,

I don't have the Chinese tubes. Did a lot of reading about them before
I changed tubes. I have 6146W's that I purchased NOS about a year ago
- I think that they are GE's. Definitely not chinese. :)I also have my
original set of 2001's. I have the radio put back together with the
reistors and capacitors replaced.

I've set up the transformer saver.

Here's what I get. When I turn the rig on it is bright and quickly
fades to dim and stays that way.

When I turned on the SG switch the same thing except not as bright
then quickly fades to dim. It is holding a steady dim right now.

What should I do next? :)

David KB5DRJ

10393. Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 22:03:58 UTC
From: n9wb
Topic: 9340 Message: 10393

Check the two 10 ohm resistors that are in series with the final cathodes. Walt N9WB
----- Original Message -----
From: KEN (G3SDW)
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 2:32 PM
Subject: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

--- In TS-520_820_530_830@yahoogroups.com, "David S Lund" <kb5drj@...>
wrote:
>
> I was in the middle of tuning and had an IM on the computer. For some
> reason I left the radio in in tune mode and forgot about it. About 10
> minutes later there was a puff of smoke and the main fuse blew. I let
> the thing cool down for awhile and replaced the fuse - so far
> everything seems ok - I can't find anything that looks burned and I'm
> getting full output. Is there anything I should check?
>
> David KB5DRJ
>
Hi david.I hope you have not purchased the Chinese tubes. I fell for
that one a short time ago never again. They flashed over, took out the
cathode resistors and most of all cooked the RF choke in the PA. Had a
job to find another but in the end had to rewind the old one. Its true
what Ellen said the Chinese tubes are ok in rigs with a lower plate
voltage but not a Kenwood 530 which is what i have.
I am keeping my fingers crossed that you have found some good US tubes.
Best 73 from the UK
Ken
G3SDW....

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date: 10/18/06

[Non-text portions of this message have been removed]

10394. Re: [TS-520_820_530_830] Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 21:57:21 UTC
From: n9wb
Topic: 10354 Message: 10394

I already have the diodes, I just need time. Will get back.
Walt N9WB
----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 8:55 AM
Subject: [TS-520_820_530_830] Re: Internet site concerning unlocked IF Shift

Just out of curiousity - when you mention unlocking the IF shift, I
assume you mean completely disengaging it from the receive circuit?
Why do it? To eliminate any insertion loss? Admittedly, the IF
shift isn't always useful, but there are timew where I think it comes
in pretty handy.

Or, do you unlock it, to get a greater IF shift capability (sort of
like unlocking a PLL circuit, which is a bad thing). That sounds
like a can or worms I wouldn't want to deal with.

73,
Ellen - AF9J

P.S. - Walt, you going do the Schottky mod? If you need somebody to
compare it with, as one who is also a TS-820 & 820S afficionado, I'll
do it at the same time with my baby, as you're doing it with your
housecat special. If you want, we could even pool our purchases
together for the diodes.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
>
> First, I absolutely do not recommend this mod. I would never do it
to my
> TS-830. I believe that when a rig suffers too much modification, it
> eventually turns into junk. A lot of this is getting too much like
the
> "butcher shop" mods done to CB radios.
>
> However, with that disclaimer, I will discuss it with you.
>
> The top side of VR 2 is supplied power during transmit. This
forward biases
> D-56 and allows VR 2 to control D-57 that is a varactor diode.
>
> VR 1-1 part of the IF shift control and is supplied power on
receive. This

> forward biases D-55 so the IF shift network can control D-57. I
believe that
> the power on VR 1-1 comes from RLR on the AF board and is 9V on
receive
> only.
>
> To do this, you would have to disconnect D-56 to disable VR-2 and
supply 9v
> power on TX and RX to VR 1-1. If there are more than 1 wire going
to the
> top (3) of VR-1, these will have to be connected together but
removed from
> VR 1-1. Then the 9V applied to VR 1-1(3).
>
> WARNING: this just my attempt to answer Max's question. I have not
tried
> this, nor do I intend to. This is not a modification for the faint
of heart.
>
> I note that VR 1-1 is part of a network that also affects the BPT,
so if you
> attempt this, do it in such a way that it can be restored.
> I do not have a really good diagram so I cannot guarantee accuracy
of my
> statements.
> If you try this, and things go wrong, we may not be able to easily
bail you
> out!
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, October 19, 2006 5:00 AM
> Subject: Re: [TS-520_820_530_830] Internet site concerning unlocked
IF Shift
>
>
> In my opinion this is Hype city.
>
> If you really want to do this, we can figure it out and save
$180.00.
>
> I absolutely do NOT recommend the High POWER mod.
>
> I will look into D-55
>
> Vy 73, Walt N9WB

>
> ----- Original Message -----
> From: max_ve3tmt
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 18, 2006 9:05 PM
> Subject: [TS-520_820_530_830] Internet site concerning unlocked IF
Shift
>
> http://home.comcast.net/~esprepair/ts830mods.htm
>
> I see on this site there is a mod to unlock the IF shift on the
830. I
> curious about the pros or cons concerning this mod. VR2 on the PLL
> board is used to set the carrier insertion point, basically the TX
> side of the IF shift. I'm wondering if this mod unlocks the IF SHIFT
> to allow you to vary the insertion point from the front panel IF
SHIFT
> control. If anyone cares to examine the schematic and offer their
> thoughts. I am curious about the purpose of D55.
>
> Max VE3TMT
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date: 10/18/06

[Non-text portions of this message have been removed]

10395. Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 21:19:39 UTC
From: David S Lund
Topic: 9340 Message: 10395

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Check the two 10 ohm resistors that are in series with the final cathodes. Walt N9WB

Walt,

They are good. :)

David KB5DRJ

10396. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-19 21:22:54 UTC
From: Gordon
Topic: 10354 Message: 10396

Ellen,
You should have told me that you were interested in some Schottky Diodes. I moved 400 of them in a few days. Are you still looking for some ? They are only 11 cents each when ourchased in bulk.
It costs more to mail them then the Diodes cost.. hi hi...
73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Just out of curiousity - when you mention unlocking the IF shift, I
> assume you mean completely disengaging it from the receive circuit?
> Why do it? To eliminate any insertion loss? Admittedly, the IF
> shift isn't always useful, but there are timew where I think it comes
> in pretty handy.
>
> Or, do you unlock it, to get a greater IF shift capability (sort of
> like unlocking a PLL circuit, which is a bad thing). That sounds
> like a can or worms I wouldn't want to deal with.
>
> 73,
> Ellen - AF9J
>
> P.S. - Walt, you going do the Schottky mod? If you need somebody to
> compare it with, as one who is also a TS-820 & 820S afficionado, I'll
> do it at the same time with my baby, as you're doing it with your
> housecat special. If you want, we could even pool our purchases
> together for the diodes.
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Max:
> >
> > First, I absolutely do not recommend this mod. I would never do it
> to my
> > TS-830. I believe that when a rig suffers too much modification, it
> > eventually turns into junk. A lot of this is getting too much like
> the
> > "butcher shop" mods done to CB radios.
> >
> > However, with that disclaimer, I will discuss it with you.
> >
> > The top side of VR 2 is supplied power during transmit. This

> forward biases
> > D-56 and allows VR 2 to control D-57 that is a varactor diode.
> >
> > VR 1-1 part of the IF shift control and is supplied power on
> receive. This
> > forward biases D-55 so the IF shift network can control D-57. I
> believe that
> > the power on VR 1-1 comes from RLR on the AF board and is 9V on
> receive
> > only.
> >
> > To do this, you would have to disconnect D-56 to disable VR-2 and
> supply 9v
> > power on TX and RX to VR 1-1. If there are more than 1 wire going
> to the
> > top (3) of VR-1, these will have to be connected together but
> removed from
> > VR 1-1. Then the 9V applied to VR 1-1(3).
> >
> > WARNING: this just my attempt to answer Max's question. I have not
> tried
> > this, nor do I intend to. This is not a modification for the faint
> of heart.
> >
> > I note that VR 1-1 is part of a network that also affects the BPT,
> so if you
> > attempt this, do it in such a way that it can be restored.
> > I do not have a really good diagram so I cannot guarantee accuracy
> of my
> > statements.
> > If you try this, and things go wrong, we may not be able to easily
> bail you
> > out!
> >
> > Vy 73, Walt N9WB
> >
> >
> > ----- Original Message -----
> > From: n9wb
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Thursday, October 19, 2006 5:00 AM
> > Subject: Re: [TS-520_820_530_830] Internet site concerning unlocked
> IF Shift
> >
> >
> > In my opinion this is Hype city.
> >
> > If you really want to do this, we can figure it out and save
> $180.00.
> >

> > I absolutely do NOT recommend the High POWER mod.
> >
> > I will look into D-55
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: max_ve3tmt
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, October 18, 2006 9:05 PM
> > Subject: [TS-520_820_530_830] Internet site concerning unlocked IF
> Shift
> >
> > http://home.comcast.net/~esprepair/ts830mods.htm
> >
> > I see on this site there is a mod to unlock the IF shift on the
> 830. I
> > curious about the pros or cons concerning this mod. VR2 on the PLL
> > board is used to set the carrier insertion point, basically the TX
> > side of the IF shift. I'm wondering if this mod unlocks the IF SHIFT
> > to allow you to vary the insertion point from the front panel IF
> SHIFT
> > control. If anyone cares to examine the schematic and offer their
> > thoughts. I am curious about the purpose of D55.
> >
> > Max VE3TMT
> >
>

10397. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 01:17:37 UTC
From: Ellen R
Topic: 10354 Message: 10397

I might be Gordon. I just didn't know until recently, if the
Schottky diode mod would be of much use in my 820. I'm not even sure
how many I'd need.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ellen,
> You should have told me that you were interested in some Schottky
> Diodes. I moved 400 of them in a few days. Are you still looking
for
> some ? They are only 11 cents each when ourchased in bulk.
> It costs more to mail them then the Diodes cost.. hi hi...
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > Just out of curiousity - when you mention unlocking the IF shift,
I
> > assume you mean completely disengaging it from the receive
circuit?
> > Why do it? To eliminate any insertion loss? Admittedly, the IF
> > shift isn't always useful, but there are timew where I think it
comes
> > in pretty handy.
> >
> > Or, do you unlock it, to get a greater IF shift capability (sort
of
> > like unlocking a PLL circuit, which is a bad thing). That sounds
> > like a can or worms I wouldn't want to deal with.
> >
> > 73,
> > Ellen - AF9J
> >
> > P.S. - Walt, you going do the Schottky mod? If you need somebody
to
> > compare it with, as one who is also a TS-820 & 820S afficionado,
I'll
> > do it at the same time with my baby, as you're doing it with your
> > housecat special. If you want, we could even pool our purchases
> > together for the diodes.

> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> > >
> > > Max:
> > >
> > > First, I absolutely do not recommend this mod. I would never do
it
> > to my
> > > TS-830. I believe that when a rig suffers too much
modification, it
> > > eventually turns into junk. A lot of this is getting too much
like
> > the
> > > "butcher shop" mods done to CB radios.
> > >
> > > However, with that disclaimer, I will discuss it with you.
> > >
> > > The top side of VR 2 is supplied power during transmit. This
> > forward biases
> > > D-56 and allows VR 2 to control D-57 that is a varactor diode.
> > >
> > > VR 1-1 part of the IF shift control and is supplied power on
> > receive. This
> > > forward biases D-55 so the IF shift network can control D-57. I
> > believe that
> > > the power on VR 1-1 comes from RLR on the AF board and is 9V on
> > receive
> > > only.
> > >
> > > To do this, you would have to disconnect D-56 to disable VR-2
and
> > supply 9v
> > > power on TX and RX to VR 1-1. If there are more than 1 wire
going
> > to the
> > > top (3) of VR-1, these will have to be connected together but
> > removed from
> > > VR 1-1. Then the 9V applied to VR 1-1(3).
> > >
> > > WARNING: this just my attempt to answer Max's question. I have
not
> > tried
> > > this, nor do I intend to. This is not a modification for the
faint
> > of heart.
> > >
> > > I note that VR 1-1 is part of a network that also affects the
BPT,
> > so if you
> > > attempt this, do it in such a way that it can be restored.

> > > I do not have a really good diagram so I cannot guarantee
accuracy
> > of my
> > > statements.
> > > If you try this, and things go wrong, we may not be able to
easily
> > bail you
> > > out!
> > >
> > > Vy 73, Walt N9WB
> > >
> > >
> > > ----- Original Message -----
> > > From: n9wb
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Thursday, October 19, 2006 5:00 AM
> > > Subject: Re: [TS-520_820_530_830] Internet site concerning
unlocked
> > IF Shift
> > >
> > >
> > > In my opinion this is Hype city.
> > >
> > > If you really want to do this, we can figure it out and save
> > $180.00.
> > >
> > > I absolutely do NOT recommend the High POWER mod.
> > >
> > > I will look into D-55
> > >
> > > Vy 73, Walt N9WB
> > >
> > > ----- Original Message -----
> > > From: max_ve3tmt
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Wednesday, October 18, 2006 9:05 PM
> > > Subject: [TS-520_820_530_830] Internet site concerning unlocked
IF
> > Shift
> > >
> > > http://home.comcast.net/~esprepair/ts830mods.htm
> > >
> > > I see on this site there is a mod to unlock the IF shift on the
> > 830. I
> > > curious about the pros or cons concerning this mod. VR2 on the
PLL
> > > board is used to set the carrier insertion point, basically the
TX
> > > side of the IF shift. I'm wondering if this mod unlocks the IF
SHIFT

> > > to allow you to vary the insertion point from the front panel
IF
> > SHIFT
> > > control. If anyone cares to examine the schematic and offer
their
> > > thoughts. I am curious about the purpose of D55.
> > >
> > > Max VE3TMT
> > >
> >
>

10398. Re: [TS-520_820_530_830] Re: TS530 issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 02:05:44 UTC
From: Rich Jones
Topic: 9340 Message: 10398

Thanks Ellen, I learn quite a bit here, glad I found this site. I have decided to order the RF parts tubes. I will let you know how they work out. Thank you again, Rich

Ellen R <ellenjoanne2003@...> wrote: Hi Rich,

Yes you should be able to use the 6146 in place of the 6146B in your Kenwood. It'll just put out less power. BUT, I'd watch things closely for a while after you install the 6146 tubes. This is due to the fact that the 6146 only dissipates about 90W max. input power (so the output rating for a 6146 tube is about 45-50W). The 6146B dissipates 120W max. The Kenwoods run higher voltage than your typical rig that uses 6146Bs, so there is the potential for additional stress on the tubes.

73,
Ellen

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> Thank you so much for the timely reply. I called Purchase Radio in Ann Arbor Michigan and they have Chinese 6146-B tubes for $29.95 ea. I was going to get them, like you said, save the time and postage. I will order the RF parts ones for the same price and pay the postage and bid the time. Regarding my present tubes. I can get high wattage from them, do you think I should try, re-neutralizing them? I almost forgot. Purchase radio has been around for over 80 years. They have one set of RCA 6146 (no A or B). They want a little more for these, but I am doubtful they are a matched pair. What do you think?
>
> Ellen R <ellenjoanne2003@...> wrote: Yes it is. The 6146W is basically the militarized version of the
> 6146B. There are minor idfferences between the 6146B and the 6146W,
> nut the 6146W is a suitable substitute for the 6146B. Almost
> everybody who buys replacements for the 6146B tubes, buys 6146Ws, due
> to the fact that 6146Bs are gbecoming hard to find, and rather
> expensive.
>
> An interesting note - if you buy the JAN/Phillips 6146Ws that RF
> Parts sells, they are basically indentical to a 6146B. They cost a
> bit more than the average 6146W, but in my opinion, they're worth
> it. I put a set of them in my TS-820 this last April. They
> neutralized very easily, and I get 125-130W out on all bands.
>

> A word of warning to you - AVOID THE CHINESE 6146B AND 6146W TUBES
> LIKE THE PLAGUE! I made the mistake of buying a set of Chinese
> 6146Ws from AES (I only live 10 miles from the Milwaukee store, so
I
> figured I would save on the waiting, and postage I'd have to pay
for
> a set I ordered elsewhere). They were branded as Penta (the US
> vendor of the tube). The Chinese tubes may work will with rigs that
> run lower plate voltages than the 900V the Kenwood hybrids run, but
> they sure didn't work well with my TS-820. As some of the group
> members will remember me mentioning, as soon as I turned on the
> cathodes, the tubes flashed/arced over between the cathodes and the
> plates. The end result - I got the opportunity to open up my 820,
> and replace trashed High Voltage Board resistors, and resitors on
the
> Finals Board that were iffy from this little experience. Not aonly
> that, but now I'm stuck with a set of tubes I paid $54 for. The
> JAN/Phillips 6146Ws I bought from RF Parts, cost only $4 or $5
more,
> and are infinitely better. Ugh! You get waht you pay for. Other
> members of this group have had similar experiences with Chinese
6146W
> tubes.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Rich Jones
> <michjonezee@> wrote:
> >
> > Dave: I have not bought 6146 finals since I last needed them for
a
> SB101. I see RF Parts has 6146W-MP. Is that an acceptable
> substitute for the 6146-B ?
> >
> > David Rust <dlrust@> wrote: Lucky me, I have a dozen
> fuses..
> >
> > Rich, Not to sound like a smart a.. you may not have a dozen
tries
> left in your power transformer. I feel like you are looking over
the
> edge if you keep blowing fuses. You must find out what is going
wrong
> asap. I would first suspect finals, but there are lots of other
> possibilities you should rule out one at a time.
> >
> > But, be careful, a power transformer would become a major problem.
> > 73 Dave W0DLR
> >

> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> >
> > ---
> > Get your email and more, right on the new Yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---
> Get your own web address for just $1.99/1st yr. We'll help. Yahoo!
Small Business.
>
> [Non-text portions of this message have been removed]
>

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10399. Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 02:16:10 UTC
From: David S Lund
Topic: 9340 Message: 10399

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Check the two 10 ohm resistors that are in series with the final cathodes. Walt N9WB

Ok. :) Checked the cathode resistors and they are fine. I ran the radio in receive for awhile plugged in through the transformer saver first with the SG switch off, then for awhile with it on. Everything seems fine. Took it off the transformer saver and still seems fine. HV is about 850 on the meter and IP at 60 ma. Tuned it up into a dummy load and that seems normal as well. I think it is working fine.

Thanks for the help.

David KB5DRJ

10400. Re: Internet site concerning unlocked IF Shift

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 03:42:45 UTC
From: digs4ruff
Topic: 10354 Message: 10400

Ellen
I replaced all 16 and am more than pleased with the results. Using a G5RV in North Vancouver I could never hear the East coast. I could see the needle bouncing as I tuned across the band but no audio above the noise. Also not scientific but only observation, I used to have 4-5 S units of noise at all times. Now I here folks from New England to Florida and the noise is S2-3 most days.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> I might be Gordon. I just didn't know until recently, if the
> Schottky diode mod would be of much use in my 820. I'm not even sure
> how many I'd need.
>
> Ellen - AF9J

10401. RE: [TS-520_820_530_830] Kenwood TS-520D Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 04:07:54 UTC
From: Stephen Davis
Topic: 10341 Message: 10401

Hi Rich,

Thanks for your reply. Yes, I think you are right, the "D" model of the 520 was the Japenese or non-US version. I asked because I may pick one up that is not working as a project and had never heard of the "D" model.

Thanks again.

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rich Jones
Sent: Wednesday, October 18, 2006 3:02 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Kenwood TS-520D Question

If you google Kenwood TS520D you will almost always find the sites are in Japanese and refer to the product as TRIO. More than likely the Japanese version of the S. A friend of mine has an Icom 760, he bought it in Japan when he was there and it is virtually a 761. Maybe the same with the Kenwood TS520D? I am sure you will get lots of replies. Good luck, Rich

Stephen Davis <sdavis@beachnet. <mailto:sdavis%40beachnet.com> com> wrote:
Hello All,

Can anyone in the group tell me the difference between the TS-520S and the TS-520D?

Thanks
Steve K7QHU

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10402. Re: [TS-520_820_530_830] L19 L20 in TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 04:15:33 UTC
From: Bill Scurlock
Topic: 10364 Message: 10402

Hi Walt.

Do you know where I could find the proper Kenwood procedure for tuning L-19 and L-20 in the TS-830S? It could be in the service manual, but I don't have mine with me right now to check. Thanks.

73, Bill, K5GCW
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 6:26 AM
Subject: [TS-520_820_530_830] L19 L20 in TS-830

Once again, I would like to protest the de-tuning of L-19 and L-20 in the TS-830. This is a band pass filter and should be tuned for maximum or left as is if it is at the factory setting. De-tuning will corrupt it's filter characteristics. It will allow unwanted artifacts from the mixing process to pass through.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10403. TS-530s Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 05:09:47 UTC
From: Bob M
Topic: 10403 Message: 10403

G'day All,

Well the YK-88SN Filter turned up today and I fitted it.
It seems to be working fine, when I go to 10Mhz
and turn on the Calbrator the Narrow switch now
makes the signal over a very narrow BW.

The only thing I'm not sure of is the Jumpers.

The unit had a YK-88S and a YK-88CN in the first
two allocated spaces and the Jumpers were on B
to SSB and A to CW.

I do not use CW at this time. so I placed the
SN filter into the SSB Narrow location and moved
the B jumper to SSN.

So now I have

YK-88S
YK-88CN Jumpers at A to CW and B to SSB
YK-88SN

Befor the change I had no receive with the Narrow switch in now I have
as siscribed in irst sentance above.

Is this correct?

Many Thanks
Bob M.

10404. DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 07:21:04 UTC
From: Jerry
Topic: 8192 Message: 10404

I finally have my SSB/KENWOOD Rig..set up....here are the pics..thx de KE7GGV...73

http://members.tripod.com/ke7ggv/ke7ggvshack.html

10405. Re: [TS-520_820_530_830] DE KE7GGV

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 09:53:18 UTC
From: n9wb
Topic: 8192 Message: 10405

Jerry:

Nice set up! I see you have the "spinner knobs" on the TS-820 and the VFO. Interesting speaker. I am glad that you have ventured beyond the run of the mill communications speaker. Do the Tweeters have wires that are accessible on the back? If so, you may want to add switches to turn them off and on to change the frequency response for given conditions. Too bad about the ordnance on your antenna. In my opinion, in order to properly accommodate an Amateur Radio Station, the maximum height should be 1000' hi.
Hope you have joined the Kenwood QSO group. Hope to talk to you soon!

Vy 73, Walt N9WB

----- Original Message -----
From: Jerry
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 2:21 AM
Subject: [TS-520_820_530_830] DE KE7GGV

I finally have my SSB/KENWOOD Rig..set up....here are the pics..thx de KE7GGV...73

http://members.tripod.com/ke7ggv/ke7ggvshack.html

10406. Re: [TS-520_820_530_830] Kenwood TS-520D Question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 09:57:31 UTC
From: n9wb
Topic: 10341 Message: 10406

Could this be the model that had only 1 final ?. There was a license class in JA that had a limit of 75 watts and some rigs were made with one final to accommodate this. These can be converted to two tubes, but they drive amplifiers very lightly as is for a very nice clean signal as is.

This would be perfect for a Collins Thirty S one that requires 60 W PEP drive.

Vy 73, Walt N9WB

----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 11:07 PM
Subject: RE: [TS-520_820_530_830] Kenwood TS-520D Question

Hi Rich,

Thanks for your reply. Yes, I think you are right, the "D" model of the 520 was the Japenese or non-US version. I asked because I may pick one up that is not working as a project and had never heard of the "D" model.

Thanks again.

Steve K7QHU

10407. Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 09:59:44 UTC
From: n9wb
Topic: 9340 Message: 10407

Well, If it ain't broke, don't fix it, Hi

Vy 73, Walt N9WB

PS, You may feel better to know that you are not the first person who has done this.

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 9:16 PM
Subject: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Check the two 10 ohm resistors that are in series with the final
cathodes. Walt N9WB

Ok. :) Checked the cathode resistors and they are fine. I ran the
radio in receive for awhile plugged in through the transformer saver
first with the SG switch off, then for awhile with it on. Everything
seems fine. Took it off the transformer saver and still seems fine. HV
is about 850 on the meter and IP at 60 ma. Tuned it up into a dummy
load and that seems normal as well. I think it is working fine.

Thanks for the help.

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date: 10/18/06

[Non-text portions of this message have been removed]

10408. A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 09:19:28 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10408

ftp://bama.sbc.edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

10409. Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 10:24:37 UTC
From: n9wb
Topic: 9340 Message: 10409

TS 530:

If it ain't broke, don't fix it, however if you are into your TS-530 doing something you may wish to check the following resistors that are known to change value with age:

On the rectifier unit board, R-15 is 56 K. R-111 is 470 ohms. These often change in value with age. These are easily obtainable 1/2 watt resistors. They can be carbon, carbon film, or metal file type. Lift one end and check them. If they look bad or check out of tolerance, replace them.

On the R2, R3, R4, R5. are 20 ohm resistors. These are 1 watt and the wattage should NOT be increased. the 4 of these in parallel should measure 5 ohms.

Check across one of them in circuit. If you get 5 ohms and they look good, don't worry about them. If they check outside of this or look fried, replace them.

Vy 73, Walt N9WB

----- Original Message -----
From: Rich Jones
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 10:56 AM
Subject: Re: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

Walt: Can this also apply to a 530. I am talking about the resisters you mention below ont he final board? Thanks, Rich

n9wb <n9wb@...> wrote:

I am concerned, however. You may have shorted tubes. You are cruising for a needlessly blown transformer. Look up the article "save your transformer" and build a light bulb tester. Please take my advice on this and do not operate the rig any more until you have it in line. Transformers are very expensive and very hard to get.

Vy 73, Walt N9WB

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 18, 2006 12:08 AM
Subject: [TS-520_820_530_830] Re: Yikes! Almost blew up my 520. :(

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they
are in parallel and should read 5 ohms. They can be measured in the

circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.
>

Thanks Walt,

Well this morning I think that it gave it up. :) Got up this morning and turned on the radio and was just listening on 80 meters and all or a sudden there was a series of loud 'pops'. No smoke or fried smell. I shut it off. Looking inside I found that the cathode resistors were both open. Checked R5 and R6 on the final board and one of them ohmed out at 125 ohms. Replaced both of them and the cathode resistors R2 and R3. While I was in there replacing those I found a ceramic cap - one of the .047uf ones and it had flamed and was charred on the top - may be where the smoke came from??

While I'm in here I'm changing out the three resistors R5, R6 and R7 on the high voltage board.

Do you know what the value of C3 is? Looks like .047uf - do you know what voltage?

Thanks for all your help.

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.4/480 - Release Date: 10/17/06

[Non-text portions of this message have been removed]

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date: 10/18/06

[Non-text portions of this message have been removed]

10410. Re: [TS-520_820_530_830] TS-820S Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 10:45:50 UTC
From: n9wb
Topic: 10374 Message: 10410

Which Relay ? there are two. Does it have the same contact diagram as the original ?

Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 7:39 AM
Subject: [TS-520_820_530_830] TS-820S Relay

Good morning

I note that the relay in the TS-820S is a 12V - 300 ohm relay.
Can you use a 12V - 150 ohm relay in it's place, maybe with the
addition of a series resistor?
thanks
Barry

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date: 10/18/06

[Non-text portions of this message have been removed]

10411. Re: [TS-520_820_530_830] L19 L20 in TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 12:51:09 UTC
From: Chris HEmbree
Topic: 10364 Message: 10411

How do I retune L-19 L-20. Do we go back in and tune for max for USB,LSB
Chris.

n9wb <n9wb@...> wrote:

Once again, I would like to protest the de-tuning of L-19 and L-20 in the TS-830. This is a band pass filter and should be tuned for maximum or left as is if it is at the factory setting. De-tuning will corrupt it's filter characteristics. It will allow unwanted artifacts from the mixing process to pass through.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10412. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 13:12:11 UTC
From: Rich Jones
Topic: 10408 Message: 10412

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@...> wrote: ftp://bama.sbc.edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10413. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 13:35:41 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10413

I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10414. Re: A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 13:47:20 UTC
From: digs4ruff
Topic: 10408 Message: 10414

Ruben
Try
http://bama.edebris.com/manuals/
Much easier for those of us who are not proficient at FTP.
If you can get to the directory on the FTP server and see the file name you want just right click, save as.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"
>
> Ruben Echevarria <ka2hhb_2000@...> wrote:
ftp://bama.sbc.edu/downloads
>
> This link has many manuals available for free on many different brands.
> It's new to me so I thought I'd post it.
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
> ---------------------------------
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>

10415. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 13:52:43 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10415

Make sure you're using this link...
ftp://bama.sbc.edu/downloads

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:35:41 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10416. VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 13:56:31 UTC
From: w1ioo
Topic: 10416 Message: 10416

I am referbishing an 820s. The set receives with the external vf0-820 but not with the internal vfo. The vfo plug is in place and the 9 volts is present on plug of the vfo unit. Looking at pin 1 on the vfo plug there is no signal with the internal vfo but present with the external. Before I start to take the vfo appart Is there something else I may have overlooked and not checked. Thank you all in advance. Wally

10417. Re: [TS-520_820_530_830] Re: A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 14:00:33 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10417

I'm ok, I'm not having problems downloading the files...
I was trying to help Rich Jones ....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: digs4ruff <digs4ruff@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:47:20 AM
Subject: [TS-520_820_530_830] Re: A Very Good Link

Ruben
Try
http://bama. edebris.com/ manuals/
Much easier for those of us who are not proficient at FTP.
If you can get to the directory on the FTP server and see the file
name you want just right click, save as.
regards
Barry

--- In TS-520_820_530_ 830@yahoogroups. com, Rich Jones
<michjonezee@ ...> wrote:
>
> For what ever reason, each time I try to locate and dowload a
document I get "Cannot find a server screen"
>
> Ruben Echevarria <ka2hhb_2000@ ...> wrote:
ftp://bama.sbc. edu/downloads
>
> This link has many manuals available for free on many different
brands.
> It's new to me so I thought I'd post it.
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>

> ------------ --------- --------- ---
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10418. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 14:05:00 UTC
From: Rich Jones
Topic: 10408 Message: 10418

I have no proglem navigating to the very last step. Its when I try to open the specific file I get the server error reply. This is not the first time for me with Bama, I have never been able to get in. Thank you anyway. Rich

Ruben Echevarria <ka2hhb_2000@...> wrote: I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@...m>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10419. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 14:17:03 UTC
From: Rich Jones
Topic: 10408 Message: 10419

This is what comes up at the last when I try to open the last file: I was trying to open the Drake TR4 file.....

We can't find "ftp://bama.sbc.edu/downloads/drake/tr4/tr4.djvu" [input]
Error - DNS error or server not found
Ruben Echevarria <ka2hhb_2000@...> wrote:

I very much appreciate your persistance in trying to help me. Rich
Make sure you're using this link...
ftp://bama.sbc.edu/downloads

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:35:41 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10420. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 15:04:45 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10420

ftp://bama.sbc.edu/downloads/drake/tr4/

I just tried it and it worked for me. You'll need djvu to view the file .

Ruben Echevarria
ka2hhb_2000@yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 10:17:03 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

This is what comes up at the last when I try to open the last file: I was trying to open the Drake TR4 file..... ...

We can't find "ftp://bama.sbc. edu/downloads/ drake/tr4/ tr4.djvu" [input]
Error - DNS error or server not found
Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:

I very much appreciate your persistance in trying to help me. Rich
Make sure you're using this link...
ftp://bama.sbc. edu/downloads

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:35:41 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10421. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 15:13:01 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10421

Use this link then go up in directory a few times until you get to the main directory :

ftp://bama.sbc.edu/downloads/kenwood/tv506/

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 10:05:00 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

I have no proglem navigating to the very last step. Its when I try to open the specific file I get the server error reply. This is not the first time for me with Bama, I have never been able to get in. Thank you anyway. Rich

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10422. Re: VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 15:14:54 UTC
From: w5rkl
Topic: 10416 Message: 10422

You didn't state whether your 820 had the digital display or not. I'm going to assume it doesn't. If it does have the digital display but nothing is displayed on the digital display then the following will determine if there is any output from the VFO. Do not remove the shorting plug or wire between pins 8 and 9 on the rear.

If you have an all band receiver such as an FT-857D, TS-930 or any other all band transceiver, you can check for VFO output. Simply unplug the RCA plug on the rear of the 820s internal VFO. Using a video cable, the yellow colored cable that's used to connect VCRs, DVD or other video components to a television system, plug one end into the VFOs output. Place the other end close to the receivers antenna connection. Tune the receiver to 5 Mhz. Tune the 820 VFO until you hear the signal. It should be rather strong.

If you do not have an all band receiver but you have a frequency counter or o'scope, connect the output of the VFO to the counter or o'scope. The signal should be clean and stable as you tune the VFO.

If there is no output from the VFO more than likely the transistor is bad. If there is output but the 820s not working using the internal VFO, then the VFO cable more than likely has an open somewhere in the RCA plug, the cable itself or an internconnecting point between the VFO and the IF board.

When doing this check, leave the 2 prong power cable connected to the rear of the VFO. You also do not have to transmit to perform this simple test, so leave the 820 in receive mode.

73s

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w1ioo" <w1ioo@...> wrote:
>
> I am referbishing an 820s. The set receives with the external vf0-820
> but not with the internal vfo. The vfo plug is in place and the 9
> volts is present on plug of the vfo unit. Looking at pin 1 on the vfo
> plug there is no signal with the internal vfo but present with the
> external. Before I start to take the vfo appart Is there something
> else I may have overlooked and not checked. Thank you all in advance.
> Wally
>

10423. Re: A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 15:36:16 UTC
From: ya, as if
Topic: 10408 Message: 10423

Rich -

If you are using a browser to gain access to the ftp site then you need to do a right click->save before you can access the file.

or you can drag the file from the ftp site to your desktop and that will save it as well.

Don KD1ZI

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> This is what comes up at the last when I try to open the last file: I was trying to open the Drake TR4 file...........
>
>
> We can't find "ftp://bama.sbc.edu/downloads/drake/tr4/tr4.djvu" [input]
> Error - DNS error or server not found
> Ruben Echevarria <ka2hhb_2000@...> wrote:
>
>
> I very much appreciate your persistance in trying to help me.
Rich
> Make sure you're using this link...
> ftp://bama.sbc.edu/downloads
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
> ----- Original Message ----
> From: Ruben Echevarria <ka2hhb_2000@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 20, 2006 9:35:41 AM
> Subject: Re: [TS-520_820_530_830] A Very Good Link
>
> I click on the link and it takes me right to the files library.
> Choose a folder, then choose a file do a right click to download the file.
> It's working for me...Need more help? Let me know...
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308

>
> ----- Original Message ----
> From: Rich Jones <michjonezee@ yahoo.com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, October 20, 2006 9:12:11 AM
> Subject: Re: [TS-520_820_ 530_830] A Very Good Link
>
> For what ever reason, each time I try to locate and dowload a
document I get "Cannot find a server screen"
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc.
edu/downloads
>
> This link has many manuals available for free on many different
brands.
> It's new to me so I thought I'd post it.
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls.
Great rates starting at 1¢/min.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---------------------------------
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

10424. Re: [TS-520_820_530_830] VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 16:43:45 UTC
From: Bill Scurlock
Topic: 10416 Message: 10424

Wally.

Mike just gave you some good analysis methods. Let me tell you about the problem I fixed on a VFO-520 last week. The 520 radio worked fine with it's internal vfo, but when I switched to the remote vfo, no receive signal was heard - just the residual noise from the audio output amp when the volume control was increased. I did testing with a scope and saw that the remote vfo had a very strong signal output (about 3.8Vp-p as I recall), so then I started tracing wires. I found two broken coax center leads - one in the interconnecting cable, and the other on the remote vfo socket inside the TS-520 radio. So I would recommend that you do some wire tracing before jumping off into something more serious. The solid center conductor of the coax cables Kenwood used are very fragile. Good Hunting.

73, Bill, K5GCW
----- Original Message -----
From: w1ioo
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 8:56 AM
Subject: [TS-520_820_530_830] VFO on TS 820s not working

I am referbishing an 820s. The set receives with the external vf0-820
but not with the internal vfo. The vfo plug is in place and the 9
volts is present on plug of the vfo unit. Looking at pin 1 on the vfo
plug there is no signal with the internal vfo but present with the
external. Before I start to take the vfo appart Is there something
else I may have overlooked and not checked. Thank you all in advance.
Wally

[Non-text portions of this message have been removed]

10425. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 16:53:01 UTC
From: Bill Scurlock
Topic: 10408 Message: 10425

Rich.

Save yourself a lot of grief and just go to http://bama.edebris.com/manuals/ . It should come right up for you. I have also experienced lots of problems with the other site, but this one works every time. As one of the guys said, if you can download djvu to your computer sometime, that will give you the best displays when viewing those kinds of files. Good luck.

73, Bill, K5GCW
----- Original Message -----
From: Rich Jones
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:05 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

I have no proglem navigating to the very last step. Its when I try to open the specific file I get the server error reply. This is not the first time for me with Bama, I have never been able to get in. Thank you anyway. Rich

Ruben Echevarria <ka2hhb_2000@...> wrote: I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10426. Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 18:01:21 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10426

Rich, once you locate the file that you're interested in... just do a right click on the file name and select download, the window
will open up and you choose the directory that you want the file to go into. If you double click on the file as you normally
would you'll get an error. It's your last step that's causing the problem.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 11:04:45 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

ftp://bama.sbc. edu/downloads/ drake/tr4/

I just tried it and it worked for me. You'll need djvu to view the file .

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 10:17:03 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

This is what comes up at the last when I try to open the last file: I was trying to open the Drake TR4 file..... ...

We can't find "ftp://bama.sbc. edu/downloads/ drake/tr4/ tr4.djvu" [input]
Error - DNS error or server not found
Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:

I very much appreciate your persistance in trying to help me. Rich
Make sure you're using this link...
ftp://bama.sbc. edu/downloads

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com

Sent: Friday, October 20, 2006 9:35:41 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10427. [TS-520_820_530_830] FTP Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 18:15:33 UTC
From: Ruben Echevarria
Topic: 10427 Message: 10427

ftp://bama.sbc.edu/downloads/kenwood/tv506/ <---- OK if I use this link I can get an FTP connection using my browser.
Once the link is active I can then go up to the main folder where all the files are listed and choose whatever folder I may be
interested in. But if I just input : ftp://bama.sbc.edu/downloads I'll get a password window.
I'm not using a regular FTP program just my IE browser. After I'm in everything else falls into place.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 10:17:03 AM
Subject: Re: [TS-520_820_530_830] A Very Good Link

This is what comes up at the last when I try to open the last file: I was trying to open the Drake TR4 file..... ...

We can't find "ftp://bama.sbc. edu/downloads/ drake/tr4/ tr4.djvu" [input]
Error - DNS error or server not found
Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:

I very much appreciate your persistance in trying to help me. Rich
Make sure you're using this link...
ftp://bama.sbc. edu/downloads

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:35:41 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

I click on the link and it takes me right to the files library.
Choose a folder, then choose a file do a right click to download the file.
It's working for me...Need more help? Let me know...

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Rich Jones <michjonezee@ yahoo.com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 9:12:11 AM
Subject: Re: [TS-520_820_ 530_830] A Very Good Link

For what ever reason, each time I try to locate and dowload a document I get "Cannot find a server screen"

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads

This link has many manuals available for free on many different brands.
It's new to me so I thought I'd post it.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10428. Re: TS-820S Relay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 17:17:20 UTC
From: w5rkl
Topic: 10374 Message: 10428

Yes, you can use a resistor in series with a relay coil. You will, however, have to computer, using ohms law, the correct resistor wattage.

A relay coil requires a minimum current to begin pulling the relay close. This can be computed using the following ohms law formula:

I = E/R

I is the total current through the relay
E is the source voltage
R is the relay coil resistance.

A relay coil with a DC resistance of 300 ohms and a source voltage of 12vdc will draw .040 ma (40 ma) of current. However, a relay coil with a DC resistance of 150 ohm will draw twice the current. See the following ohms law math:

Source voltage: 12 vdc

Relay #1
12/300 = .040ma (I) (relay coil resistance of 300 ohms)

Relay #2
12/150 = .080ma (I) (relay coil resistance of 150 ohms)

The power consumed in both instances using ohms law math is:

P = I x E

300 ohms relay coil = .48 watts (1/2 watt)
150 ohms relay coil = .96 watts (1 watt)

73s,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Which Relay ? there are two. Does it have the same contact diagram as the original ?
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: digs4ruff
> To: TS-520_820_530_830@yahoogroups.com

> Sent: Thursday, October 19, 2006 7:39 AM
> Subject: [TS-520_820_530_830] TS-820S Relay
>
>
> Good morning
>
> I note that the relay in the TS-820S is a 12V - 300 ohm relay.
> Can you use a 12V - 150 ohm relay in it's place, maybe with the
> addition of a series resistor?
> thanks
> Barry
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.5/483 - Release Date:
10/18/06
>
>
> [Non-text portions of this message have been removed]
>

10429. TS-830s with low output.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 18:00:36 UTC
From: k4chs
Topic: 10429 Message: 10429

My TS-830s works great...with the exception that the TX only puts out 35 watts (CW). This is a recent change from full outout. I have measured the high voltage and it is only 425 VDC in keydown mode, 700 VDC in receive.

I have measured the power transformer secondary and on the 800 VAC pin I only get 450 VAC compared to the 0 VAC side of the seconday winding. All other AC secondary voltages are reduced by 35% or so. This leads me to think that I may have a shorted primary winding...any body have any thoughts on this issue.

Thanks,

Mac, K4CHS

10430. Re: TS 520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 20:04:44 UTC
From: PERRY
Topic: 6634 Message: 10430

-Diode voltage if D11 is 9 volts
Drain voltage on Q2 is 9 volts

Perry

-- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Did you check the voltage on D-11? What is the drain voltage of Q2 ?
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: PERRY
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 18, 2006 7:30 PM
> Subject: [TS-520_820_530_830] TS 520
>
>
> Took a fews days off, then back to the NO TX on the TS520
> I have Carrier 3.395 at the Gate G1 of Q2 on the If Board .5vots
on the
> ocilliscope, freq counter comfermed 3.395. On Gate G2 of Q2 on
the If
> board I have 2.5v from the vfo 5.3 Mhz. The 520 receives great.
> I can not get the Q2 tx mixer to work. its been changed resistors
R21-
> 24-25 have been changed. C22 C24 changed. Q2 changed twice. T4 I
> can get it to peek if I inject 8.695 at the Drain of Q2 but T3
will
> not show a change. I tried different values at C22..
> When I inject 8.695 at the Drain of Q2 I can get the Radio to tx
no
> problem..
> What am I missing ? to get Q2 to mix and give me 8.695 out ?
> Perry wa8th

10431. Re: [TS-520_820_530_830] TS-830s with low output.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 20:05:39 UTC
From: David Rust
Topic: 10429 Message: 10431

Mac, K4CHS,
I just had a similiar circumstance with my 830s. It was suggested by one of the members here to replace the two filter capacitors. The exact replacements are not available, however, I got a couple from DigiKey that worked just fine.

My HV is back up where it belonged, and I have full output. DigiKey Part P7448-ND. If they don't have that I thank P7449-ND is the same thing. Both are 100uf 500 volt.

Dave W0DLR

[Non-text portions of this message have been removed]

10432. Re: Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 20:54:12 UTC
From: crousseau@alltel.net
Topic: 10408 Message: 10432

> I agree the BAMA sight is great. But at first I was unable to download any files. I could get to them, but the downloads would always fail. It wasn't until I downloaded and used Netscape as my browser that everything worked. I don't know why this is so but there are links on the BAMA sight which refer to "IE" not working properly. 73s Cal WO0L :)
> From: "Bill Scurlock" <k5gcw@...>
> Date: 2006/10/20 Fri AM 11:53:01 CDT
> To: <TS-520_820_530_830@yahoogroups.com>
> Subject: Re: [TS-520_820_530_830] A Very Good Link
>
> Rich.
>
> Save yourself a lot of grief and just go to http://bama.edebris.com/manuals/ . It should come right up for you. I have also experienced lots of problems with the other site, but this one works every time. As one of the guys said, if you can download djvu to your computer sometime, that will give you the best displays when viewing those kinds of files. Good luck.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Rich Jones
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 20, 2006 9:05 AM
> Subject: Re: [TS-520_820_530_830] A Very Good Link
>
>
> I have no proglem navigating to the very last step. Its when I try to open the specific file I get the server error reply. This is not the first time for me with Bama, I have never been able to get in. Thank you anyway. Rich
>
> Ruben Echevarria <ka2hhb_2000@...> wrote: I click on the link and it takes me right to the files library.
> Choose a folder, then choose a file do a right click to download the file.
> It's working for me...Need more help? Let me know...
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
> ----- Original Message ----
> From: Rich Jones <michjonezee@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 20, 2006 9:12:11 AM
> Subject: Re: [TS-520_820_530_830] A Very Good Link
>
> For what ever reason, each time I try to locate and dowload a document I get "Cannot find

a server screen"
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads
>
> This link has many manuals available for free on many different brands.
> It's new to me so I thought I'd post it.
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1?/min.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>

10433. 820S problem found

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 21:16:08 UTC
From: w5rkl
Topic: 10433 Message: 10433

Well after a troubleshooting task and a process of elimination on my 820, I finally found the problem on receive. I couldn't get an IF signal through nor could I get anything through, even feeding the signal into the RF amp, RF amp buffer and mixer stages. All the frequency controlling circuits were working fine and very stable looking on the scope. All the transistors in the RF amp, RF amp buffer and mixer stage couldn't be bad. Finally, after turning the function switch back and forth, I heard a very brief tone that stopped as I turned the switch further. I turned the function switch slowly clockwise, as though I was turning to VFO R. Half way between VFO and VFO R, the receiver came to life and I heard the 8.830Mhz injected IF signal and the signal pegged the meter. Removed the IF signal, injected a 7.150 at the antenna input, dialed up 7.150 on the 820 and there it was, S9. Adjusted the preselctor and coil pack, 20 over. I'll need to do further adjustments once I repair the function switch.

Now it's just finding which wafer on the function switch is bad. I've read it's a real bear to work on. Any suggestions by anyone who has done this? I would suspect removal of the switch should indicate which one has turned or is bent. Sitting here listening to 2 guys chat on 40 CW at 25 wpm, very nice sound to hear. he he he...

73's

Mike
W5RKL

10434. Re: Re: [TS-520_820_530_830] A Very Good Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 22:06:16 UTC
From: Ruben Echevarria
Topic: 10408 Message: 10434

I'm using IE with no real problems. Also installed DJvu and it's now integrated into my IE browser and it all works. Guess I was lucky.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: "crousseau@..." <crousseau@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 4:54:12 PM
Subject: Re: Re: [TS-520_820_530_830] A Very Good Link

> I agree the BAMA sight is great. But at first I was unable to download any files. I could get to them, but the downloads would always fail. It wasn't until I downloaded and used Netscape as my browser that everything worked. I don't know why this is so but there are links on the BAMA sight which refer to "IE" not working properly. 73s Cal WO0L :)
> From: "Bill Scurlock" <k5gcw@sbcglobal. net>
> Date: 2006/10/20 Fri AM 11:53:01 CDT
> To: <TS-520_820_530_ 830@yahoogroups. com>
> Subject: Re: [TS-520_820_ 530_830] A Very Good Link
>
> Rich.
>
> Save yourself a lot of grief and just go to http://bama. edebris.com/ manuals/ . It should come right up for you. I have also experienced lots of problems with the other site, but this one works every time. As one of the guys said, if you can download djvu to your computer sometime, that will give you the best displays when viewing those kinds of files. Good luck.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Rich Jones
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, October 20, 2006 9:05 AM
> Subject: Re: [TS-520_820_ 530_830] A Very Good Link
>
>
> I have no proglem navigating to the very last step. Its when I try to open the specific file I get the server error reply. This is not the first time for me with Bama, I have never been able to get in. Thank you anyway. Rich
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: I click on the link and it takes me right to the files library.
> Choose a folder, then choose a file do a right click to download the file.
> It's working for me...Need more help? Let me know...

>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> ----- Original Message ----
> From: Rich Jones <michjonezee@ yahoo.com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, October 20, 2006 9:12:11 AM
> Subject: Re: [TS-520_820_ 530_830] A Very Good Link
>
> For what ever reason, each time I try to locate and dowload a document I get "Cannot find
a server screen"
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads
>
> This link has many manuals available for free on many different brands.
> It's new to me so I thought I'd post it.
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1¢/min.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
> ------------ --------- --------- ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>

[Non-text portions of this message have been removed]

10435. Re: [TS-520_820_530_830] FTP Link

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 21:19:30 UTC
From: Dimiter Kroumov
Topic: 10427 Message: 10435

Hi Ruben

Please remove the spaces from the links. They work fine.
ftp://bama.sbc.edu/downloads/ is fine also. (Please note the trailing slash.)

regards
73! Mitko
K8ZB/LZ3NY

Ruben Echevarria writes:

> ftp://bama.sbc.edu/downloads/kenwood/tv506/ <---- OK if I use this link I can get an FTP connection using my browser.
> Once the link is active I can then go up to the main folder where all the files are listed and choose whatever folder I may be
> interested in. But if I just input : ftp://bama.sbc.edu/downloads I'll get a password window.
> I'm not using a regular FTP program just my IE browser. After I'm in everything else falls into place.
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
>
>
> ----- Original Message ----
> From: Rich Jones <michjonezee@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 20, 2006 10:17:03 AM
> Subject: Re: [TS-520_820_530_830] A Very Good Link
>
> This is what comes up at the last when I try to open the last file: I was trying to open the Drake TR4 file..... ...
>
>
> We can't find "ftp://bama.sbc. edu/downloads/ drake/tr4/ tr4.djvu" [input]
> Error - DNS error or server not found
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
>
>
> I very much appreciate your persistance in trying to help me. Rich
> Make sure you're using this link...
> ftp://bama.sbc. edu/downloads
>

> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> ----- Original Message ----
> From: Ruben Echevarria <ka2hhb_2000@ yahoo.com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, October 20, 2006 9:35:41 AM
> Subject: Re: [TS-520_820_ 530_830] A Very Good Link
>
> I click on the link and it takes me right to the files library.
> Choose a folder, then choose a file do a right click to download the file.
> It's working for me...Need more help? Let me know...
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> ----- Original Message ----
> From: Rich Jones <michjonezee@ yahoo.com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, October 20, 2006 9:12:11 AM
> Subject: Re: [TS-520_820_ 530_830] A Very Good Link
>
> For what ever reason, each time I try to locate and dowload a document I get "Cannot find
a server screen"
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote: ftp://bama.sbc. edu/downloads
>
> This link has many manuals available for free on many different brands.
> It's new to me so I thought I'd post it.
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1¢/min.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
> ------------ --------- --------- ---

> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

10436. Re: VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 23:23:42 UTC
From: w1ioo
Topic: 10416 Message: 10436

Thank you Bill and Mike. I looked at the output of the VFO and the sine wave was about 15mv p-p. The frequency was correct for the VFO output. It was not stable. I have a copy of the service manual and it shows how to take the VFO out. I also have a schmatic of it with voltage readings. Probably a transistor or two gone. Will dive into it this weekend. Will let you all know the results.
Wally

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Wally.
>
> Mike just gave you some good analysis methods. Let me tell you about the problem I fixed on a VFO-520 last week. The 520 radio worked fine with it's internal vfo, but when I switched to the remote vfo, no receive signal was heard - just the residual noise from the audio output amp when the volume control was increased. I did testing with a scope and saw that the remote vfo had a very strong signal output (about 3.8Vp-p as I recall), so then I started tracing wires. I found two broken coax center leads - one in the interconnecting cable, and the other on the remote vfo socket inside the TS-520 radio. So I would recommend that you do some wire tracing before jumping off into something more serious. The solid center conductor of the coax cables Kenwood used are very fragile. Good Hunting.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: w1ioo
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 20, 2006 8:56 AM
> Subject: [TS-520_820_530_830] VFO on TS 820s not working
>
>
> I am referbishing an 820s. The set receives with the external vf0-820
> but not with the internal vfo. The vfo plug is in place and the 9
> volts is present on plug of the vfo unit. Looking at pin 1 on the vfo
> plug there is no signal with the internal vfo but present with the
> external. Before I start to take the vfo appart Is there something

> else I may have overlooked and not checked. Thank you all in
advance.
> Wally
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

10437. SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-20 23:40:56 UTC
From: walt512
Topic: 10437 Message: 10437

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the probes and service/operations manual. I am seeking assistance in finding a source to purchase probes and a source for the manual or a copy. Any and all assistance is appericated. I have done a Goggle search but no luck yet.

Thanks,
Walt, KA2NJF

10438. Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 00:52:12 UTC
From: Troy, W6HV
Topic: 10437 Message: 10438

Not quite what you want, Walt, but the manual for models 3003-3006 (which might be close enough) can be downloaded at:
http://www.bitsavers.org/pdf/wavetek/<http://www.bitsavers.org/pdf/wavetek/>

73,
Troy, W6HV
----- Original Message -----
From: walt512<mailto:wmilton@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Friday, October 20, 2006 4:40 PM
Subject: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the
probes and service/operations manual. I am seeking assistance in
finding a source to purchase probes and a source for the manual or a
copy. Any and all assistance is appericated. I have done a Goggle
search but no luck yet.

Thanks,
Walt, KA2NJF

Yahoo! Groups Links

[Non-text portions of this message have been removed]

10439. RE: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 01:26:16 UTC
From: Walter Milton
Topic: 10437 Message: 10439

Thanks Troy,

I have downloaded that manual but it is not close.

Psalm 1
A Child of the living God
Walt , KA2NJF

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Troy, W6HV
Sent: Friday, October 20, 2006 8:52 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Not quite what you want, Walt, but the manual for models 3003-3006 (which
might be close enough) can be downloaded at:
http://www.bitsaver <http://www.bitsavers.org/pdf/wavetek/>
s.org/pdf/wavetek/<http://www.bitsaver
<http://www.bitsavers.org/pdf/wavetek/> s.org/pdf/wavetek/>

73,
Troy, W6HV
----- Original Message -----
From: walt512<mailto:wmilton@comcast. <mailto:wmilton%40comcast.net> net>
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com<mailto:TS-520_820_530_
<mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com>
Sent: Friday, October 20, 2006 4:40 PM
Subject: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the
probes and service/operations manual. I am seeking assistance in
finding a source to purchase probes and a source for the manual or a
copy. Any and all assistance is appericated. I have done a Goggle
search but no luck yet.

Thanks,
Walt, KA2NJF

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10440. Re: [TS-520_820_530_830] Re: VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 03:37:26 UTC
From: Bill Scurlock
Topic: 10416 Message: 10440

Wally.

I followed the manual directions when removing the vfo from my TS-820 and everything went well. Just try not to disturb any of the mechanical gearing in the process. After you get the vfo module out of the radio, there are ways to position it on the workbench without it resting on the dial assembly which is larger than the vfo enclosure. We will be interested in what you find.

73, Bill, K5GCW
----- Original Message -----
From: w1ioo
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 6:23 PM
Subject: [TS-520_820_530_830] Re: VFO on TS 820s not working

Thank you Bill and Mike. I looked at the output of the VFO and the sine wave was about 15mv p-p. The frequency was correct for the VFO output. It was not stable. I have a copy of the service manual and it shows how to take the VFO out. I also have a schmatic of it with voltage readings. Probably a transistor or two gone. Will dive into it this weekend. Will let you all know the results.
Wally

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Wally.
>
> Mike just gave you some good analysis methods. Let me tell you about the problem I fixed on a VFO-520 last week. The 520 radio worked fine with it's internal vfo, but when I switched to the remote vfo, no receive signal was heard - just the residual noise from the audio output amp when the volume control was increased. I did testing with a scope and saw that the remote vfo had a very strong signal output (about 3.8Vp-p as I recall), so then I started tracing wires. I found two broken coax center leads - one in the interconnecting cable, and the other on the remote vfo socket inside the TS-520 radio. So I would recommend that you do some wire tracing before jumping off into something more serious. The solid center conductor of the coax cables Kenwood used are very fragile.
Good Hunting.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: w1ioo
> To: TS-520_820_530_830@yahoogroups.com

> Sent: Friday, October 20, 2006 8:56 AM
> Subject: [TS-520_820_530_830] VFO on TS 820s not working
>
>
> I am referbishing an 820s. The set receives with the external
vf0-820
> but not with the internal vfo. The vfo plug is in place and the
9
> volts is present on plug of the vfo unit. Looking at pin 1 on
the vfo
> plug there is no signal with the internal vfo but present with
the
> external. Before I start to take the vfo appart Is there
something
> else I may have overlooked and not checked. Thank you all in
advance.
> Wally
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10441. [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 05:16:00 UTC
From: Rick
Topic: 10441 Message: 10441

Hello All,

Since I more or less started this push to install 1N5711 Shottky diodes after talking with Gordon on 20 meters a while back, I thought I would try and measure and/or display what exactly was happening with the receiver. Was the receiver actually quieter because of lower noise floor with the same sensitivity or was something else at work here. I have an absolutely stock 830S...Serial number 21XXXXX that I decided to do a before and after noise level test, (YK-88S1 2.7khz filter), swapping out the stock 1N60's with the Shottky 1N5711's. I used a shielded 50 ohm BNC terminator cap off of an old Novell network as my dummy load to reduce any stray signals. I then used the calibrate signal to tune a 1khz tone and the AF control to put it right on the 0dB level on the Spectrum Analyzer program I use. I then turned off the calibrate signal and let the analyzer program run simultaneous both a Free and an Average plot for 60 seconds in both tests. I only swapped out the four diodes in the product detector, added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other changes.We know all solid state devices generate noise. Some more than other. After the test I include the 1N60's in the very noisy class. In the jpeg, the blue is the free running audio and the red is the average. You will notice a very obvious spike at about 300hz on both graphs as a reference. There is a pretty dramatic difference. I am open to any ideas as make this a more accurate test. I loaded the resulting jpegs into the files section of the group.

73' Rick KC0HH
Lamar, Colorado

10442. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 07:18:36 UTC
From: n9wb
Topic: 10441 Message: 10442

Sports Fans:

Very useful information.

Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to before/after mod. at the bottom of the picture where it says View, click on large.
Thanks Rick.

Vy 73, Walt N9WB

----- Original Message -----
From: Rick
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 12:16 AM
Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Hello All,

Since I more or less started this push to install 1N5711 Shottky diodes after talking with Gordon on 20 meters a while back, I thought I would try and measure and/or display what exactly was happening with the receiver. Was the receiver actually quieter because of lower noise floor with the same sensitivity or was something else at work here. I have an absolutely stock 830S...Serial number 21XXXXX that I decided to do a before and after noise level test, (YK-88S1 2.7khz filter), swapping out the stock 1N60's with the Shottky 1N5711's. I used a shielded 50 ohm BNC terminator cap off of an old Novell network as my dummy load to reduce any stray signals. I then used the calibrate signal to tune a 1khz tone and the AF control to put it right on the 0dB level on the Spectrum Analyzer program I use. I then turned off the calibrate signal and let the analyzer program run simultaneous both a Free and an Average plot for 60 seconds in both tests. I only swapped out the four diodes in the product detector, added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other changes.We know all solid state devices generate noise. Some more than other. After the test I include the 1N60's in the very noisy class. In the jpeg, the blue is the free running audio and the red is the average. You will notice a very obvious spike at about 300hz on both graphs as a reference. There is a pretty dramatic difference. I am open to any ideas as make this a more accurate test. I loaded the resulting jpegs into the files section of the group.

73' Rick KC0HH
Lamar, Colorado

10443. Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 08:03:18 UTC
From: n9wb
Topic: 10437 Message: 10443

If you have no luck here, try joining the "Amateur Repairs" group and ask the question there.

Vy 73, Walt N9WB

----- Original Message -----
From: walt512
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 20, 2006 6:40 PM
Subject: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the probes and service/operations manual. I am seeking assistance in finding a source to purchase probes and a source for the manual or a copy. Any and all assistance is appericated. I have done a Goggle search but no luck yet.

Thanks,
Walt, KA2NJF

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10444. TS-520S connected to a PC??

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 07:32:14 UTC
From: Daniel
Topic: 10444 Message: 10444

Hi folks

Does anybody here has an idea or perhaps a solution how can I connect an old TRX , like my TS-520S is, to a PC? So a can read the frequency/band/mode into my logsoftware?

Daniel, HB9DDS

10445. Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:10:51 UTC
From: Ruben Echevarria
Topic: 10437 Message: 10445

Best I could do was a Wavetek 3510 Service Manual ......From the BAMA site....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 4:03:18 AM
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

If you have no luck here, try joining the "Amateur Repairs" group and ask the question there.

Vy 73, Walt N9WB

----- Original Message -----
From: walt512
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 6:40 PM
Subject: [TS-520_820_ 530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the probes and service/operations manual. I am seeking assistance in finding a source to purchase probes and a source for the manual or a copy. Any and all assistance is appericated. I have done a Goggle search but no luck yet.

Thanks,
Walt, KA2NJF

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10446. Person Who sells paint and Restores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:06:53 UTC
From: Jeff May
Topic: 10446 Message: 10446

I know it is a 4 call but I lost the reference..can anyone help? Thanks...Jeff...W0XV

[Non-text portions of this message have been removed]

10447. Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:14:29 UTC
From: Ruben Echevarria
Topic: 10437 Message: 10447

On E-Bay :
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=25409&item=7538219368&rd=1&ssPageName=WIN:POST0:RECO:BIN

Service Manual for Wavetek 3007 on E-Bay .. Item number: 7538219368

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 4:03:18 AM
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

If you have no luck here, try joining the "Amateur Repairs" group and ask the question there.

Vy 73, Walt N9WB

----- Original Message -----
From: walt512
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 6:40 PM
Subject: [TS-520_820_ 530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the
probes and service/operations manual. I am seeking assistance in
finding a source to purchase probes and a source for the manual or a
copy. Any and all assistance is appericated. I have done a Goggle
search but no luck yet.

Thanks,
Walt, KA2NJF

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10448. Re: [TS-520_820_530_830] Person Who sells paint and Restores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:15:54 UTC
From: Ruben Echevarria
Topic: 10446 Message: 10448

That would be Ken Kemski K4EAA www.k4eaa.com

73....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Jeff May <W0XV@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:06:53 AM
Subject: [TS-520_820_530_830] Person Who sells paint and Restores

I know it is a 4 call but I lost the reference..can anyone help? Thanks...Jeff. ..W0XV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10449. Re: [TS-520_820_530_830] Person Who sells paint and Restores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:23:20 UTC
From: Jeff May
Topic: 10446 Message: 10449

Thanks!
----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 5:15 AM
Subject: Re: [TS-520_820_530_830] Person Who sells paint and Restores

That would be Ken Kemski K4EAA www.k4eaa.com

73....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Jeff May <W0XV@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:06:53 AM
Subject: [TS-520_820_530_830] Person Who sells paint and Restores

I know it is a 4 call but I lost the reference..can anyone help? Thanks...Jeff. ..W0XV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10450. Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:24:47 UTC
From: Ruben Echevarria
Topic: 10437 Message: 10450

Also: http://home.comcast.net/~aa4df02/wtek3007.htm
Has manual available in High Res & regular resolution on CD.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:14:29 AM
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

On E-Bay :
http://cgi.ebay. com/ws/eBayISAPI .dll?ViewItem& category= 25409&item= 7538219368&
rd=1&ssPageName= WIN:POST0: RECO:BIN

Service Manual for Wavetek 3007 on E-Bay .. Item number: 7538219368

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, October 21, 2006 4:03:18 AM
Subject: Re: [TS-520_820_ 530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

If you have no luck here, try joining the "Amateur Repairs" group and ask the question
there.

Vy 73, Walt N9WB

----- Original Message -----
From: walt512
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 6:40 PM
Subject: [TS-520_820_ 530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the
probes and service/operations manual. I am seeking assistance in
finding a source to purchase probes and a source for the manual or a

copy. Any and all assistance is appericated. I have done a Goggle
search but no luck yet.

Thanks,
Walt, KA2NJF

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10451. Re: [TS-520_820_530_830] Person Who sells paint and Restores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 10:27:05 UTC
From: Ruben Echevarria
Topic: 10446 Message: 10451

You're welcome.....73..

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Jeff May <W0XV@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:23:20 AM
Subject: Re: [TS-520_820_530_830] Person Who sells paint and Restores

Thanks!
----- Original Message -----
From: Ruben Echevarria
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, October 21, 2006 5:15 AM
Subject: Re: [TS-520_820_ 530_830] Person Who sells paint and Restores

That would be Ken Kemski K4EAA www.k4eaa.com

73....

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Jeff May <W0XV@cableone. net>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, October 21, 2006 6:06:53 AM
Subject: [TS-520_820_ 530_830] Person Who sells paint and Restores

I know it is a 4 call but I lost the reference..can anyone help? Thanks...Jeff. ..W0XV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10452. L19-L20 Adjustment.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 13:34:22 UTC
From: w7cth
Topic: 10452 Message: 10452

I need help clearing up some confusion. It has been posted that setting up L19 and L20 after the diode mod to 600mv is not the best way to do this.What would be the best way to set this up?After I did this mod the USB and LSB did not match so I Adj. them both to 600mv with the scope.
I am a Vergo and a perfectionist and when thing are not right it drive me nuts.
Chris W7CTH

10453. RE: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 13:45:56 UTC
From: Walter Milton
Topic: 10437 Message: 10453

Thanks Ruben,

I saw that also and the closes I could find was the model-3001 to 3006.
close but no cigar.

Walt, KA2NJF
Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ruben Echevarria
Sent: Saturday, October 21, 2006 6:11 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Best I could do was a Wavetek 3510 Service Manual ......From the BAMA
site....

Ruben Echevarria
ka2hhb_2000@ <mailto:ka2hhb_2000%40yahoo.com> yahoo.com
10-10 33308

----- Original Message ----
From: n9wb <n9wb@... <mailto:n9wb%40nltc.net> >
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, October 21, 2006 4:03:18 AM
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

If you have no luck here, try joining the "Amateur Repairs" group and ask
the question there.

Vy 73, Walt N9WB

----- Original Message -----
From: walt512
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 6:40 PM
Subject: [TS-520_820_ 530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the probes and service/operations manual. I am seeking assistance in finding a source to purchase probes and a source for the manual or a copy. Any and all assistance is appericated. I have done a Goggle search but no luck yet.

Thanks,
Walt, KA2NJF

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10454. RE: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 13:47:09 UTC
From: Walter Milton
Topic: 10437 Message: 10454

GOT IT !!

Thanks,
Walt, KA2NJF

Psalm 1
A Child of the living God
Walt

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ruben Echevarria
Sent: Saturday, October 21, 2006 6:14 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

On E-Bay :
http://cgi.ebay.
<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=25409&item=753821936
8&rd=1&ssPageName=WIN:POST0:RECO:BIN>
com/ws/eBayISAPI.dll?ViewItem&category=25409&item=7538219368&rd=1&ssPageName
=WIN:POST0:RECO:BIN

Service Manual for Wavetek 3007 on E-Bay .. Item number: 7538219368

Ruben Echevarria
ka2hhb_2000@ <mailto:ka2hhb_2000%40yahoo.com> yahoo.com
10-10 33308

----- Original Message ----
From: n9wb <n9wb@... <mailto:n9wb%40nltc.net> >
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Saturday, October 21, 2006 4:03:18 AM
Subject: Re: [TS-520_820_530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

If you have no luck here, try joining the "Amateur Repairs" group and ask
the question there.

Vy 73, Walt N9WB

----- Original Message -----
From: walt512
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 20, 2006 6:40 PM

Subject: [TS-520_820_ 530_830] SIGNAL GENERATOR - WAVETEK MODEL-3007

All,

I know that this is off topic, but I am despert!
I just received a Wavetek Model 3007 Signal Generator without the probes and service/operations manual. I am seeking assistance in finding a source to purchase probes and a source for the manual or a copy. Any and all assistance is appericated. I have done a Goggle search but no luck yet.

Thanks,
Walt, KA2NJF

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10455. Re: Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 14:38:50 UTC
From: Clif
Topic: 10441 Message: 10455

What I find interesting is the high frequency roll-off. In the before pictures the skirt of the filter is plainly visible. In the after it is off the scale.

OR is it just that the noise floor is that much lower as the frequency increases????

Clif

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Sports Fans:
>
> Very useful information.
>
> Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to
> before/after mod. at the bottom of the picture where it says View, click on
> large.
> Thanks Rick.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Rick
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 21, 2006 12:16 AM
> Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
> Analyzer -Before/After
>
>
> Hello All,
>
> Since I more or less started this push to install 1N5711 Shottky
> diodes after talking with Gordon on 20 meters a while back, I thought
> I would try and measure and/or display what exactly was happening with
> the receiver. Was the receiver actually quieter because of lower noise
> floor with the same sensitivity or was something else at work here.
> I have an absolutely stock 830S...Serial number 21XXXXX that I
> decided to do a before and after noise level test, (YK-88S1 2.7khz
> filter), swapping out the stock 1N60's with the Shottky 1N5711's. I
> used a shielded 50 ohm BNC terminator cap off of an old Novell network
> as my dummy load to reduce any stray signals. I then used the
> calibrate signal to tune a 1khz tone and the AF control to put it
> right on the 0dB level on the Spectrum Analyzer program I use. I then
> turned off the calibrate signal and let the analyzer program run

> simultaneous both a Free and an Average plot for 60 seconds in both
> tests. I only swapped out the four diodes in the product detector,
> added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other
> changes.We know all solid state devices generate noise. Some more than
> other. After the test I include the 1N60's in the very noisy class.
> In the jpeg, the blue is the free running audio and the red is the
> average. You will notice a very obvious spike at about 300hz on both
> graphs as a reference. There is a pretty dramatic difference. I am
> open to any ideas as make this a more accurate test. I loaded the
> resulting jpegs into the files section of the group.
>
> 73' Rick KC0HH
> Lamar, Colorado
>

10456. Re: [TS-520_820_530_830] Re: Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 15:11:26 UTC
From: Rick KC0HH
Topic: 10441 Message: 10456

Hi Clif,

After installing the 1N5711's, it is interesting that the lower freqs from 1khz down are virtually the same level while above 2khz the roll off is in the 10dB area as the frequency rises. . Are there any published noise figures of the 1N60 or diodes in general? It would appear they generate a lot of noise in the higher end of the spectrum. No wonder listening with headphones gave me a headache.
I wonder if I should pull the 100 ohm resistor off the LO to see how much of an effect it has.
The question I have for you is since the noise level is -60dB down from the reference tone I used, what is used as the reference to calculate noise floor. I see typical values of -138dBm etc....I don't know how accurate the program is I used but it is an interesting comparison.

73' Rick KC0HH

Clif <clif@...> wrote: What I find interesting is the high frequency roll-off. In the before
pictures the skirt of the filter is plainly visible. In the after it
is off the scale.

OR is it just that the noise floor is that much lower as the frequency
increases????

Clif

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Sports Fans:
>
> Very useful information.
>
> Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to
> before/after mod. at the bottom of the picture where it says View,
click on
> large.
> Thanks Rick.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Rick
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 21, 2006 12:16 AM
> Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum

> Analyzer -Before/After
>
>
> Hello All,
>
> Since I more or less started this push to install 1N5711 Shottky
> diodes after talking with Gordon on 20 meters a while back, I thought
> I would try and measure and/or display what exactly was happening with
> the receiver. Was the receiver actually quieter because of lower noise
> floor with the same sensitivity or was something else at work here.
> I have an absolutely stock 830S...Serial number 21XXXXX that I
> decided to do a before and after noise level test, (YK-88S1 2.7khz
> filter), swapping out the stock 1N60's with the Shottky 1N5711's. I
> used a shielded 50 ohm BNC terminator cap off of an old Novell network
> as my dummy load to reduce any stray signals. I then used the
> calibrate signal to tune a 1khz tone and the AF control to put it
> right on the 0dB level on the Spectrum Analyzer program I use. I then
> turned off the calibrate signal and let the analyzer program run
> simultaneous both a Free and an Average plot for 60 seconds in both
> tests. I only swapped out the four diodes in the product detector,
> added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other
> changes.We know all solid state devices generate noise. Some more than
> other. After the test I include the 1N60's in the very noisy class.
> In the jpeg, the blue is the free running audio and the red is the
> average. You will notice a very obvious spike at about 300hz on both
> graphs as a reference. There is a pretty dramatic difference. I am
> open to any ideas as make this a more accurate test. I loaded the
> resulting jpegs into the files section of the group.
>
> 73' Rick KC0HH
> Lamar, Colorado
>

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10457. Re: [TS-520_820_530_830] Re: Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 15:24:05 UTC
From: Rick KC0HH
Topic: 10441 Message: 10457

Hi Clif,

I need to re-phrase my question...instead of noise floor, I should have asked how is MDS calculated? What is used as a reference point as it is obvious that my noise level is -60dB down from my reference I used and there is no way I would hear a signal in the -138dB level.

73' Rick KC0HH

Clif <clif@...> wrote: What I find interesting is the high frequency roll-off. In the before
pictures the skirt of the filter is plainly visible. In the after it
is off the scale.

OR is it just that the noise floor is that much lower as the frequency
increases????

Clif

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Sports Fans:
>
> Very useful information.
>
> Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to
> before/after mod. at the bottom of the picture where it says View,
click on
> large.
> Thanks Rick.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Rick
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, October 21, 2006 12:16 AM
> Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
> Analyzer -Before/After
>
>
> Hello All,
>
> Since I more or less started this push to install 1N5711 Shottky
> diodes after talking with Gordon on 20 meters a while back, I thought

> I would try and measure and/or display what exactly was happening with
> the receiver. Was the receiver actually quieter because of lower noise
> floor with the same sensitivity or was something else at work here.
> I have an absolutely stock 830S...Serial number 21XXXXX that I
> decided to do a before and after noise level test, (YK-88S1 2.7khz
> filter), swapping out the stock 1N60's with the Shottky 1N5711's. I
> used a shielded 50 ohm BNC terminator cap off of an old Novell network
> as my dummy load to reduce any stray signals. I then used the
> calibrate signal to tune a 1khz tone and the AF control to put it
> right on the 0dB level on the Spectrum Analyzer program I use. I then
> turned off the calibrate signal and let the analyzer program run
> simultaneous both a Free and an Average plot for 60 seconds in both
> tests. I only swapped out the four diodes in the product detector,
> added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other
> changes.We know all solid state devices generate noise. Some more than
> other. After the test I include the 1N60's in the very noisy class.
> In the jpeg, the blue is the free running audio and the red is the
> average. You will notice a very obvious spike at about 300hz on both
> graphs as a reference. There is a pretty dramatic difference. I am
> open to any ideas as make this a more accurate test. I loaded the
> resulting jpegs into the files section of the group.
>
> 73' Rick KC0HH
> Lamar, Colorado
>

73' Rick KC0HH
Lamar, Colorado

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10458. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 15:48:19 UTC
From: Rick KC0HH
Topic: 10441 Message: 10458

Hi All,

As noisy as the 1N60's seem to be in the product detector, they are also used in filter selection as per the schematic. I am not sure if the 1N5711's will handle the current level in the I.F. chain but I think I will swap the 1N60's out today and re-sweep the noise level. Thanks to Gordon, I have enough 1N5711 diodes to 'kill' a few if it doesn't work. I have some 1N4148's to try if the Shottky's won't handle it.

73' Rick KC0HH

n9wb <n9wb@...> wrote: Sports Fans:

Very useful information.

Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to
before/after mod. at the bottom of the picture where it says View, click on
large.
Thanks Rick.

Vy 73, Walt N9WB

----- Original Message -----
From: Rick
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 12:16 AM
Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
Analyzer -Before/After

Hello All,

Since I more or less started this push to install 1N5711 Shottky
diodes after talking with Gordon on 20 meters a while back, I thought
I would try and measure and/or display what exactly was happening with
the receiver. Was the receiver actually quieter because of lower noise
floor with the same sensitivity or was something else at work here.
I have an absolutely stock 830S...Serial number 21XXXXX that I
decided to do a before and after noise level test, (YK-88S1 2.7khz
filter), swapping out the stock 1N60's with the Shottky 1N5711's. I
used a shielded 50 ohm BNC terminator cap off of an old Novell network
as my dummy load to reduce any stray signals. I then used the
calibrate signal to tune a 1khz tone and the AF control to put it
right on the 0dB level on the Spectrum Analyzer program I use. I then
turned off the calibrate signal and let the analyzer program run
simultaneous both a Free and an Average plot for 60 seconds in both
tests. I only swapped out the four diodes in the product detector,
added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other

changes.We know all solid state devices generate noise. Some more than other. After the test I include the 1N60's in the very noisy class. In the jpeg, the blue is the free running audio and the red is the average. You will notice a very obvious spike at about 300hz on both graphs as a reference. There is a pretty dramatic difference. I am open to any ideas as make this a more accurate test. I loaded the resulting jpegs into the files section of the group.

73' Rick KC0HH
Lamar, Colorado

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10459. Re: [TS-520_820_530_830] Re: Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 16:20:43 UTC
From: Peter A Markavage
Topic: 10441 Message: 10459

You could always build a simple diode noise generator test setup (diode, battery, pot)using a "reference diode" for a start, and then you can test any diodes for degree of noise when current is passed through them. We've used simple noise generators to set up VHF and UHF converters for years. Check any 60's or 70's Handbook for the simple circuit.

Pete, wa2cwa

On Sat, 21 Oct 2006 08:11:26 -0700 (PDT) Rick KC0HH <kc0hh@...> writes:
> Hi Clif,
>
> After installing the 1N5711's, it is interesting that the lower
> freqs from 1khz down are virtually the same level while above 2khz
> the roll off is in the 10dB area as the frequency rises. . Are there
> any published noise figures of the 1N60 or diodes in general? It
> would appear they generate a lot of noise in the higher end of the
> spectrum. No wonder listening with headphones gave me a headache.
> I wonder if I should pull the 100 ohm resistor off the LO to
> see how much of an effect it has.
> The question I have for you is since the noise level is -60dB
> down from the reference tone I used, what is used as the reference
> to calculate noise floor. I see typical values of -138dBm etc....I
> don't know how accurate the program is I used but it is an
> interesting comparison.
>
> 73' Rick KC0HH
>
>
>
>
> Clif <clif@...> wrote: What I
> find interesting is the high frequency roll-off. In the before
> pictures the skirt of the filter is plainly visible. In the after
> it
> is off the scale.
>
> OR is it just that the noise floor is that much lower as the
> frequency
> increases????
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...>

> wrote:
> >
> > Sports Fans:
> >
> > Very useful information.
> >
> > Go to the PHOTOS section of this group. Go to the folder KC0HH.
> Go to
> > before/after mod. at the bottom of the picture where it says
> View,
> click on
> > large.
> > Thanks Rick.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Rick
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, October 21, 2006 12:16 AM
> > Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
> > Analyzer -Before/After
> >
> >
> > Hello All,
> >
> > Since I more or less started this push to install 1N5711 Shottky
> > diodes after talking with Gordon on 20 meters a while back, I
> thought
> > I would try and measure and/or display what exactly was happening
> with
> > the receiver. Was the receiver actually quieter because of lower
> noise
> > floor with the same sensitivity or was something else at work
> here.
> > I have an absolutely stock 830S...Serial number 21XXXXX that I
> > decided to do a before and after noise level test, (YK-88S1
> 2.7khz
> > filter), swapping out the stock 1N60's with the Shottky 1N5711's.
> I
> > used a shielded 50 ohm BNC terminator cap off of an old Novell
> network
> > as my dummy load to reduce any stray signals. I then used the
> > calibrate signal to tune a 1khz tone and the AF control to put
> it
> > right on the 0dB level on the Spectrum Analyzer program I use. I
> then
> > turned off the calibrate signal and let the analyzer program run
> > simultaneous both a Free and an Average plot for 60 seconds in
> both

> > tests. I only swapped out the four diodes in the product
> detector,
> > added the 100 ohm resistor and peaked L19 and L20 for 600mV. No
> other
> > changes.We know all solid state devices generate noise. Some more
> than
> > other. After the test I include the 1N60's in the very noisy
> class.
> > In the jpeg, the blue is the free running audio and the red is
> the
> > average. You will notice a very obvious spike at about 300hz on
> both
> > graphs as a reference. There is a pretty dramatic difference. I
> am
> > open to any ideas as make this a more accurate test. I loaded
> the
> > resulting jpegs into the files section of the group.
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

10460. Re: VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 14:19:30 UTC
From: w5rkl
Topic: 10416 Message: 10460

Wally,

You said the VFO had a good output but the VFO output is not stable. By unstable, does the VFO output become unstable when you tune the VFO or is it unstable without tuning? Is the instability at any point throughout its rotation or in one spot? I've seen it both ways.

I've repaired alot of VFOs, LMOs, PTO, etc, that had instability in their output signals. Cleaning the tension spring contact point, 95% of the time, clears up the instability.

I agree with the others in that removing the VFO at this point may not be the best course of action. Look at the side of the VFO. There should be a small plate with 2 screws holding the plate to the VFO case. This allows access to the VFO capacitor shaft to clean the tension spring contact point without removing the VFO from the radio. Remove the side plate and give the tension spring a shot of DeoXit and rotate the VFO throughout its travel a couple of times. Repeat the procedure after a minute or two then wait a couple of minutes before powering up the VFO. Check the VFOs output. Is is stable now? It should be. I would also clean the RCA male plug with a shot of DeoXit then insert the plug into the female socket a couple of times.

Dirt accumulates over time and interrupts the continuity between the variable capacitor shaft and the capacitor frame, causing instability in the VFOs output signal.

If the VFO still exhibits some instability at certain points in the rotation then the use of a brush may be needed. A word of CAUTION is needed here. If you use a brush, extreme care MUST be used to prevent damaging the capacitor plates and surrounding components. Use only slight pressure and slow scrubbing action. It doesn't take much to get the dirt/corrision out. Again, use CAUTION when performing this task. I only use a brush when absolutely necessary. A childs tootbrush, soft bristles, is perfect for this. Do not use a stiff bristle brush! If there isn't room to do this, you can heat the point just below the bristle area on the brush and bend it to fit. Just take your time and use very little force and only slight back and forth scrubbing motion, three of four strokes are all that is needed to dislodge the dirty/corrosion.

73s

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w1ioo" <w1ioo@...> wrote:
>
> Thank you Bill and Mike. I looked at the output of the VFO and the
> sine wave was about 15mv p-p. The frequency was correct for the VFO
> output. It was not stable. I have a copy of the service manual and
> it shows how to take the VFO out. I also have a schmatic of it with
> voltage readings. Probably a transistor or two gone. Will dive into
> it this weekend. Will let you all know the results.
> Wally
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
> <k5gcw@> wrote:
> >
> > Wally.
> >
> > Mike just gave you some good analysis methods. Let me tell you
> about the problem I fixed on a VFO-520 last week. The 520 radio
> worked fine with it's internal vfo, but when I switched to the
> remote vfo, no receive signal was heard - just the residual noise
> from the audio output amp when the volume control was increased. I
> did testing with a scope and saw that the remote vfo had a very
> strong signal output (about 3.8Vp-p as I recall), so then I started
> tracing wires. I found two broken coax center leads - one in the
> interconnecting cable, and the other on the remote vfo socket inside
> the TS-520 radio. So I would recommend that you do some wire
> tracing before jumping off into something more serious. The solid
> center conductor of the coax cables Kenwood used are very fragile.
> Good Hunting.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: w1ioo
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Friday, October 20, 2006 8:56 AM
> > Subject: [TS-520_820_530_830] VFO on TS 820s not working
> >
> >
> > I am referbishing an 820s. The set receives with the external
> vf0-820
> > but not with the internal vfo. The vfo plug is in place and the
> 9
> > volts is present on plug of the vfo unit. Looking at pin 1 on
> the vfo
> > plug there is no signal with the internal vfo but present with
> the
> > external. Before I start to take the vfo appart Is there
> something
> > else I may have overlooked and not checked. Thank you all in
> advance.
> > Wally
> >

> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

10461. Re: [TS-520_820_530_830] TS520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 17:49:47 UTC
From: David Rust
Topic: 9304 Message: 10461

I think I told the group I had a 520SE I got from the usual marketplace. No transmit, it popped and spit and i thought blew a fuse. Didn't blow a fuse, I hooked it up today, receive works perfect on all bands. I can turn on the crystal calibrator and turn the bandswitch through all bands and they are all almost right on.

After looking at the bottom of the chassis, the usual smoke marks are around the bottom of the tube bases on the bottom of the board. So the usual resistors I think are gone as well as a couple finals. Doesn't look like a hard fix. Anyway, to me thats a lot easier than having to trouble shoot a receive problem. I'll keep the group informed.

Its amazing how well these receivers sound hooked to a good outboard speaker.

73 Dave W0DLR

[Non-text portions of this message have been removed]

10462. RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 19:01:31 UTC
From: Ron Hauser
Topic: 9948 Message: 10462

Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC line coming into the IF board (0.00v). Likewise 0v on the RF board connector #5 pin 1. Working back to Q1 on the RF board, 0 volts on this same lead, supposed to be 2.7v on the schematic. When you said you had a bad disk ceramic shorted to ground, was it the C45 right here? Unless a better recommendation appears I'll lift C45 and R12 to test...

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Tuesday, October 17, 2006 10:04 AM
To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

OK on the voltages ...I would pull the wire plug off of connector #15 on the IF board and check pin 3 on the plug. . This is the AGC line that brings the 2.9v onto the IF board. If it checks out for 2.9v then somethng on the IF board is dragging it down. If it is still 1.12v, than the problem is NOT on the IF board. The AGC line comes from the RF Board (connector # 5 pin 1). I am sending a shot of the RF board.... I had a bad disc ceramic capacitor one time that was shorted ...Drove me nuts until I finally found it.

The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and Q12 that you already checked. I would check the bypass caps off the transistors the AGC line goes to and C177 and C184 on the end leg of the AGC to the left of Q31

We having fun yet?

73' Rick KC0HH
Lamar, Colorado

Ron Hauser <eichmann@...> wrote:

Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I had
"almost" figured out that is where I want to look.

First I checked the TX/RX relay contacts, and gave them a cleaning with a
piece of paper and some Deoxit. It was looking very bright and shiny when I
opened it up, and I did not get a change in behavior.

Next I checked voltages around Q11, Q12. The supply to R73 and Q11 is 8.98v

(ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
nominal)
4.87v (4.8v specified). That seems pretty close. The two leads of
Q11 were
5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
a
problem.

I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
off
the board but all checked out within tolerance. Interesting note,
the
schematic has an error, it has R92 as a typo for R72, that was a
nice bit of
confusion.

I'm thinking that I'm onto something with the values around Q11 but
now I'm
back to poring over the schematic trying to decide where to go next.

BTW, When I go through the calibrate procedure for the S meter I
never get
more than S4 as the biggest peak on the calibrator signal.

Thanks for the help, and any more ideas will be welcome!

All-new Yahoo! Mail
<http://us.rd.yahoo.com/evt=43256/*http://advision.webevents.yahoo.com/mailb
eta> - Fire up a more powerful email and get things done faster.

10463. Re: L19-L20 Adjustment.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 22:20:36 UTC
From: w7cth
Topic: 10452 Message: 10463

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
>
> I need help clearing up some confusion. It has been posted that
> setting up L19 and L20 after the diode mod to 600mv is not the best
> way to do this.What would be the best way to set this up?After I did
> this mod the USB and LSB did not match so I Adj. them both to 600mv
> with the scope.
> I am a Vergo and a perfectionist and when thing are not right it drive
> me nuts.
> Chris W7CTH
>

10464. New Swap group for NE Illinois and SE Wisconsin

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 22:44:23 UTC
From: Robert S
Topic: 10464 Message: 10464

Click to join NE_Illinois_Online_Hamfest
(http://groups.yahoo.com/group/NE_Illinois_Online_Hamfest/join)
_____ Do You Yahoo!? Tired of spam? Yahoo!
Mail has the best spam protection around http://mail.yahoo.com

10465. TS-510 Power Supply Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 23:19:48 UTC
From: digs4ruff
Topic: 10247 Message: 10465

Hello all
My bag of replacement caps for the PS arrived today. The chassis is repainted and and the face is repainted. Re-assembly has begun. I am just curious about replacing the caps. The old ones had no leaks or shorts. They were just down about 50% in uFarads. Should I be replacing them as others have by hiding the new ones inside the old ones or should I simply be bridging the new ones in parallel to the old ones. By bridging I would end up with 150% of the original capacitance and I can't see where this would be detrimental in the filter caps.
TIA
Barry

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> David
> TVM
> Finally got to ordering the HV caps today and due to Digikeys minimum
> order requirement will be replacing all electrolytics in the power
> supply.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > The caps came from DigiKey. Part No. P7448-ND. If they don't have
> them Part No P7449-ND is the same thing. I got this informtion from a
> person on this list, however, I have lost his original email. After
> the caps arrived I deleted the original email. These replacements
> are 100uf 500 volt, however, they are physically smaller than the ones
> that are in there now. You will have to devise a way to take up the
> room for the chassis clamp to hold them. I used a piece of pipe
> insulation to put around them.
> > Dave
> >
> > [Non-text portions of this message have been removed]

> >
>

10466. Re: [TS-520_820_530_830] Re: L19-L20 Adjustment.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 23:28:53 UTC
From: Bill Scurlock
Topic: 10452 Message: 10466

Chris.

I finally went to the shop and got my TS-830S Service Manual (partial copy). If you will look in the adjustment section of this manual under Item #6, you will find the original procedure to adjust L19 and L20. In the AG6K procedure, item #11, Richard insinuates that the local-oscillator input level to the Product Detector is too high. He adds the 100 ohm resistor to terminate the input from the local-oscillator, and specifies that the voltage across this new 100 ohm resistor should be approximately 600MVp-p. Several of us that have made this modification are accepting that Richard somehow determined this level correctly. In Item #6 of the Service Manual, they specify that the voltage should be set at 0.3V as measured with an RF Probe on a VTVM connected to the short jumper near Connector #9 on the IF Board. If I am converting the 0.3V correctly to a Peak-to-Peak reading on a scope, the 0.3v is approximately 850MV. So Richard's 600MV represents about a 30% reduction in signal level. In both the Kenwood Service Manual and the AG6K procedure, they specify that the USB and LSB voltages be set equal to each other. I would have to have much fancier test equipment and more knowledge to determine for myself what the correct answer is. Walt has expressed some concern about the AG6K procedure, but I'm not smart enough to know who is correct - maybe both of them - just at different signal levels.

Anyway, I have done the AG6K procedure to one of my 830's, and to my ear everything is working fine. It is very tedious to set L19 and L20 for 600MV on LSB and USB, but it is do-able. It may be just as difficult to do this equalization when peaking the signal rather than limiting it to 600MV - I haven't tried it.

Maybe one of the other guys who have done this will give you some input also. Have fun, and let us know how it works out for you.

73, Bill, K5GCW
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 5:20 PM
Subject: [TS-520_820_530_830] Re: L19-L20 Adjustment.

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
>
> I need help clearing up some confusion. It has been posted that
> setting up L19 and L20 after the diode mod to 600mv is not the best
> way to do this.What would be the best way to set this up?After I did
> this mod the USB and LSB did not match so I Adj. them both to 600mv
> with the scope.
> I am a Vergo and a perfectionist and when thing are not right it drive
> me nuts.
> Chris W7CTH
>

[Non-text portions of this message have been removed]

10467. TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-21 23:27:21 UTC
From: digs4ruff
Topic: 10247 Message: 10467

Another re post of this question but I seem to have missed any reponses.
One of the diode rectifiers in the PS has been replaced. The originals are SE-05's and the replacement is a 1N4004. When I look both of these up on NTEs cross reference I get NTE116 as the cross reference. Can I assume that the 1N4004 is a substitute for the SE-05? All diodes check good with the Ohmeter but am wondering if the SE-05s should be replaced while the PS is dismantled.

Thanks
Barry

10468. Re: Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 00:04:07 UTC
From: Clif
Topic: 10441 Message: 10468

Measure the noise floor. Input a signal from a calibrated signal
generator to a level 3 db above the noise floor. That is MDS by the
ARRL method. It should be easy with the software you have as long as
you have the generator. As most generators will not go below -127 to
-130 you will need a step attenuator to dial in the low level.

Your 830 should have an MDS in the -135 to -140 range

Clif

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Clif,
>
> I need to re-phrase my question...instead of noise floor, I
should have asked how is MDS calculated? What is used as a
reference point as it is obvious that my noise level is -60dB down
from my reference I used and there is no way I would hear a signal in
the -138dB level.
>
> 73' Rick KC0HH
>
>
>
> Clif <clif@...> wrote: What I find
interesting is the high frequency roll-off. In the before
> pictures the skirt of the filter is plainly visible. In the after it
> is off the scale.
>
> OR is it just that the noise floor is that much lower as the frequency
> increases????
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Sports Fans:
> >
> > Very useful information.
> >
> > Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to
> > before/after mod. at the bottom of the picture where it says View,
> click on
> > large.
> > Thanks Rick.
> >

> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Rick
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Saturday, October 21, 2006 12:16 AM
> > Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
> > Analyzer -Before/After
> >
> >
> > Hello All,
> >
> > Since I more or less started this push to install 1N5711 Shottky
> > diodes after talking with Gordon on 20 meters a while back, I thought
> > I would try and measure and/or display what exactly was happening
with
> > the receiver. Was the receiver actually quieter because of lower
noise
> > floor with the same sensitivity or was something else at work here.
> > I have an absolutely stock 830S...Serial number 21XXXXX that I
> > decided to do a before and after noise level test, (YK-88S1 2.7khz
> > filter), swapping out the stock 1N60's with the Shottky 1N5711's. I
> > used a shielded 50 ohm BNC terminator cap off of an old Novell
network
> > as my dummy load to reduce any stray signals. I then used the
> > calibrate signal to tune a 1khz tone and the AF control to put it
> > right on the 0dB level on the Spectrum Analyzer program I use. I then
> > turned off the calibrate signal and let the analyzer program run
> > simultaneous both a Free and an Average plot for 60 seconds in both
> > tests. I only swapped out the four diodes in the product detector,
> > added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other
> > changes.We know all solid state devices generate noise. Some more
than
> > other. After the test I include the 1N60's in the very noisy class.
> > In the jpeg, the blue is the free running audio and the red is the
> > average. You will notice a very obvious spike at about 300hz on both
> > graphs as a reference. There is a pretty dramatic difference. I am
> > open to any ideas as make this a more accurate test. I loaded the
> > resulting jpegs into the files section of the group.
> >
> > 73' Rick KC0HH
> > Lamar, Colorado
> >
>
>
>
>
>
>
> 73' Rick KC0HH

> Lamar, Colorado
>
> ---------------------------------
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

10469. caps

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 00:58:44 UTC
From: Gary & Carrie Meyer
Topic: 10469 Message: 10469

I wouldn't bridge, twice as many to short ant two of them would be old.

KC0NPJ Gary

[Non-text portions of this message have been removed]

10470. Re: [TS-520_820_530_830] TS520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 02:34:46 UTC
From: Rich Jones
Topic: 9304 Message: 10470

A good pair of head phones also makes them sound terrific.

David Rust <dlrust@...> wrote: I think I told the group I had a 520SE I got from the usual marketplace. No transmit, it popped and spit and i thought blew a fuse. Didn't blow a fuse, I hooked it up today, receive works perfect on all bands. I can turn on the crystal calibrator and turn the bandswitch through all bands and they are all almost right on.

After looking at the bottom of the chassis, the usual smoke marks are around the bottom of the tube bases on the bottom of the board. So the usual resistors I think are gone as well as a couple finals. Doesn't look like a hard fix. Anyway, to me thats a lot easier than having to trouble shoot a receive problem. I'll keep the group informed.

Its amazing how well these receivers sound hooked to a good outboard speaker.

73 Dave W0DLR

[Non-text portions of this message have been removed]

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10471. Re: [TS-520_820_530_830] Re: L19-L20 Adjustment.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 02:35:00 UTC
From: Chris HEmbree
Topic: 10452 Message: 10471

Ok well I am all set then, I have a scope and it was set for 600mvp-p for USB and LSB.
Thank you for the input.
Chris.

Bill Scurlock <k5gcw@...> wrote: Chris.

I finally went to the shop and got my TS-830S Service Manual (partial copy). If you will look in the adjustment section of this manual under Item #6, you will find the original procedure to adjust L19 and L20. In the AG6K procedure, item #11, Richard insinuates that the local-oscillator input level to the Product Detector is too high. He adds the 100 ohm resistor to terminate the input from the local-oscillator, and specifies that the voltage across this new 100 ohm resistor should be approximately 600MVp-p. Several of us that have made this modification are accepting that Richard somehow determined this level correctly. In Item #6 of the Service Manual, they specify that the voltage should be set at 0.3V as measured with an RF Probe on a VTVM connected to the short jumper near Connector #9 on the IF Board. If I am converting the 0.3V correctly to a Peak-to-Peak reading on a scope, the 0.3v is approximately 850MV. So Richard's 600MV represents about a 30% reduction in signal level. In both the Kenwood Service Manual and the AG6K procedure, they specify that the USB and LSB voltages be set equal to each other. I would have to have much fancier test equipment and more knowledge to determine for myself what the correct answer is. Walt has expressed some concern about the AG6K procedure, but I'm not smart enough to know who is correct - maybe both of them - just at different signal levels.

Anyway, I have done the AG6K procedure to one of my 830's, and to my ear everything is working fine. It is very tedious to set L19 and L20 for 600MV on LSB and USB, but it is do-able. It may be just as difficult to do this equalization when peaking the signal rather than limiting it to 600MV - I haven't tried it.

Maybe one of the other guys who have done this will give you some input also. Have fun, and let us know how it works out for you.

73, Bill, K5GCW
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 5:20 PM
Subject: [TS-520_820_530_830] Re: L19-L20 Adjustment.

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
>
> I need help clearing up some confusion. It has been posted that
> setting up L19 and L20 after the diode mod to 600mv is not the best
> way to do this.What would be the best way to set this up?After I did
> this mod the USB and LSB did not match so I Adj. them both to 600mv
> with the scope.

> I am a Vergo and a perfectionist and when thing are not right it drive
> me nuts.
> Chris W7CTH
>

[Non-text portions of this message have been removed]

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10472. Re: [TS-520_820_530_830] new to group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 03:22:14 UTC
From: John Harp
Topic: 10332 Message: 10472

There's two in the group got a phone patch.Chris and Reuben. By the way, thanks for the links to the BAMA Reuben. I found part of my cable questions for the TV-502 transverter. I want to eventually get a TV-506 too.

Ruben Echevarria <ka2hhb_2000@...> wrote: I use an MFJ492 keyer with my TS830S ......

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Chris HEmbree <w7cth@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 19, 2006 12:22:13 AM
Subject: Re: [TS-520_820_530_830] new to group

Welcome to the group.
I just picked up a 830s about 3 weeks ago and did a few mods from the group. The radio works great and is back on the air.
Just dig in and learn and have fun..
Chris W7CTH

John Harp <ka3dpw@yahoo. com> wrote: Greetings and welcome to the group. Wish you well with the 520. What's it's wattage out put been like. Tell us that first.
As for the keying there are two basic types of keying. Your 520's manual tells you which type of keying you will need to use. Most keyers are capable of both types of keying. Most tube gear goes with the one type of keying and solid state generally goes with the other. As the messages come to greet you someone will probably have an answer for you. I own TS-830 and my name is John.

cpitre_01 <cpitre_01@yahoo. com> wrote:
Hello all,

I am new to the group and I am lucky enough to own a ts 520. I
actually have almost a complete station, that includes the 520, the
at200 tuner, the sp520 speaker, the vfo 520, the TS 520, mc50 mic and
a pc1a phone patch. I purchased it off another Ham who was
downsizing. Any way I have a couple of questions.

Could I connect a keyer to this radio so I can use an iambic paddle?
If so is there a specific model I should get.

And when should I think about replacing the tubes, I don't know if the
tubes in the radio are original.

Thanks all
Chris

VE3CTP

------------ --------- --------- ---
All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

------------ --------- --------- ---
Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10473. Re: [TS-520_820_530_830] TS-510 Power Supply Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 04:53:13 UTC
From: Max Harelik
Topic: 10247 Message: 10473

"Should I be replacing (the filter capacitors) as others have by hiding the new ones inside the old ones or should I simply be bridging the new ones in parallel to the old ones." <snip>

Get the old ones out of the circuit. I wouldn't take the chance. Remember, they're old and cranky, and can smoke for no particular reason, whether or not new ones are bridged in. I've got a 530 sitting on the bench with significant damage (including the pwr xfmr) due to zorched caps.

73,
Max, K5OVW

10474. Re: [TS-520_820_530_830] TS-510 Power Supply Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 08:04:13 UTC
From: n9wb
Topic: 10247 Message: 10474

I would replace the olde caps with the new ones but not bother to place them in the old shells. The olde weak ones could short.
Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:19 PM
Subject: [TS-520_820_530_830] TS-510 Power Supply Restoration

Hello all
My bag of replacement caps for the PS arrived today. The chassis is repainted and and the face is repainted. Re-assembly has begun. I am just curious about replacing the caps. The old ones had no leaks or shorts. They were just down about 50% in uFarads. Should I be replacing them as others have by hiding the new ones inside the old ones or should I simply be bridging the new ones in parallel to the old ones. By bridging I would end up with 150% of the original capacitance and I can't see where this would be detrimental in the filter caps.
TIA
Barry

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> David
> TVM
> Finally got to ordering the HV caps today and due to Digikeys minimum
> order requirement will be replacing all electrolytics in the power
> supply.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> wrote:
> >
> > The caps came from DigiKey. Part No. P7448-ND. If they don't have
> them Part No P7449-ND is the same thing. I got this informtion from a
> person on this list, however, I have lost his original email. After
> the caps arrived I deleted the original email. These replacements

> are 100uf 500 volt, however, they are physically smaller than the
ones
> that are in there now. You will have to devise a way to take up
the
> room for the chassis clamp to hold them. I used a piece of pipe
> insulation to put around them.
> > Dave
> >
> > [Non-text portions of this message have been removed]
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10475. Re: [TS-520_820_530_830] Re: L19-L20 Adjustment.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 09:25:07 UTC
From: n9wb
Topic: 10452 Message: 10475

Bill K5GCW:

Thank you for telling us where this procedure is in the service manual. I looked quickly the other morning and could not find it.

The procedure for setting L19 and L20 specifies using an RF VTVM. I would consider a VTVM with an RF probe such a device.

It shows to adjust L-19 and L-20 for maximum.

Note L-20 the slug of L 20 should be adjusted while turning it counterclockwise.

The next step is:
If the voltage is outside of the specified limit, adjust L-19 and L-20 until the voltage is .3 volts on both USB and LSB.

The.3 volt specification is given a tolerance of +/- 1 dB. This would mean that it should fall in between .267 V (267 mV) and .337 9337 mV).

It does not state whether this is RMS. or P/P. However since it specifies an RF VTVM I would expect it to be RMS.

On a scope, you would be seeing P/P between the =/- cycle peaks.
.3V (300 mV) will = .848V or (848 mV) P/P.

AK6K specifies 600 mV.P/P. This would be 212 mV RMS.

Note by mV I mean millivolts not microvolts.

.....
My (N9WB) comments, NOT meant as gospel and subject to change if confused by facts..

Note L-20 the slug of L 20 should be adjusted while turning it counterclockwise.:
I would interpret that to mean that after peaking L-20 the slug should be detuned clockwise and then brought back to the exact peak by turning it counter clock wise.

I don't know what to make of the levels. I can't help but wonder what would happen if we peaked L 19 and L-20 for maximum receive of a weak signal ?

Or what would happen if we peaked L-19 and L-20 for maximum RF voltage and then touched them up for equal voltage on each sideband.

Perhaps somebody can experiment with these coils and see what effect the level has on weak signal reception. Since these act as a bandpass filter, it bothers me to see them detuned too much.

Vy 73, Walt N9WB

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:28 PM
Subject: Re: [TS-520_820_530_830] Re: L19-L20 Adjustment.

Chris.

I finally went to the shop and got my TS-830S Service Manual (partial copy). If you will look in the adjustment section of this manual under Item #6, you will find the original procedure to adjust L19 and L20. In the AG6K procedure, item #11, Richard insinuates that the local-oscillator input level to the Product Detector is too high. He adds the 100 ohm resistor to terminate the input from the local-oscillator, and specifies that the voltage across this new 100 ohm resistor should be approximately 600MVp-p. Several of us that have made this modification are accepting that Richard somehow determined this level correctly. In Item #6 of the Service Manual, they specify that the voltage should be set at 0.3V as measured with an RF Probe on a VTVM connected to the short jumper near Connector #9 on the IF Board. If I am converting the 0.3V correctly to a Peak-to-Peak reading on a scope, the 0.3v is approximately 850MV. So Richard's 600MV represents about a 30% reduction in signal level. In both the Kenwod Service Manual and the AG6K procedure, they specify that the USB and LSB voltages be set equal to each other. I would have to have much fancier test equipment and more knowledge to determine for myself what the correct answer is. Walt has expressed some concern about the AG6K procedure, but I'm not smart enough to know who is correct - maybe both of them - just at different signal levels.

Anyway, I have done the AG6K procedure to one of my 830's, and to my ear everything is working fine. It is very tedious to set L19 and L20 for 600MV on LSB and USB, but it is do-able. It may be just as difficult to do this equalization when peaking the signal rather than limiting it to 600MV - I haven't tried it.

Maybe one of the other guys who have done this will give you some input also. Have fun, and let us know how it works out for you.

73, Bill, K5GCW
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 5:20 PM
Subject: [TS-520_820_530_830] Re: L19-L20 Adjustment.

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
>
> I need help clearing up some confusion. It has been posted that
> setting up L19 and L20 after the diode mod to 600mv is not the best
> way to do this.What would be the best way to set this up?After I did
> this mod the USB and LSB did not match so I Adj. them both to 600mv

> with the scope.
> I am a Vergo and a perfectionist and when thing are not right it drive
> me nuts.
> Chris W7CTH
>

10476. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 09:30:52 UTC
From: n9wb
Topic: 10441 Message: 10476

Rick:

Would you like to play around and see what affect the level across the resistor has on the S/n Ratio?

Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 2:18 AM
Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Sports Fans:

Very useful information.

Go to the PHOTOS section of this group. Go to the folder KC0HH. Go to
before/after mod. at the bottom of the picture where it says View, click on
large.
Thanks Rick.

Vy 73, Walt N9WB

----- Original Message -----
From: Rick
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 12:16 AM
Subject: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
Analyzer -Before/After

Hello All,

Since I more or less started this push to install 1N5711 Shottky
diodes after talking with Gordon on 20 meters a while back, I thought
I would try and measure and/or display what exactly was happening with
the receiver. Was the receiver actually quieter because of lower noise
floor with the same sensitivity or was something else at work here.
I have an absolutely stock 830S...Serial number 21XXXXX that I
decided to do a before and after noise level test, (YK-88S1 2.7khz
filter), swapping out the stock 1N60's with the Shottky 1N5711's. I
used a shielded 50 ohm BNC terminator cap off of an old Novell network
as my dummy load to reduce any stray signals. I then used the
calibrate signal to tune a 1khz tone and the AF control to put it
right on the 0dB level on the Spectrum Analyzer program I use. I then
turned off the calibrate signal and let the analyzer program run

simultaneous both a Free and an Average plot for 60 seconds in both tests. I only swapped out the four diodes in the product detector, added the 100 ohm resistor and peaked L19 and L20 for 600mV. No other changes.We know all solid state devices generate noise. Some more than other. After the test I include the 1N60's in the very noisy class. In the jpeg, the blue is the free running audio and the red is the average. You will notice a very obvious spike at about 300hz on both graphs as a reference. There is a pretty dramatic difference. I am open to any ideas as make this a more accurate test. I loaded the resulting jpegs into the files section of the group.

73' Rick KC0HH
Lamar, Colorado

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.8/489 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10477. Re: [TS-520_820_530_830] Re: L19-L20 Adjustment.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 09:50:35 UTC
From: n9wb
Topic: 10452 Message: 10477

Please see my further post on this subject. We found the procedure in the service manual. If I had seen this, I probably would not have made such of an issue about this.

Perhaps some people can experiment and see what effect this has on the sensitivity and signal/noise ratio. I do not like to see a bandpass filter detuned too far.

Sometimes I worry too much. I am a Taurus and am just too stubborn to do something in a way that I do not fully understand.

Walt N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 5:20 PM
Subject: [TS-520_820_530_830] Re: L19-L20 Adjustment.

--- In TS-520_820_530_830@yahoogroups.com, "w7cth" <w7cth@...> wrote:
>
>
> I need help clearing up some confusion. It has been posted that
> setting up L19 and L20 after the diode mod to 600mv is not the best
> way to do this.What would be the best way to set this up?After I did
> this mod the USB and LSB did not match so I Adj. them both to 600mv
> with the scope.
> I am a Vergo and a perfectionist and when thing are not right it drive
> me nuts.
> Chris W7CTH
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10478. Re: [TS-520_820_530_830] TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 11:02:26 UTC
From: n9wb
Topic: 10247 Message: 10478

I would get hold of Mouser and replace all of the diodes on the rectifier board with 1000V at 2 amp diodes. If they don't have them go for 1000 v 1.5 or 1 amp.
Also, probably on the HV board there are some resistors in series with the screen grid voltage source. Check these and replace if necessary. If this rig has 10 ohm 1 watt cathode resistors like some of the others do, replace them but use only 1 watt or whatever the originals were. I don't have a diagram for the 510. Never heard of it before you got yours. Good find!

Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 21, 2006 6:27 PM
Subject: [TS-520_820_530_830] TS-510 Restoration

Another re post of this question but I seem to have missed any reponses.
One of the diode rectifiers in the PS has been replaced. The originals are SE-05's and the replacement is a 1N4004. When I look both of these up on NTEs cross reference I get NTE116 as the cross reference. Can I assume that the 1N4004 is a substitute for the SE-05? All diodes check good with the Ohmeter but am wondering if the SE-05s should be replaced while the PS is dismantled.

Thanks
Barry

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10479. Re: TS-510 Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 11:33:24 UTC
From: digs4ruff
Topic: 10247 Message: 10479

Walt
Thanks
I think I will replace all the electrolytics in the PS. As much as possible I will leave the originals physically in place for appearance only and simply mount the new ones under the chassis.
I will replace all diodes in the PS with 1N5408 1000V 3A as I just happen to have a pack of 50 in the tool kit. I also have a pack of 50 1N4007 1000V 1A if there is any advantage to using them.
I have uploaded the TS-510 & PS-510 schematics to the Manuals section and await further guidance on the resistors. BTW the files section is full again.
best regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I would get hold of Mouser and replace all of the diodes on the rectifier board with 1000V at 2 amp diodes. If they don't have them go for 1000 v 1.5 or 1 amp.
> Also, probably on the HV board there are some resistors in series with the screen grid voltage source. Check these and replace if necessary. If this rig has 10 ohm 1 watt cathode resistors like some of the others do, replace them but use only 1 watt or whatever the originals were. I don't have a diagram for the 510. Never heard of it before you got yours. Good find!
>
> Vy 73, Walt N9WB

10480. Trade

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 12:56:37 UTC
From: digs4ruff
Topic: 10480 Message: 10480

What I have is as follows:
one Motorola Radius P1225 mdl-P94ZRC90C2AA FCC-ABZ99FT4073
one Motorola HT750-LS MDL-aah25rdc9du3an fcc-az489ft4826
two Motorola HMN9725D speaker microphones. I think these are for P1225.
one Telex EM200 Someone has written MT500 on the box.
Each radio has a battery with enough residual chaqrge to turn them on
but I have no chargers. They are both 16 channels.

Is anyone interested in a trade for HAM equipment, prefer HF. I am
most interested in Kenwood Hybrids but will consider any offer.
Shipping cost will be factored in so the closer to the west coast the
better.
regards
Barry

10481. TS-820 FIX VOX X50-1150-00 board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 13:43:19 UTC
From: w5rkl
Topic: 10481 Message: 10481

Morning Group,

I'm looking for a FIX VOX X50-1150-00 board for a TS-820. If anyone has one that is working please let me know including price plus shipping.

Thanks and 73's

Mike
W5RKL

10482. Re: TS-510 Power Supply Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 15:09:04 UTC
From: Ellen R
Topic: 10247 Message: 10482

Hi Barry,

Like everyboy's said, why take a chance, relace the old ones. As for putting the new ones in the shells of the old ones - you probably know as well as I do, that it's done mainly for cosmetic reasons, to make the internals look original. Do you want to go to the hassle of cleaning out the old power supply electrolytic shells, so you can put the new caps inside of them, so the 510 "looks original?" Realize that it may be messy, and some of the caps may be oil filled or PCB filled.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Hello all
> My bag of replacement caps for the PS arrived today. The chassis is
> repainted and and the face is repainted. Re-assembly has begun. I am
> just curious about replacing the caps. The old ones had no leaks or
> shorts. They were just down about 50% in uFarads. Should I be
> replacing them as others have by hiding the new ones inside the old
> ones or should I simply be bridging the new ones in parallel to the
> old ones. By bridging I would end up with 150% of the original
> capacitance and I can't see where this would be detrimental in the
> filter caps.
> TIA
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > David
> > TVM
> > Finally got to ordering the HV caps today and due to Digikeys
> minimum
> > order requirement will be replacing all electrolytics in the
power
> > supply.
> > regards
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "David Rust" <dlrust@>
> > wrote:

> > >
> > > The caps came from DigiKey. Part No. P7448-ND. If they don't
> have
> > them Part No P7449-ND is the same thing. I got this informtion
> from a
> > person on this list, however, I have lost his original email.
> After
> > the caps arrived I deleted the original email. These
> replacements
> > are 100uf 500 volt, however, they are physically smaller than the
> ones
> > that are in there now. You will have to devise a way to take up
> the
> > room for the chassis clamp to hold them. I used a piece of pipe
> > insulation to put around them.
> > > Dave
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

10483. Re: [TS-520_820_530_830] Re: TS-510 Power Supply Restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 15:18:09 UTC
From: David Rust
Topic: 10247 Message: 10483

Barry, the gentleman on here that gave me the DigiKey parts numbers gave me this suggestion. Wrap the new capacitors with some pipe insultation like that used on air conditioner piping. Just a small piece at the base of them under the clamp will work.

I am sorry I lost his name from my emails. This was his suggestion how to do it, and it works great. You can find a piece of insulation just the right size to fill the void.
73 Dave W0DLR

[Non-text portions of this message have been removed]

10484. TS 520 pot

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 15:29:36 UTC
From: PERRY
Topic: 10484 Message: 10484

I have a TS 520 that I have been working on for no TX
On the Filter ckt board near the outside edge is a 4 lug term strip
that has a blue wire on one end -a 3.3k resistor to a var Pot (? value)
and a Red wire on the other end.. This is not in any of the Books or
manuals I have.. THe blue wire has a minus 5.54 volts on it and goes
to the TBL tab on the RF board. the red wire has +9 volts on -only in
the Send mode.. Any One have a Clue what this ckt is ??
the ends of the red and blue wires are wire wrapped like a factor done
thing...
Perry
Gaines Michigan WA8THK AT YAHOO. COM

10485. TS 520 no tx--REPAIRED

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 16:52:35 UTC
From: PERRY
Topic: 10485 Message: 10485

OK
it lives again..

was using the SERVICE manual
Switched to the owners manual and it gave more repair detail
voltage chart... traced to a ckt that I dont know what it is for..
on the left side of the Filter ckt board is a pot var resistor and
fixed resistor. its on a 4 lug term strip. the POT was cracked got my
voltage switching back and radio working ---
no where do I find what this pot is for ....

Perry

10486. Re: [TS-520_820_530_830] TS 520 no tx--REPAIRED

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 17:45:10 UTC
From: John Harp
Topic: 10485 Message: 10486

was it the SG switch circuit? For neutralizing the tubes?

PERRY <wa8thk@...> wrote: OK
it lives again..

was using the SERVICE manual
Switched to the owners manual and it gave more repair detail
voltage chart... traced to a ckt that I dont know what it is for..
on the left side of the Filter ckt board is a pot var resistor and
fixed resistor. its on a 4 lug term strip. the POT was cracked got my
voltage switching back and radio working ---
no where do I find what this pot is for ....

Perry

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10487. Re: [TS-520_820_530_830] TS-820 FIX VOX X50-1150-00 board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 19:34:01 UTC
From: jsloss
Topic: 10481 Message: 10487

Are you looking to buy or to borrow so you can fix yours?

Joe----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 22, 2006 6:43 AM
Subject: [TS-520_820_530_830] TS-820 FIX VOX X50-1150-00 board

Morning Group,

I'm looking for a FIX VOX X50-1150-00 board for a TS-820. If anyone
has one that is working please let me know including price plus shipping.

Thanks and 73's

Mike
W5RKL

[Non-text portions of this message have been removed]

10488. 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 19:57:23 UTC
From: w7cth
Topic: 10481 Message: 10488

After I did a few mods and a good cleaning with Deox-it. I have 3 bands dead. 1.5,18,28. No display. Only mods I did was c106,and the diodes on the IF board. I did not see anything unpluged. I have the serice Man. but not sure were to start.
Help Please
Chris..

10489. Re: [TS-520_820_530_830] 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 21:45:30 UTC
From: John Harp
Topic: 10481 Message: 10489

Chris my suggestion to you is to go along like you would cleaning your conectors on all the boards and check each one as you go. Make sure each one is connected properly and in it's correct place. Obviously you've cleaned the conacts, but it will eliminate the possibility of a wrong connection to and from each board. That's where I'd start. It's a longer process, but it's a good insurance for that portion of the project by eliminating that much. You might see something else as you go. Take a break before you start separate yourself from the radio with a little time. Let your mind clear and go again later; do it in breaks. A little here a little there. You might see something passing by to something else. I works for me and it has been recomended by others.
Later look at all solder joints with a magnifying glass. Good joints are important as you know at RF. that's my suggestion.

w7cth <w7cth@...> wrote:
After I did a few mods and a good cleaning with Deox-it. I have 3
bands dead. 1.5,18,28. No display. Only mods I did was c106,and the
diodes on the IF board. I did not see anything unpluged. I have the
serice Man. but not sure were to start.
Help Please
Chris..

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10490. Re: TS-820 FIX VOX X50-1150-00 board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 21:45:19 UTC
From: w5rkl
Topic: 10481 Message: 10490

Hi Joe,

I've been working on my 820, the receive died a couple of weeks or so ago. It all started when the two 10 resistors under the final smoked after replacing the final tubes. Once fixed, the transmitter worked fine but receive sensitivity was way down by 30 to 35db. Calibrator signal was barely readable. I keyed the transmitter again to ensure it was still working into the dummy load and when returning to receive mode, nothing, not a peep from the calibrator and the entire receive was dead.

I cleaned every contact, every switch contact and ensure there were not any burnt and/or broken wires laying loose. All frequency generating circuits such as VCO, Hetrodyne and carrier oscillators plus the VFO are working fine. I've looked at all of them, including the VFO, and they all look good and stable. The digital display shows a solid frequency and changes up and down in frequency by turning the main tuning knob. There is no instability in any of the frequency generating circuits, they all work as designed.

Last week, I injected an 8.830Mhz signal into RIF (Receive IF) pin 1 on the IF board but nothing heard. I figured, at that point, possibly a failed transistor in the IF chain. That was incorrect. I went back to the RF amp board, traced the signal through and still no receive. At that point I thought "All of the transistors couldn't have failed", something I later found out to be a correct assumption, none of them failed, they all work, including the RF and IF system through to the speaker. I know the audio stage is working since I could hear myself through the internal speaker with the MON switch ON. All voltages are within specs.

The other day while cleaning the function switch, I notice if I placed the function switch midway between VFO and VFO R, the receiver worked fine but no transmit. That eliminated the IF, RF amp, all frequency generating circuits as being possible suspected failed circuits. It lead me to believe that possibly the function had failed in one of the sections. Yesterday, I remove the function switch, cleaned it with DeoXit and checked each section, nothing found to be bad. All sections worked as they should and I did not see any broken or pinched wires plus no shorts that shouldn't be there. That eliminated the function switch. I cleaned every plug to every circuit card with no improvement, still dead receiver. With the function switch in the VFO position, correct freqency is indicated on the digital read out and no irregularities when tuning, smooth output on the scope and very stable.

This morning, I was checking connections and pulled the FIX-3 plug from the FIX VOX board, made sure the function switch was in VFO position, not midway between VFO and VFO R, powered up the 820 and noticed the receive came back, somewhat. Although I could hear the calibrator, the bandpass appeared to be very narrow, somewhere around 150hz or less in USB. Placing the mode switch in LSB made the bandpass was much more narrow, something on the order of 120 or less Hz. The 820 does have the CW filter installed so I checked the RIT and IF Shift adjustment on the front panel. Both were in their normal mid position so that wasn't the reason for the narrow bandpass. The ATTEN switch was also checked, it was OFF. This switch was checked previously to ensure it wasn't bad, it checked ok.

Reviewing the schematic in the service manual, it is confusing to know what the 1, 2 or 3 letter designation assigned to each pin on each board are. Some are easy to figure out but other are a guessing game as to what they are and for what purpose they serve.

Since everything else is working, the FIX VOX board appears to be the only possible failure at this point. I do not have access to another 820 to do comparisons. Something is possbily shutting down the IF and/or RF boards and I can't seem to find it. All voltages are good so it's not a voltage source problem. A control signal or control voltage is what I feel is causing the problem. I have not changed any transistors, only some electrolytics on the FIX VOX board. Everything else on the 820 is working properly. If I had another board I could swap and do some voltage checks against the failed board which would give me a much better idea of what is wrong. Since the service manual only has voltages at the some transistors, most of which I can not read. Most voltage indications on the schematics too dark or beyond recognition because of the copy resolution. The manual on Bama is the same except much worse.

As I said, with the function switch midway between VFO and VFO R, the receiver works great. Why the receiver dies in VFO position on the function switch has me stumped.

Do you have a FIX VOX board you would be willing to sell? If so what would you be asking for the board including shipping to zip code 74953?

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> Are you looking to buy or to borrow so you can fix yours?
>
> Joe----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, October 22, 2006 6:43 AM

> Subject: [TS-520_820_530_830] TS-820 FIX VOX X50-1150-00 board
>
>
> Morning Group,
>
> I'm looking for a FIX VOX X50-1150-00 board for a TS-820. If anyone
> has one that is working please let me know including price plus
shipping.
>
> Thanks and 73's
>
> Mike
> W5RKL
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

10491. Re: [TS-520_820_530_830] 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 22:23:03 UTC
From: Ruben Echevarria
Topic: 10481 Message: 10491

By any chance did you also clean the bandswitch?
Also check the connector towards the right front of the IF board.
I had an issue with mine and had to resolder it. While I was it I
also redid the rest of the connecors.
Another thing check the coupler that connects the bandswitch to the shaft
for cracks. It may be misaligned. Replace if necessary with one from K4EAA.
The replacement is brass the original is plastic and is prone to cracking.

Keep us posted ..... Ruben ..KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: w7cth <w7cth@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 22, 2006 3:57:23 PM
Subject: [TS-520_820_530_830] 3 bands dead

After I did a few mods and a good cleaning with Deox-it. I have 3
bands dead. 1.5,18,28. No display. Only mods I did was c106,and the
diodes on the IF board. I did not see anything unpluged. I have the
serice Man. but not sure were to start.
Help Please
Chris..

[Non-text portions of this message have been removed]

10492. Re: [TS-520_820_530_830] 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 22:47:48 UTC
From: Chris HEmbree
Topic: 10481 Message: 10492

I cleaned the the band switch with deoxit and twisted the band switch back and forth at the same time. I did not know that I had 3 bands out unitll today. I only talk on 40 and 20. I am going to check all the connectors. I had the IF board out 2 time doing the mods. I did not clean the conectors when I did my cleaning.
Thanks Guy
Good place to start.
I just made a good radio bad.
Chris
Ruben Echevarria <ka2hhb_2000@...> wrote: By any chance did you also clean the bandswitch?
Also check the connector towards the right front of the IF board.
I had an issue with mine and had to resolder it. While I was it I
also redid the rest of the connecors.
Another thing check the coupler that connects the bandswitch to the shaft
for cracks. It may be misaligned. Replace if necessary with one from K4EAA.
The replacement is brass the original is plastic and is prone to cracking.

Keep us posted ..... Ruben ..KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: w7cth <w7cth@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 22, 2006 3:57:23 PM
Subject: [TS-520_820_530_830] 3 bands dead

After I did a few mods and a good cleaning with Deox-it. I have 3
bands dead. 1.5,18,28. No display. Only mods I did was c106,and the
diodes on the IF board. I did not see anything unpluged. I have the
serice Man. but not sure were to start.
Help Please
Chris..

[Non-text portions of this message have been removed]

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10493. Re: TS 520 no tx--REPAIRED

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-22 22:51:13 UTC
From: PERRY
Topic: 10485 Message: 10493

No it had a 1kc pot hooked from a +9 volt supply on the rf board and
routed up to a term strip on the Filter bd along the edge by the
option filter and a 47k fixed resistor and going to a spot on the
Filter bd point TBL .. This puts a minus 5.6 volts on one of the
Gates of Q2 the tx mixer Fet.in Receive and on TX it +1.8 that is
needed = I dont see this documanted in any of the Manuals and
Schematic s I have.. ???
The little Pot was broken but with it soldered in it looked ok.
Until I unsoldered it all is History now replaced it and bingo
another Good working TS 520
Perry
WA8THK
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> was it the SG switch circuit? For neutralizing the tubes?
>
> PERRY <wa8thk@...> wrote: OK
> it lives again..
>
> was using the SERVICE manual
> Switched to the owners manual and it gave more repair detail
> voltage chart... traced to a ckt that I dont know what it is for..
> on the left side of the Filter ckt board is a pot var resistor and
> fixed resistor. its on a 4 lug term strip. the POT was cracked got
my
> voltage switching back and radio working ---
> no where do I find what this pot is for ....
>
> Perry
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

10494. Re: [TS-520_820_530_830] Re: TS 520 no tx--REPAIRED

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 00:19:44 UTC
From: John Harp
Topic: 10485 Message: 10494

Hey you got it working that's good tnx. I didn't realize you were on a 520.

PERRY <wa8thk@...> wrote: No it had a 1kc pot hooked from a +9 volt supply on the rf board and
routed up to a term strip on the Filter bd along the edge by the
option filter and a 47k fixed resistor and going to a spot on the
Filter bd point TBL .. This puts a minus 5.6 volts on one of the
Gates of Q2 the tx mixer Fet.in Receive and on TX it +1.8 that is
needed = I dont see this documanted in any of the Manuals and
Schematic s I have.. ???
The little Pot was broken but with it soldered in it looked ok.
Until I unsoldered it all is History now replaced it and bingo
another Good working TS 520
Perry
WA8THK
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> was it the SG switch circuit? For neutralizing the tubes?
>
> PERRY <wa8thk@...> wrote: OK
> it lives again..
>
> was using the SERVICE manual
> Switched to the owners manual and it gave more repair detail
> voltage chart... traced to a ckt that I dont know what it is for..
> on the left side of the Filter ckt board is a pot var resistor and
> fixed resistor. its on a 4 lug term strip. the POT was cracked got
my
> voltage switching back and radio working ---
> no where do I find what this pot is for ....
>
> Perry
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Get on board. You're invited to try the new Yahoo! Mail.
>
> [Non-text portions of this message have been removed]
>

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10495. Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 02:13:24 UTC
From: max_ve3tmt
Topic: 10481 Message: 10495

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> I cleaned the the band switch with deoxit and twisted the band
switch back and forth at the same time. I did not know that I had 3
bands out unitll today. I only talk on 40 and 20. I am going to check
all the connectors. I had the IF board out 2 time doing the mods. I
did not clean the conectors when I did my cleaning.
> Thanks Guy
> Good place to start.
> I just made a good radio bad.
> Chris

Chris,

With all the help on here, you will get it going again. Rueben is
right about the connectors. I had lany pull right out of the board
when I unplugged some of the cables. Even though they look like they
are seated they may not be making electrical contact. Whe you pull the
boards it is a good idea to resolder all the pins on all the
connectors. I'm sure it is something simple. If the bands where
working before I doubt it is the band switch. Highly unlikely more
than one band would quit at the same time.

Max

10496. Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 02:18:13 UTC
From: max_ve3tmt
Topic: 10496 Message: 10496

Spent some time this weekend working the JARTS RTTY contest on the 830 and had a blast. In my limited time I made 88 contacts on 80, 40, 20 and a few on 15. My strung up 80m longwire at 25' managed to get me into FLA and TX. If you have a narrow CW filter in your rig and haven't done the mod yet, I highly recommend it. Being able to use the 500Hz filter on SSB was great in reducing the QRM. This 830 truly performs just as well or better than my 850 on the receive side. I now only need 7 states for my WAS award.

Max VE3TMT

10497. Re: TS-820 FIX VOX X50-1150-00 board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 02:28:50 UTC
From: Clif
Topic: 10481 Message: 10497

Do you have the -6v on pin 14 of Fix-3 connector??

Clif

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Hi Joe,
>
> I've been working on my 820, the receive died a couple of weeks or so
> ago. It all started when the two 10 resistors under the final smoked
> after replacing the final tubes. Once fixed, the transmitter worked
> fine but receive sensitivity was way down by 30 to 35db. Calibrator
> signal was barely readable. I keyed the transmitter again to ensure it
> was still working into the dummy load and when returning to receive
> mode, nothing, not a peep from the calibrator and the entire receive
> was dead.
>
> I cleaned every contact, every switch contact and ensure there were
> not any burnt and/or broken wires laying loose. All frequency
> generating circuits such as VCO, Hetrodyne and carrier oscillators
> plus the VFO are working fine. I've looked at all of them, including
> the VFO, and they all look good and stable. The digital display shows
> a solid frequency and changes up and down in frequency by turning the
> main tuning knob. There is no instability in any of the frequency
> generating circuits, they all work as designed.
>
> Last week, I injected an 8.830Mhz signal into RIF (Receive IF) pin 1
> on the IF board but nothing heard. I figured, at that point, possibly
> a failed transistor in the IF chain. That was incorrect. I went back
> to the RF amp board, traced the signal through and still no receive.
> At that point I thought "All of the transistors couldn't have failed",
> something I later found out to be a correct assumption, none of them
> failed, they all work, including the RF and IF system through to the
> speaker. I know the audio stage is working since I could hear myself
> through the internal speaker with the MON switch ON. All voltages are
> within specs.
>
> The other day while cleaning the function switch, I notice if I placed
> the function switch midway between VFO and VFO R, the receiver worked
> fine but no transmit. That eliminated the IF, RF amp, all frequency
> generating circuits as being possible suspected failed circuits. It
> lead me to believe that possibly the function had failed in one of the
> sections. Yesterday, I remove the function switch, cleaned it with
> DeoXit and checked each section, nothing found to be bad. All sections
> worked as they should and I did not see any broken or pinched wires

> plus no shorts that shouldn't be there. That eliminated the function
> switch. I cleaned every plug to every circuit card with no
> improvement, still dead receiver. With the function switch in the VFO
> position, correct freqency is indicated on the digital read out and no
> irregularities when tuning, smooth output on the scope and very stable.
>
> This morning, I was checking connections and pulled the FIX-3 plug
> from the FIX VOX board, made sure the function switch was in VFO
> position, not midway between VFO and VFO R, powered up the 820 and
> noticed the receive came back, somewhat. Although I could hear the
> calibrator, the bandpass appeared to be very narrow, somewhere around
> 150hz or less in USB. Placing the mode switch in LSB made the bandpass
> was much more narrow, something on the order of 120 or less Hz. The
> 820 does have the CW filter installed so I checked the RIT and IF
> Shift adjustment on the front panel. Both were in their normal mid
> position so that wasn't the reason for the narrow bandpass. The ATTEN
> switch was also checked, it was OFF. This switch was checked
> previously to ensure it wasn't bad, it checked ok.
>
> Reviewing the schematic in the service manual, it is confusing to know
> what the 1, 2 or 3 letter designation assigned to each pin on each
> board are. Some are easy to figure out but other are a guessing game
> as to what they are and for what purpose they serve.
>
> Since everything else is working, the FIX VOX board appears to be the
> only possible failure at this point. I do not have access to another
> 820 to do comparisons. Something is possbily shutting down the IF
> and/or RF boards and I can't seem to find it. All voltages are good so
> it's not a voltage source problem. A control signal or control voltage
> is what I feel is causing the problem. I have not changed any
> transistors, only some electrolytics on the FIX VOX board. Everything
> else on the 820 is working properly. If I had another board I could
> swap and do some voltage checks against the failed board which would
> give me a much better idea of what is wrong. Since the service manual
> only has voltages at the some transistors, most of which I can not
> read. Most voltage indications on the schematics too dark or beyond
> recognition because of the copy resolution. The manual on Bama is the
> same except much worse.
>
> As I said, with the function switch midway between VFO and VFO R, the
> receiver works great. Why the receiver dies in VFO position on the
> function switch has me stumped.
>
> Do you have a FIX VOX board you would be willing to sell? If so what
> would you be asking for the board including shipping to zip code 74953?
>
> 73's,
>
> Mike
> W5RKL

>
>
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@> wrote:
> >
> > Are you looking to buy or to borrow so you can fix yours?
> >
> > Joe----- Original Message -----
> > From: w5rkl
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Sunday, October 22, 2006 6:43 AM
> > Subject: [TS-520_820_530_830] TS-820 FIX VOX X50-1150-00 board
> >
> >
> > Morning Group,
> >
> > I'm looking for a FIX VOX X50-1150-00 board for a TS-820. If anyone
> > has one that is working please let me know including price plus
> shipping.
> >
> > Thanks and 73's
> >
> > Mike
> > W5RKL
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

10498. Re: Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 09:34:32 UTC
From: Jeroen
Topic: 10496 Message: 10498

Hi Max,

I spent some time this weekend in the Jamboree on the Air, mainly on 80 and 40 meters. My TS-830 performed very well and the scouts made some very nice contacts, only Europe. I never had put the rig in so much stress before, but it was a very good testcase. While the Worked All Germany contest was running, I was able to dig out some weak JOTA stations out of the noise. Unfortunately I was unable to work 20 meters and higher, neither was I able to run some RTTY or PSK. Well, some things to work on for next year. Another satisfied Kenwood-customer HI.

Jeroen PF1JM

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...> wrote:
>
> Spent some time this weekend working the JARTS RTTY contest on the 830
> and had a blast. In my limited time I made 88 contacts on 80, 40, 20
> and a few on 15. My strung up 80m longwire at 25' managed to get me
> into FLA and TX. If you have a narrow CW filter in your rig and
> haven't done the mod yet, I highly recommend it. Being able to use the
> 500Hz filter on SSB was great in reducing the QRM. This 830 truly
> performs just as well or better than my 850 on the receive side. I now
> only need 7 states for my WAS award.
>
> Max VE3TMT
>

10499. Just to say G'day

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 07:46:20 UTC
From: Bill
Topic: 10499 Message: 10499

Hello my name is Bill ZL3NB and new to the group. I have been a amateur since 1966 originally as WA3GLX. See www.qrz.com/zl3nb for details.

Have owned a Kenwood TS530S since new from 1983 along with the matching SP230 speaker and VFO240 VFO. It was my main station till just 2 years ago when a TS2000 was purchased but still use the "Old Steamer" on a regular basis and on the digital modes where it works like a charm.

The only real problem has been the Band switch but about 5 years ago I fixed it once and for all by removing the Driver Board and resoldering all of the joints from the switch on the board...It's been like new ever since. It's a easy radio to work with and have found under yearly maintenance and alignment they will run perfectly and even out due do some of the newer ones too. These radios have to be considered the "Best of the best" ever made and with the 500 and 270hz CW Filters installed...they're great on cw which is my preferred mode of operation.

73 de Bill ZL3NB

10500. Re: TS-820 FIX VOX X50-1150-00 board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 03:05:44 UTC
From: w5rkl
Topic: 10481 Message: 10500

Yes, all voltages are good. I've checked each one from their source
and on every board and found them to be good.

Mike

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> Do you have the -6v on pin 14 of Fix-3 connector??
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> > Hi Joe,
> >
> > I've been working on my 820, the receive died a couple of weeks or so
> > ago. It all started when the two 10 resistors under the final smoked
> > after replacing the final tubes. Once fixed, the transmitter worked
> > fine but receive sensitivity was way down by 30 to 35db. Calibrator
> > signal was barely readable. I keyed the transmitter again to ensure it
> > was still working into the dummy load and when returning to receive
> > mode, nothing, not a peep from the calibrator and the entire receive
> > was dead.
> >
> > I cleaned every contact, every switch contact and ensure there were
> > not any burnt and/or broken wires laying loose. All frequency
> > generating circuits such as VCO, Hetrodyne and carrier oscillators
> > plus the VFO are working fine. I've looked at all of them, including
> > the VFO, and they all look good and stable. The digital display shows
> > a solid frequency and changes up and down in frequency by turning the
> > main tuning knob. There is no instability in any of the frequency
> > generating circuits, they all work as designed.
> >
> > Last week, I injected an 8.830Mhz signal into RIF (Receive IF) pin 1
> > on the IF board but nothing heard. I figured, at that point, possibly
> > a failed transistor in the IF chain. That was incorrect. I went back
> > to the RF amp board, traced the signal through and still no receive.
> > At that point I thought "All of the transistors couldn't have failed",
> > something I later found out to be a correct assumption, none of them
> > failed, they all work, including the RF and IF system through to the
> > speaker. I know the audio stage is working since I could hear myself
> > through the internal speaker with the MON switch ON. All voltages are
> > within specs.
> >
> > The other day while cleaning the function switch, I notice if I placed

> > the function switch midway between VFO and VFO R, the receiver worked
> > fine but no transmit. That eliminated the IF, RF amp, all frequency
> > generating circuits as being possible suspected failed circuits. It
> > lead me to believe that possibly the function had failed in one of the
> > sections. Yesterday, I remove the function switch, cleaned it with
> > DeoXit and checked each section, nothing found to be bad. All sections
> > worked as they should and I did not see any broken or pinched wires
> > plus no shorts that shouldn't be there. That eliminated the function
> > switch. I cleaned every plug to every circuit card with no
> > improvement, still dead receiver. With the function switch in the VFO
> > position, correct freqency is indicated on the digital read out and no
> > irregularities when tuning, smooth output on the scope and very
stable.
> >
> > This morning, I was checking connections and pulled the FIX-3 plug
> > from the FIX VOX board, made sure the function switch was in VFO
> > position, not midway between VFO and VFO R, powered up the 820 and
> > noticed the receive came back, somewhat. Although I could hear the
> > calibrator, the bandpass appeared to be very narrow, somewhere around
> > 150hz or less in USB. Placing the mode switch in LSB made the bandpass
> > was much more narrow, something on the order of 120 or less Hz. The
> > 820 does have the CW filter installed so I checked the RIT and IF
> > Shift adjustment on the front panel. Both were in their normal mid
> > position so that wasn't the reason for the narrow bandpass. The ATTEN
> > switch was also checked, it was OFF. This switch was checked
> > previously to ensure it wasn't bad, it checked ok.
> >
> > Reviewing the schematic in the service manual, it is confusing to know
> > what the 1, 2 or 3 letter designation assigned to each pin on each
> > board are. Some are easy to figure out but other are a guessing game
> > as to what they are and for what purpose they serve.
> >
> > Since everything else is working, the FIX VOX board appears to be the
> > only possible failure at this point. I do not have access to another
> > 820 to do comparisons. Something is possbily shutting down the IF
> > and/or RF boards and I can't seem to find it. All voltages are good so
> > it's not a voltage source problem. A control signal or control voltage
> > is what I feel is causing the problem. I have not changed any
> > transistors, only some electrolytics on the FIX VOX board. Everything
> > else on the 820 is working properly. If I had another board I could
> > swap and do some voltage checks against the failed board which would
> > give me a much better idea of what is wrong. Since the service manual
> > only has voltages at the some transistors, most of which I can not
> > read. Most voltage indications on the schematics too dark or beyond
> > recognition because of the copy resolution. The manual on Bama is the
> > same except much worse.
> >
> > As I said, with the function switch midway between VFO and VFO R, the
> > receiver works great. Why the receiver dies in VFO position on the
> > function switch has me stumped.

> >
> > Do you have a FIX VOX board you would be willing to sell? If so what
> > would you be asking for the board including shipping to zip code
74953?
> >
> > 73's,
> >
> > Mike
> > W5RKL
> >
> >
> >
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@> wrote:
> > >
> > > Are you looking to buy or to borrow so you can fix yours?
> > >
> > > Joe----- Original Message -----
> > > From: w5rkl
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Sunday, October 22, 2006 6:43 AM
> > > Subject: [TS-520_820_530_830] TS-820 FIX VOX X50-1150-00 board
> > >
> > >
> > > Morning Group,
> > >
> > > I'm looking for a FIX VOX X50-1150-00 board for a TS-820. If
anyone
> > > has one that is working please let me know including price plus
> > shipping.
> > >
> > > Thanks and 73's
> > >
> > > Mike
> > > W5RKL
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> >
>

10501. RE: [TS-520_820_530_830] TS-830s with low output.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 12:48:05 UTC
From: McKenzie, Wayland
Topic: 10429 Message: 10501

Hi Dave,

I'll sure try it.

Mac

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of David Rust
Sent: Friday, October 20, 2006 3:06 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-830s with low output.

Mac, K4CHS,
I just had a similiar circumstance with my 830s. It was suggested by one
of the members here to replace the two filter capacitors. The exact
replacements are not available, however, I got a couple from DigiKey
that worked just fine.

My HV is back up where it belonged, and I have full output. DigiKey Part
P7448-ND. If they don't have that I thank P7449-ND is the same thing.
Both are 100uf 500 volt.

Dave W0DLR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10502. Re: VFO on TS 820s not working

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 13:15:05 UTC
From: w1ioo
Topic: 10416 Message: 10502

Here is an update from the weekend. 1. The diode D4 on the vfo board was open so replaced it. Receiver working, 2. Mike your last input was great. The output from the VFO died in spots. Used DE-ox on the tension spring on the verable cap. Three applications and a lot of turning of the cap what a difference. I would never have thought of that.
Now in the process of reinstalling the VFO. Not as easy as it came out. After that try the transmitter then give it a good bath.
73 and thanks all. Wally
--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
> Wally,
>
> You said the VFO had a good output but the VFO output is not stable.
> By unstable, does the VFO output become unstable when you tune the VFO
> or is it unstable without tuning? Is the instability at any point
> throughout its rotation or in one spot? I've seen it both ways.
>
> I've repaired alot of VFOs, LMOs, PTO, etc, that had instability in
> their output signals. Cleaning the tension spring contact point, 95%
> of the time, clears up the instability.
>
> I agree with the others in that removing the VFO at this point may not
> be the best course of action. Look at the side of the VFO. There
> should be a small plate with 2 screws holding the plate to the VFO
> case. This allows access to the VFO capacitor shaft to clean the
> tension spring contact point without removing the VFO from the radio.
> Remove the side plate and give the tension spring a shot of DeoXit and
> rotate the VFO throughout its travel a couple of times. Repeat the
> procedure after a minute or two then wait a couple of minutes before
> powering up the VFO. Check the VFOs output. Is is stable now? It
> should be. I would also clean the RCA male plug with a shot of DeoXit
> then insert the plug into the female socket a couple of times.
>
> Dirt accumulates over time and interrupts the continuity between the
> variable capacitor shaft and the capacitor frame, causing instability
> in the VFOs output signal.
>
> If the VFO still exhibits some instability at certain points in the

> rotation then the use of a brush may be needed. A word of CAUTION is
> needed here. If you use a brush, extreme care MUST be used to
prevent
> damaging the capacitor plates and surrounding components. Use only
> slight pressure and slow scrubbing action. It doesn't take much to
get
> the dirt/corrision out. Again, use CAUTION when performing this
task.
> I only use a brush when absolutely necessary. A childs tootbrush,
soft
> bristles, is perfect for this. Do not use a stiff bristle brush! If
> there isn't room to do this, you can heat the point just below the
> bristle area on the brush and bend it to fit. Just take your time
and
> use very little force and only slight back and forth scrubbing
motion,
> three of four strokes are all that is needed to dislodge the
> dirty/corrosion.
>
>
> 73s
>
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "w1ioo" <w1ioo@> wrote:
> >
> > Thank you Bill and Mike. I looked at the output of the VFO and
the
> > sine wave was about 15mv p-p. The frequency was correct for the
VFO
> > output. It was not stable. I have a copy of the service manual
and
> > it shows how to take the VFO out. I also have a schmatic of it
with
> > voltage readings. Probably a transistor or two gone. Will dive
into
> > it this weekend. Will let you all know the results.
> > Wally
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
> > <k5gcw@> wrote:
> > >
> > > Wally.
> > >
> > > Mike just gave you some good analysis methods. Let me tell you
> > about the problem I fixed on a VFO-520 last week. The 520 radio
> > worked fine with it's internal vfo, but when I switched to the
> > remote vfo, no receive signal was heard - just the residual noise

> > from the audio output amp when the volume control was increased.
I
> > did testing with a scope and saw that the remote vfo had a very
> > strong signal output (about 3.8Vp-p as I recall), so then I
started
> > tracing wires. I found two broken coax center leads - one in the
> > interconnecting cable, and the other on the remote vfo socket
inside
> > the TS-520 radio. So I would recommend that you do some wire
> > tracing before jumping off into something more serious. The
solid
> > center conductor of the coax cables Kenwood used are very
fragile.
> > Good Hunting.
> > >
> > > 73, Bill, K5GCW
> > > ----- Original Message -----
> > > From: w1ioo
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Friday, October 20, 2006 8:56 AM
> > > Subject: [TS-520_820_530_830] VFO on TS 820s not working
> > > >
> > > >
> > > I am referbishing an 820s. The set receives with the external
> > vf0-820
> > > but not with the internal vfo. The vfo plug is in place and
the
> > 9
> > > volts is present on plug of the vfo unit. Looking at pin 1 on
> > the vfo
> > > plug there is no signal with the internal vfo but present
with
> > the
> > > external. Before I start to take the vfo appart Is there
> > something
> > > else I may have overlooked and not checked. Thank you all in
> > advance.
> > > Wally
> > > >
> > > >
> > > >
> > > >
> > > >
> > > [Non-text portions of this message have been removed]
> > > >
> > >
>

10503. Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 13:31:29 UTC
From: w7cth
Topic: 10481 Message: 10503

-
I found the problem with the 3 bands dead, Someone in the past of this
radio installed a switch in the back of the radio. They did a very
poor job of install. The wire came out of the plug that they were in.
I am going to talk with my friend and find out what this switch is for.
Chris W7CTH
Boise Idaho

In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@>
> wrote:
> >
> > I cleaned the the band switch with deoxit and twisted the band
> switch back and forth at the same time. I did not know that I had 3
> bands out unitll today. I only talk on 40 and 20. I am going to check
> all the connectors. I had the IF board out 2 time doing the mods. I
> did not clean the conectors when I did my cleaning.
> > Thanks Guy
> > Good place to start.
> > I just made a good radio bad.
> > Chris
>
> Chris,
>
> With all the help on here, you will get it going again. Rueben is
> right about the connectors. I had lany pull right out of the board
> when I unplugged some of the cables. Even though they look like they
> are seated they may not be making electrical contact. Whe you pull the
> boards it is a good idea to resolder all the pins on all the
> connectors. I'm sure it is something simple. If the bands where
> working before I doubt it is the band switch. Highly unlikely more
> than one band would quit at the same time.
>
> Max
>

10504. Re: [TS-520_820_530_830] Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 13:42:01 UTC
From: Ruben Echevarria
Topic: 10481 Message: 10504

Glad to hear you got it ironed out Chris. Maybe someone tried to CB the rig at one time.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: w7cth <w7cth@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 9:31:29 AM
Subject: [TS-520_820_530_830] Re: 3 bands dead

-
I found the problem with the 3 bands dead, Someone in the past of this
radio installed a switch in the back of the radio. They did a very
poor job of install. The wire came out of the plug that they were in.
I am going to talk with my friend and find out what this switch is for.
Chris W7CTH
Boise Idaho

In TS-520_820_530_ 830@yahoogroups. com, "max_ve3tmt" <max_ve3tmt@ ...>
wrote:
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Chris HEmbree <w7cth@>
> wrote:
> >
> > I cleaned the the band switch with deoxit and twisted the band
> switch back and forth at the same time. I did not know that I had 3
> bands out unitll today. I only talk on 40 and 20. I am going to check
> all the connectors. I had the IF board out 2 time doing the mods. I
> did not clean the conectors when I did my cleaning.
> > Thanks Guy
> > Good place to start.
> > I just made a good radio bad.
> > Chris
>
> Chris,
>
> With all the help on here, you will get it going again. Rueben is
> right about the connectors. I had lany pull right out of the board
> when I unplugged some of the cables. Even though they look like they
> are seated they may not be making electrical contact. Whe you pull the
> boards it is a good idea to resolder all the pins on all the
> connectors. I'm sure it is something simple. If the bands where
> working before I doubt it is the band switch. Highly unlikely more
> than one band would quit at the same time.

>
> Max
>

[Non-text portions of this message have been removed]

10505. Re: [TS-520_820_530_830] Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 14:25:50 UTC
From: Gordon Brown
Topic: 10481 Message: 10505

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 9:31 AM
Subject: [TS-520_820_530_830] Re: 3 bands dead

-
I found the problem with the 3 bands dead, Someone in the past of this
radio installed a switch in the back of the radio. They did a very
poor job of install. The wire came out of the plug that they were in.
I am going to talk with my friend and find out what this switch is for.
Chris W7CTH
Boise Idaho

In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt" <max_ve3tmt@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@>
> wrote:
> >
> > I cleaned the the band switch with deoxit and twisted the band
> switch back and forth at the same time. I did not know that I had 3
> bands out unitll today. I only talk on 40 and 20. I am going to check
> all the connectors. I had the IF board out 2 time doing the mods. I
> did not clean the conectors when I did my cleaning.
> > Thanks Guy
> > Good place to start.
> > I just made a good radio bad.
> > Chris
>
> Chris,
>
> With all the help on here, you will get it going again. Rueben is
> right about the connectors. I had lany pull right out of the board
> when I unplugged some of the cables. Even though they look like they
> are seated they may not be making electrical contact. Whe you pull the
> boards it is a good idea to resolder all the pins on all the
> connectors. I'm sure it is something simple. If the bands where
> working before I doubt it is the band switch. Highly unlikely more
> than one band would quit at the same time.
>
> Max
>

[Non-text portions of this message have been removed]

10506. Re: [TS-520_820_530_830] Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 14:32:22 UTC
From: Max Harelik
Topic: 10481 Message: 10506

Probably an old CB mod. Two of the four TS-530S's I presently have were similarly switched/wired for 11m. Had a really frustrating time when I first encountered the back panel switch. It (the stitch) was moved once while housecleaning, and the rig (which before performed flawlessly) was suddenly inop. It's still there, but I intend to remove it at some point.

73,
Max, K5OVW

w7cth wrote:

> -
> I found the problem with the 3 bands dead, Someone in the past of this
> radio installed a switch in the back of the radio. They did a very
> poor job of install. The wire came out of the plug that they were in.
> I am going to talk with my friend and find out what this switch is for.
> Chris W7CTH
> Boise Idaho
>

10507. TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 14:51:17 UTC
From: w5rkl
Topic: 10507 Message: 10507

While troubleshooting my TS-820, I took some voltage readings on the "RB" bias voltge control line. The "RB" bias voltage controls both the RF and IF amplifier boards in receive and transmit. I going to take a stab at the meaning of "RB", possibly "Receive Bias" or "Reverse Bias". It really doesn't matter what it means since it's purpose is to "shut down" the receiver in transmit mode. Simply removing the "RB" pin does nothing as you will see by reading the rest of this post.

In receive, a positive voltage of +2.7 to +3 vdc is applied to the "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1 (IF amplifier board). On the RF amplifier board, RF amplifier buffer Q3 and both receive mixer transistors Q6 and Q7 are biased with a positive voltage, turning them "ON" in receive mode. Also, on the IF amplifier board, the second IF amplifier, Q2, is biased with this same RB positive voltage thereby turning Q2 "ON", also in receive mode.

In transmit mode, however, the "RB" voltage is changed to -2.7 to -3 vdc. This negative voltage is applied to the same transistors, Q3, Q6 and Q7 on the RF amplifier board along with Q2 on the IF amplifier board, turning them "OFF".

My problem is, I have -2.7vdc "RB" control voltage being constantly applied to the "RB" pins on the RF and IF boards whether in transmit or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB" voltage to -.08vdc, it never changes in either transmit or receive modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB" voltage to return to -2.7vdc and this voltage remains at -2.7vdc regardless of transmit or receive. This is the reason the RF and IF boards are, in receive mode, shut down causing no receive.

By moving the function switch midway between VFO and VFO R, the "RB" control voltage switches from -2.7vdc to +2.8vdc allowing the receiver to work. Further movement of the function switch only causes the -2.7 vdc to return, again shutting down the receiver. Following the circuit from the function switch, there are only 2 wafers that switch a "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on the full schematic.

I have verified that "ALL" operating voltages, -6, +5, +9 and +14 volts including the low and high voltages for the driver and final amplifier are present as they should be. The next thing is to find out why the "RB" control voltage is constantly being applying a negative voltage to the RF and IF boards. It is this control voltage that is causing the receiver to be turned "OFF" with the function switch in any position except midway between VFO and VFO R. The function switch is NOT the problem, I've checked each wafer for proper operation and

all four wafers are working properly. I have cleaned the function switch so that's not the problem either, i.e. a dirty switch.

There is a failed component on one of the boards that is causing a constant -2.7vdc to be applied to the "RB" control line. Finding this failed component will more than likely fix the problem.

73's

Mike
W5RKL

10508. Re: Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 15:02:32 UTC
From: Ellen R
Topic: 10496 Message: 10508

I assume you mean WAS RTTY. Do you Need Wisconsin, Max? I do RTTY.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> Spent some time this weekend working the JARTS RTTY contest on the 830
> and had a blast. In my limited time I made 88 contacts on 80, 40, 20
> and a few on 15. My strung up 80m longwire at 25' managed to get me
> into FLA and TX. If you have a narrow CW filter in your rig and
> haven't done the mod yet, I highly recommend it. Being able to use the
> 500Hz filter on SSB was great in reducing the QRM. This 830 truly
> performs just as well or better than my 850 on the receive side. I now
> only need 7 states for my WAS award.
>
> Max VE3TMT
>

10509. Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 15:56:58 UTC
From: Clif
Topic: 10507 Message: 10509

Removing the plug in the Fix/Vox unit removes the -6v supply and
allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
unit. Start by looking at it. The schematic has the emitter voltages
wrong BTW.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> While troubleshooting my TS-820, I took some voltage readings on the
> "RB" bias voltge control line. The "RB" bias voltage controls both the
> RF and IF amplifier boards in receive and transmit. I going to take a
> stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> Bias". It really doesn't matter what it means since it's purpose is to
> "shut down" the receiver in transmit mode. Simply removing the "RB"
> pin does nothing as you will see by reading the rest of this post.
>
> In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1
> (IF amplifier board). On the RF amplifier board, RF amplifier buffer
> Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> positive voltage, turning them "ON" in receive mode. Also, on the IF
> amplifier board, the second IF amplifier, Q2, is biased with this same
> RB positive voltage thereby turning Q2 "ON", also in receive mode.
>
> In transmit mode, however, the "RB" voltage is changed to -2.7 to -3
> vdc. This negative voltage is applied to the same transistors, Q3, Q6
> and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> board, turning them "OFF".
>
> My problem is, I have -2.7vdc "RB" control voltage being constantly
> applied to the "RB" pins on the RF and IF boards whether in transmit
> or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> voltage to -.08vdc, it never changes in either transmit or receive
> modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> regardless of transmit or receive. This is the reason the RF and IF
> boards are, in receive mode, shut down causing no receive.
>
> By moving the function switch midway between VFO and VFO R, the "RB"
> control voltage switches from -2.7vdc to +2.8vdc allowing the receiver
> to work. Further movement of the function switch only causes the -2.7
> vdc to return, again shutting down the receiver. Following the circuit
> from the function switch, there are only 2 wafers that switch a

> "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on the full
> schematic.
>
> I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> volts including the low and high voltages for the driver and final
> amplifier are present as they should be. The next thing is to find out
> why the "RB" control voltage is constantly being applying a negative
> voltage to the RF and IF boards. It is this control voltage that is
> causing the receiver to be turned "OFF" with the function switch in
> any position except midway between VFO and VFO R. The function switch
> is NOT the problem, I've checked each wafer for proper operation and
> all four wafers are working properly. I have cleaned the function
> switch so that's not the problem either, i.e. a dirty switch.
>
> There is a failed component on one of the boards that is causing a
> constant -2.7vdc to be applied to the "RB" control line. Finding this
> failed component will more than likely fix the problem.
>
> 73's
>
> Mike
> W5RKL
>

10510. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 17:17:09 UTC
From: Rick KC0HH
Topic: 10441 Message: 10510

Hi Walt,

I checked the level across the 100 ohm resistor with the sectrum analyzer by first adjusting to 600mV as per AG6K's recommendation and then second peaking it on a weak signal(820mV). I chose a 1.5khz signal using my calibrate marker as it is in the middle of my bandwidth. With the AF control set at minimum, it is at -50dB level.

I observed a definite increase in signal strength level of the tone maximizing L19 and L20 for weak signal compared with just adjusting it for 600mV but the noise floor came up about the same amount...You can see this level change is slightlly higher on the bottom graph. I did not notice any increase in noise or distortion though. If I had to come up with a figure, I would say 2dB...I posted the plots in the photos section. The comparison plot is 600mV on top and 820mV on bottom. I wonder if the 600mV level was arrived at with the original 1N60's as optimum signal to noise and minimum distortion. The much quieter 1N5711's work well with maxing L19 and L20... I left my 830S set for the higher peak. It is much easier to adjust there.

73' Rick KC0HH
Lamar, Colorado

n9wb <n9wb@...> wrote: Rick:

Would you like to play around and see what affect the level across the resistor has on the S/n Ratio?

Walt N9WB

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10511. Re: Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 17:41:28 UTC
From: max_ve3tmt
Topic: 10496 Message: 10511

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> I assume you mean WAS RTTY. Do you Need Wisconsin, Max? I do RTTY.
>
> Ellen - AF9J

Ellen,

As far as modes go I'm not sure what I have in each mode. I have Wisconsin in PSK. WAS on RTTY might be a nice goal to shoot for. Right now it is mixed mode. I am half way to my DXCC as well. It is amazing how quickly you can accumulate states and countries during a contest weekend!

Max

10512. Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 19:35:51 UTC
From: w5rkl
Topic: 10507 Message: 10512

I'll give that a try Clif. I did notice the voltages on Q4 in the RF amp board. What Kenwood was doing is beyond me. With -C on the base, -13 on the collector and -6 on the emitter, there's no what that transistor would work, it's impossible. So much for voltage readings on the schematic hi hi..

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> Removing the plug in the Fix/Vox unit removes the -6v supply and
> allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
> unit. Start by looking at it. The schematic has the emitter voltages
> wrong BTW.
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > While troubleshooting my TS-820, I took some voltage readings on the
> > "RB" bias voltge control line. The "RB" bias voltage controls both the
> > RF and IF amplifier boards in receive and transmit. I going to take a
> > stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> > Bias". It really doesn't matter what it means since it's purpose is to
> > "shut down" the receiver in transmit mode. Simply removing the "RB"
> > pin does nothing as you will see by reading the rest of this post.
> >
> > In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> > "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1
> > (IF amplifier board). On the RF amplifier board, RF amplifier buffer
> > Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> > positive voltage, turning them "ON" in receive mode. Also, on the IF
> > amplifier board, the second IF amplifier, Q2, is biased with this same
> > RB positive voltage thereby turning Q2 "ON", also in receive mode.
> >
> > In transmit mode, however, the "RB" voltage is changed to -2.7 to -3
> > vdc. This negative voltage is applied to the same transistors, Q3, Q6
> > and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> > board, turning them "OFF".
> >
> > My problem is, I have -2.7vdc "RB" control voltage being constantly
> > applied to the "RB" pins on the RF and IF boards whether in transmit

> > or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> > voltage to -.08vdc, it never changes in either transmit or receive
> > modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> > voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> > regardless of transmit or receive. This is the reason the RF and IF
> > boards are, in receive mode, shut down causing no receive.
> >
> > By moving the function switch midway between VFO and VFO R, the "RB"
> > control voltage switches from -2.7vdc to +2.8vdc allowing the receiver
> > to work. Further movement of the function switch only causes the -2.7
> > vdc to return, again shutting down the receiver. Following the circuit
> > from the function switch, there are only 2 wafers that switch a
> > "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on the full
> > schematic.
> >
> > I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> > volts including the low and high voltages for the driver and final
> > amplifier are present as they should be. The next thing is to find out
> > why the "RB" control voltage is constantly being applying a negative
> > voltage to the RF and IF boards. It is this control voltage that is
> > causing the receiver to be turned "OFF" with the function switch in
> > any position except midway between VFO and VFO R. The function switch
> > is NOT the problem, I've checked each wafer for proper operation and
> > all four wafers are working properly. I have cleaned the function
> > switch so that's not the problem either, i.e. a dirty switch.
> >
> > There is a failed component on one of the boards that is causing a
> > constant -2.7vdc to be applied to the "RB" control line. Finding this
> > failed component will more than likely fix the problem.
> >
> > 73's
> >
> > Mike
> > W5RKL
> >
>

10513. Re: [TS-520_820_530_830] Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 20:01:33 UTC
From: N6WK
Topic: 10507 Message: 10513

Mike,
What voltages does your schematic show that Q4 should have?
Clif is this the one having the wrong Voltages listed that you are
referring to?

I show the voltages on Q4 RF Board on my schematic to be Base -12.3
(-11.8) Emitter -6 (-6) Collector -4.8 (2.5)

I don't have an 820 here to actually measure at this moment.

Gordon

w5rkl wrote:

> I'll give that a try Clif. I did notice the voltages on Q4 in the RF
> amp board. What Kenwood was doing is beyond me. With -C on the base,
> -13 on the collector and -6 on the emitter, there's no what that
> transistor would work, it's impossible. So much for voltage readings
> on the schematic hi hi..
>
> 73's,
>
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Clif" <clif@...> wrote:
> >
> > Removing the plug in the Fix/Vox unit removes the -6v supply and
> > allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
> > unit. Start by looking at it. The schematic has the emitter voltages
> > wrong BTW.
> >
> > Clif
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > > While troubleshooting my TS-820, I took some voltage readings on the
> > > "RB" bias voltge control line. The "RB" bias voltage controls both the
> > > RF and IF amplifier boards in receive and transmit. I going to take a
> > > stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> > > Bias". It really doesn't matter what it means since it's purpose is to
> > > "shut down" the receiver in transmit mode. Simply removing the "RB"
> > > pin does nothing as you will see by reading the rest of this post.

> > >
> > > In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> > > "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1
> > > (IF amplifier board). On the RF amplifier board, RF amplifier buffer
> > > Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> > > positive voltage, turning them "ON" in receive mode. Also, on the IF
> > > amplifier board, the second IF amplifier, Q2, is biased with this same
> > > RB positive voltage thereby turning Q2 "ON", also in receive mode.
> > >
> > > In transmit mode, however, the "RB" voltage is changed to -2.7 to -3
> > > vdc. This negative voltage is applied to the same transistors, Q3, Q6
> > > and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> > > board, turning them "OFF".
> > >
> > > My problem is, I have -2.7vdc "RB" control voltage being constantly
> > > applied to the "RB" pins on the RF and IF boards whether in transmit
> > > or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> > > voltage to -.08vdc, it never changes in either transmit or receive
> > > modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> > > voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> > > regardless of transmit or receive. This is the reason the RF and IF
> > > boards are, in receive mode, shut down causing no receive.
> > >
> > > By moving the function switch midway between VFO and VFO R, the "RB"
> > > control voltage switches from -2.7vdc to +2.8vdc allowing the receiver
> > > to work. Further movement of the function switch only causes the -2.7
> > > vdc to return, again shutting down the receiver. Following the circuit
> > > from the function switch, there are only 2 wafers that switch a
> > > "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on the full
> > > schematic.
> > >
> > > I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> > > volts including the low and high voltages for the driver and final
> > > amplifier are present as they should be. The next thing is to find out
> > > why the "RB" control voltage is constantly being applying a negative
> > > voltage to the RF and IF boards. It is this control voltage that is
> > > causing the receiver to be turned "OFF" with the function switch in
> > > any position except midway between VFO and VFO R. The function switch
> > > is NOT the problem, I've checked each wafer for proper operation and
> > > all four wafers are working properly. I have cleaned the function
> > > switch so that's not the problem either, i.e. a dirty switch.
> > >
> > > There is a failed component on one of the boards that is causing a
> > > constant -2.7vdc to be applied to the "RB" control line. Finding this
> > > failed component will more than likely fix the problem.
> > >
> > > 73's
> > >
> > > Mike
> > > W5RKL

> > >
> >
>
>

[Non-text portions of this message have been removed]

10514. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 21:12:43 UTC
From: n9wb
Topic: 10441 Message: 10514

Rick:
Did it still have to be tweaked for balance between USB and LSB after maxing them out ?
Walt.
----- Original Message -----
From: Rick KC0HH
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 12:17 PM
Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Hi Walt,

I checked the level across the 100 ohm resistor with the sectrum analyzer by first adjusting to 600mV as per AG6K's recommendation and then second peaking it on a weak signal(820mV). I chose a 1.5khz signal using my calibrate marker as it is in the middle of my bandwidth. With the AF control set at minimum, it is at -50dB level.

I observed a definite increase in signal strength level of the tone maximizing L19 and L20 for weak signal compared with just adjusting it for 600mV but the noise floor came up about the same amount...You can see this level change is slightlly higher on the bottom graph. I did not notice any increase in noise or distortion though. If I had to come up with a figure, I would say 2dB...I posted the plots in the photos section. The comparison plot is 600mV on top and 820mV on bottom. I wonder if the 600mV level was arrived at with the original 1N60's as optimum signal to noise and minimum distortion. The much quieter 1N5711's work well with maxing L19 and L20... I left my 830S set for the higher peak. It is much easier to adjust there.

73' Rick KC0HH
Lamar, Colorado

n9wb <n9wb@...> wrote: Rick:

Would you like to play around and see what affect the level across the resistor has on the S/n Ratio?

Walt N9WB

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10515. Re: [TS-520_820_530_830] Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 21:15:12 UTC
From: n9wb
Topic: 10507 Message: 10515

Have you checked the relay on the AF/AVR board? May be a bad contact. Walt N9WB
----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 2:35 PM
Subject: [TS-520_820_530_830] Re: TS-820 update

I'll give that a try Clif. I did notice the voltages on Q4 in the RF
amp board. What Kenwood was doing is beyond me. With -C on the base,
-13 on the collector and -6 on the emitter, there's no what that
transistor would work, it's impossible. So much for voltage readings
on the schematic hi hi..

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> Removing the plug in the Fix/Vox unit removes the -6v supply and
> allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
> unit. Start by looking at it. The schematic has the emitter voltages
> wrong BTW.
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> >
> >
> > While troubleshooting my TS-820, I took some voltage readings on the
> > "RB" bias voltge control line. The "RB" bias voltage controls both the
> > RF and IF amplifier boards in receive and transmit. I going to take a
> > stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> > Bias". It really doesn't matter what it means since it's purpose is to
> > "shut down" the receiver in transmit mode. Simply removing the "RB"
> > pin does nothing as you will see by reading the rest of this post.
> >
> > In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> > "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1
> > (IF amplifier board). On the RF amplifier board, RF amplifier buffer
> > Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> > positive voltage, turning them "ON" in receive mode. Also, on the IF
> > amplifier board, the second IF amplifier, Q2, is biased with this same
> > RB positive voltage thereby turning Q2 "ON", also in receive mode.
> >

> > In transmit mode, however, the "RB" voltage is changed to -2.7 to -3
> > vdc. This negative voltage is applied to the same transistors, Q3, Q6
> > and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> > board, turning them "OFF".
> >
> > My problem is, I have -2.7vdc "RB" control voltage being constantly
> > applied to the "RB" pins on the RF and IF boards whether in transmit
> > or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> > voltage to -.08vdc, it never changes in either transmit or receive
> > modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> > voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> > regardless of transmit or receive. This is the reason the RF and IF
> > boards are, in receive mode, shut down causing no receive.
> >
> > By moving the function switch midway between VFO and VFO R, the "RB"
> > control voltage switches from -2.7vdc to +2.8vdc allowing the receiver
> > to work. Further movement of the function switch only causes the -2.7
> > vdc to return, again shutting down the receiver. Following the circuit
> > from the function switch, there are only 2 wafers that switch a
> > "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on the full
> > schematic.
> >
> > I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> > volts including the low and high voltages for the driver and final
> > amplifier are present as they should be. The next thing is to find out
> > why the "RB" control voltage is constantly being applying a negative
> > voltage to the RF and IF boards. It is this control voltage that is
> > causing the receiver to be turned "OFF" with the function switch in
> > any position except midway between VFO and VFO R. The function switch
> > is NOT the problem, I've checked each wafer for proper operation and
> > all four wafers are working properly. I have cleaned the function
> > switch so that's not the problem either, i.e. a dirty switch.
> >
> > There is a failed component on one of the boards that is causing a
> > constant -2.7vdc to be applied to the "RB" control line. Finding this
> > failed component will more than likely fix the problem.
> >
> > 73's
> >
> > Mike
> > W5RKL
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date: 10/20/06

[Non-text portions of this message have been removed]

10516. Re: [TS-520_820_530_830] Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 20:57:08 UTC
From: N6WK
Topic: 10507 Message: 10516

What about R16 on the Rf board? Increased in value or open maybe?

Gordon

Clif wrote:

> Removing the plug in the Fix/Vox unit removes the -6v supply and
> allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
> unit. Start by looking at it. The schematic has the emitter voltages
> wrong BTW.
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@...> wrote:
> >
> >
> > While troubleshooting my TS-820, I took some voltage readings on the
> > "RB" bias voltge control line. The "RB" bias voltage controls both the
> > RF and IF amplifier boards in receive and transmit. I going to take a
> > stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> > Bias". It really doesn't matter what it means since it's purpose is to
> > "shut down" the receiver in transmit mode. Simply removing the "RB"
> > pin does nothing as you will see by reading the rest of this post.
> >
> > In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> > "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1
> > (IF amplifier board). On the RF amplifier board, RF amplifier buffer
> > Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> > positive voltage, turning them "ON" in receive mode. Also, on the IF
> > amplifier board, the second IF amplifier, Q2, is biased with this same
> > RB positive voltage thereby turning Q2 "ON", also in receive mode.
> >
> > In transmit mode, however, the "RB" voltage is changed to -2.7 to -3
> > vdc. This negative voltage is applied to the same transistors, Q3, Q6
> > and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> > board, turning them "OFF".
> >
> > My problem is, I have -2.7vdc "RB" control voltage being constantly
> > applied to the "RB" pins on the RF and IF boards whether in transmit
> > or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> > voltage to -.08vdc, it never changes in either transmit or receive
> > modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> > voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> > regardless of transmit or receive. This is the reason the RF and IF
> > boards are, in receive mode, shut down causing no receive.

> >
> > By moving the function switch midway between VFO and VFO R, the "RB"
> > control voltage switches from -2.7vdc to +2.8vdc allowing the receiver
> > to work. Further movement of the function switch only causes the -2.7
> > vdc to return, again shutting down the receiver. Following the circuit
> > from the function switch, there are only 2 wafers that switch a
> > "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on the full
> > schematic.
> >
> > I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> > volts including the low and high voltages for the driver and final
> > amplifier are present as they should be. The next thing is to find out
> > why the "RB" control voltage is constantly being applying a negative
> > voltage to the RF and IF boards. It is this control voltage that is
> > causing the receiver to be turned "OFF" with the function switch in
> > any position except midway between VFO and VFO R. The function switch
> > is NOT the problem, I've checked each wafer for proper operation and
> > all four wafers are working properly. I have cleaned the function
> > switch so that's not the problem either, i.e. a dirty switch.
> >
> > There is a failed component on one of the boards that is causing a
> > constant -2.7vdc to be applied to the "RB" control line. Finding this
> > failed component will more than likely fix the problem.
> >
> > 73's
> >
> > Mike
> > W5RKL
> >
>
>

[Non-text portions of this message have been removed]

10517. Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 22:06:10 UTC
From: w5rkl
Topic: 10507 Message: 10517

Tks Gordon for the suggestion. Unfortunately, R16 on the RF board is
at 4.3k, within 10% specs both ways, up or down.

Clif, Q4 on the RF board appeared to be fine. However, I did change it
with a slightly heaftier NPN transistor and it made no difference,
"RB" still at -2.7vdc on RF and IF boards.

Something is causing the "RB" control voltage to be constant on the RF
and IF boards and Q4 doesn't appear to be the problem.

I'll keep looking.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> What about R16 on the Rf board? Increased in value or open maybe?
>
> Gordon
>
>
>
> Clif wrote:
>
> > Removing the plug in the Fix/Vox unit removes the -6v supply and
> > allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
> > unit. Start by looking at it. The schematic has the emitter voltages
> > wrong BTW.
> >
> > Clif
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > > While troubleshooting my TS-820, I took some voltage readings on the
> > > "RB" bias voltge control line. The "RB" bias voltage controls
both the
> > > RF and IF amplifier boards in receive and transmit. I going to
take a
> > > stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> > > Bias". It really doesn't matter what it means since it's purpose
is to

> > > "shut down" the receiver in transmit mode. Simply removing the "RB"
> > > pin does nothing as you will see by reading the rest of this post.
> > >
> > > In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> > > "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3 pin 1
> > > (IF amplifier board). On the RF amplifier board, RF amplifier buffer
> > > Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> > > positive voltage, turning them "ON" in receive mode. Also, on the IF
> > > amplifier board, the second IF amplifier, Q2, is biased with
this same
> > > RB positive voltage thereby turning Q2 "ON", also in receive mode.
> > >
> > > In transmit mode, however, the "RB" voltage is changed to -2.7 to -3
> > > vdc. This negative voltage is applied to the same transistors,
Q3, Q6
> > > and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> > > board, turning them "OFF".
> > >
> > > My problem is, I have -2.7vdc "RB" control voltage being constantly
> > > applied to the "RB" pins on the RF and IF boards whether in transmit
> > > or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> > > voltage to -.08vdc, it never changes in either transmit or receive
> > > modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> > > voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> > > regardless of transmit or receive. This is the reason the RF and IF
> > > boards are, in receive mode, shut down causing no receive.
> > >
> > > By moving the function switch midway between VFO and VFO R, the "RB"
> > > control voltage switches from -2.7vdc to +2.8vdc allowing the
receiver
> > > to work. Further movement of the function switch only causes the
-2.7
> > > vdc to return, again shutting down the receiver. Following the
circuit
> > > from the function switch, there are only 2 wafers that switch a
> > > "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on
the full
> > > schematic.
> > >
> > > I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> > > volts including the low and high voltages for the driver and final
> > > amplifier are present as they should be. The next thing is to
find out
> > > why the "RB" control voltage is constantly being applying a negative
> > > voltage to the RF and IF boards. It is this control voltage that is
> > > causing the receiver to be turned "OFF" with the function switch in
> > > any position except midway between VFO and VFO R. The function
switch
> > > is NOT the problem, I've checked each wafer for proper operation and
> > > all four wafers are working properly. I have cleaned the function

> > > switch so that's not the problem either, i.e. a dirty switch.
> > >
> > > There is a failed component on one of the boards that is causing a
> > > constant -2.7vdc to be applied to the "RB" control line. Finding
this
> > > failed component will more than likely fix the problem.
> > >
> > > 73's
> > >
> > > Mike
> > > W5RKL
> > >
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10518. Re: TS-820 update

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 22:14:47 UTC
From: w5rkl
Topic: 10507 Message: 10518

Walt, I think you mean the relay board (X43-1190-00). The AF-AVR board (X49-1080-00)does not have a relay. Yes I have checked the relay and all contacts are making good continuity check. I even checked the .001ufd disc capacitor across the relay coil and it's good. If it were shorted, the relay wouldn't work, 12vdc direct to ground in transmit. I used a 12VDC power supply to energize the relay and checked both sides, transmit and receive. It's Voodoo magic crawling around in my 820!

Still looking.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Have you checked the relay on the AF/AVR board? May be a bad contact. Walt N9WB
> ----- Original Message -----
> From: w5rkl
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 23, 2006 2:35 PM
> Subject: [TS-520_820_530_830] Re: TS-820 update
>
>
> I'll give that a try Clif. I did notice the voltages on Q4 in the RF
> amp board. What Kenwood was doing is beyond me. With -C on the base,
> -13 on the collector and -6 on the emitter, there's no what that
> transistor would work, it's impossible. So much for voltage readings
> on the schematic hi hi..
>
> 73's,
>
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@> wrote:
> >
> > Removing the plug in the Fix/Vox unit removes the -6v supply and
> > allows RB (Receive Bias) to float. RB is developed by Q4 in the RF
> > unit. Start by looking at it. The schematic has the emitter voltages
> > wrong BTW.
> >
> > Clif
> >

> > --- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@> wrote:
> > >
> > >
> > > While troubleshooting my TS-820, I took some voltage readings
on the
> > > "RB" bias voltge control line. The "RB" bias voltage controls
both the
> > > RF and IF amplifier boards in receive and transmit. I going to
take a
> > > stab at the meaning of "RB", possibly "Receive Bias" or "Reverse
> > > Bias". It really doesn't matter what it means since it's
purpose is to
> > > "shut down" the receiver in transmit mode. Simply removing the
"RB"
> > > pin does nothing as you will see by reading the rest of this post.
> > >
> > > In receive, a positive voltage of +2.7 to +3 vdc is applied to the
> > > "RB" control pins on RF-2 pin 3 (RF amplifier board) and IF-3
pin 1
> > > (IF amplifier board). On the RF amplifier board, RF amplifier
buffer
> > > Q3 and both receive mixer transistors Q6 and Q7 are biased with a
> > > positive voltage, turning them "ON" in receive mode. Also, on
the IF
> > > amplifier board, the second IF amplifier, Q2, is biased with
this same
> > > RB positive voltage thereby turning Q2 "ON", also in receive mode.
> > >
> > > In transmit mode, however, the "RB" voltage is changed to -2.7
to -3
> > > vdc. This negative voltage is applied to the same transistors,
Q3, Q6
> > > and Q7 on the RF amplifier board along with Q2 on the IF amplifier
> > > board, turning them "OFF".
> > >
> > > My problem is, I have -2.7vdc "RB" control voltage being
constantly
> > > applied to the "RB" pins on the RF and IF boards whether in
transmit
> > > or receive mode. Removing the FIX-VOX FIX-3 plug reduces the "RB"
> > > voltage to -.08vdc, it never changes in either transmit or receive
> > > modes. Replacing FIX-3 plug on the FIX-VOX board causes the "RB"
> > > voltage to return to -2.7vdc and this voltage remains at -2.7vdc
> > > regardless of transmit or receive. This is the reason the RF
and IF
> > > boards are, in receive mode, shut down causing no receive.
> > >
> > > By moving the function switch midway between VFO and VFO R,
the "RB"
> > > control voltage switches from -2.7vdc to +2.8vdc allowing the

receiver
> > > to work. Further movement of the function switch only causes
the -2.7
> > > vdc to return, again shutting down the receiver. Following the
circuit
> > > from the function switch, there are only 2 wafers that switch a
> > > "control voltage", wafer 2 and 3 labeled "FS-2" and "FS-3" on
the full
> > > schematic.
> > >
> > > I have verified that "ALL" operating voltages, -6, +5, +9 and +14
> > > volts including the low and high voltages for the driver and final
> > > amplifier are present as they should be. The next thing is to
find out
> > > why the "RB" control voltage is constantly being applying a
negative
> > > voltage to the RF and IF boards. It is this control voltage
that is
> > > causing the receiver to be turned "OFF" with the function
switch in
> > > any position except midway between VFO and VFO R. The function
switch
> > > is NOT the problem, I've checked each wafer for proper
operation and
> > > all four wafers are working properly. I have cleaned the function
> > > switch so that's not the problem either, i.e. a dirty switch.
> > >
> > > There is a failed component on one of the boards that is causing a
> > > constant -2.7vdc to be applied to the "RB" control line.
Finding this
> > > failed component will more than likely fix the problem.
> > >
> > > 73's
> > >
> > > Mike
> > > W5RKL
> > >
> >
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.

> Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date:
10/20/06
>
>
> [Non-text portions of this message have been removed]
>

10519. Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 22:33:49 UTC
From: w7cth
Topic: 10481 Message: 10519

Boy I am not sure what this mod was for. It went to the display board,
I took it out and put the wire back were it belongs. Telling me it was
not the band switch was a big help.
Chris..

-- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...>
wrote:
>
> Probably an old CB mod. Two of the four TS-530S's I presently have were
> similarly switched/wired for 11m. Had a really frustrating time when I
> first encountered the back panel switch. It (the stitch) was moved once
> while housecleaning, and the rig (which before performed flawlessly)
was
> suddenly inop. It's still there, but I intend to remove it at some
point.
>
> 73,
> Max, K5OVW
>
> w7cth wrote:
>
> > -
> > I found the problem with the 3 bands dead, Someone in the past of this
> > radio installed a switch in the back of the radio. They did a very
> > poor job of install. The wire came out of the plug that they were in.
> > I am going to talk with my friend and find out what this switch is
for.
> > Chris W7CTH
> > Boise Idaho
> >
>

10520. Re: Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 22:44:38 UTC
From: w7cth
Topic: 10441 Message: 10520

When you Adj. for 600mv or 820mv are feeding a signal into the radio?
Chris..

-- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Rick:
> Did it still have to be tweaked for balance between USB and LSB
after maxing them out ? Walt.
> ----- Original Message -----
> From: Rick KC0HH
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 23, 2006 12:17 PM
> Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
Analyzer -Before/After
>
>
> Hi Walt,
>
> I checked the level across the 100 ohm resistor with the sectrum
analyzer by first adjusting to 600mV as per AG6K's recommendation and
then second peaking it on a weak signal(820mV). I chose a 1.5khz
signal using my calibrate marker as it is in the middle of my
bandwidth. With the AF control set at minimum, it is at -50dB level.
>
> I observed a definite increase in signal strength level of the
tone maximizing L19 and L20 for weak signal compared with just
adjusting it for 600mV but the noise floor came up about the same
amount...You can see this level change is slightlly higher on the
bottom graph. I did not notice any increase in noise or distortion
though. If I had to come up with a figure, I would say 2dB...I posted
the plots in the photos section. The comparison plot is 600mV on top
and 820mV on bottom. I wonder if the 600mV level was arrived at with
the original 1N60's as optimum signal to noise and minimum distortion.
The much quieter 1N5711's work well with maxing L19 and L20... I left
my 830S set for the higher peak. It is much easier to adjust there.
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> n9wb <n9wb@...> wrote: Rick:
>
> Would you like to play around and see what affect the level across
the resistor has on the S/n Ratio?
>
> Walt N9WB

>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.9/490 - Release Date:
10/20/06
>
>
> [Non-text portions of this message have been removed]
>

10521. Re: [TS-520_820_530_830] TS530 Final Board Check

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 23:23:36 UTC
From: Rich Jones
Topic: 10507 Message: 10521

First of all Gordon, I received the set of diodes, thank you very much! I am saving them for a snowy day this winter. I feel pretty cheap sending you only two bucks, your packaging a postage more than likely exceed one dollar. I hope to repay the favor some day.
I copied the following:

> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.

Every thing checked out perfect except R-7. Instead of the listed 12K I ohmed out 9.9K. I will replace it soon. Is there in your opinion such a thing as re-neutralizing the finals? Is there an advantage to doing that? I did re-check my bias and noticed it was at 70 VS 60 ma. I re-adjusted it of course. Any advise would be appreciated. I am still blowing 6amp fuses about 5 minutes into a QSO at 50 watts. Thanks, Rich
>

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10522. Re: [TS-520_820_530_830] Just to say G'day

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-23 23:51:36 UTC
From: John Harp
Topic: 10499 Message: 10522

Greetings to you Bill and welcome to the Kenood group. I'm John-KA3DPW in Parkesburg, Pennsylvania, United States.

I have two TS-830's and digital remote VFO230 with the matchin SP-230 speaker, an MC-50 microphone. Ijust bought a TV-502 to get a feel of VHF. Hopefully I find some resource for cables.I mostly at the persent operate 40 meters when I can.

Wander the archives for the needed information. We have a good set of resources here to meet the needs of the Kenwood tube Hybrids. Also we have people here in the group who come with different approaches to the subjects. So feel free to put an issue out that you need help with. There are others around with 530's here.

Some with repair shops, some you'lll find are considered guru's and in between various people with knowledges and experiences similar to what you will encounter yourself. You'll often find a question is raised and a number responses return back.

We also have sister groups. The Kenwood mics and Kenwood QSO's. We have been trying to get a net going her recently.

So join in the mix. Watch and you learn alot.
Bill <zl3nb@...> wrote:
Hello my name is Bill ZL3NB and new to the group. I have been a amateur since 1966 originally as WA3GLX. See www.qrz.com/zl3nb for details.

Have owned a Kenwood TS530S since new from 1983 along with the matching SP230 speaker and VFO240 VFO. It was my main station till just 2 years ago when a TS2000 was purchased but still use the "Old Steamer" on a regular basis and on the digital modes where it works like a charm.

The only real problem has been the Band switch but about 5 years ago I fixed it once and for all by removing the Driver Board and resoldering all of the joints from the switch on the board...It's been like new ever since. It's a easy radio to work with and have found under yearly maintenance and alignment they will run perfectly and even out due do some of the newer ones too. These radios have to be considered the "Best of the best" ever made and with the 500 and 270hz CW Filters installed...they're great on cw which is my preferred mode of operation.

73 de Bill ZL3NB

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10523. Re: [TS-520_820_530_830] Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 00:26:44 UTC
From: John Harp
Topic: 10496 Message: 10523

Congrats Max. Is the VFO working for you? your using what I used till I built the vertical.

max_ve3tmt <max_ve3tmt@...> wrote: Spent some time this weekend working the JARTS RTTY contest on the 830
and had a blast. In my limited time I made 88 contacts on 80, 40, 20
and a few on 15. My strung up 80m longwire at 25' managed to get me
into FLA and TX. If you have a narrow CW filter in your rig and
haven't done the mod yet, I highly recommend it. Being able to use the
500Hz filter on SSB was great in reducing the QRM. This 830 truly
performs just as well or better than my 850 on the receive side. I now
only need 7 states for my WAS award.

Max VE3TMT

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10524. Re: [TS-520_820_530_830] Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 00:35:26 UTC
From: John Harp
Topic: 10496 Message: 10524

Max, while wandering around searching for my information for my transverter I saw an idea on a web page. someone came up with an idea to use a port on the back to lower the sideband power for QRP. I'd like to try it. If I find it again are you interested?

max_ve3tmt <max_ve3tmt@...> wrote: Spent some time this weekend working the JARTS RTTY contest on the 830
and had a blast. In my limited time I made 88 contacts on 80, 40, 20
and a few on 15. My strung up 80m longwire at 25' managed to get me
into FLA and TX. If you have a narrow CW filter in your rig and
haven't done the mod yet, I highly recommend it. Being able to use the
500Hz filter on SSB was great in reducing the QRM. This 830 truly
performs just as well or better than my 850 on the receive side. I now
only need 7 states for my WAS award.

Max VE3TMT

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10525. Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 01:39:38 UTC
From: james27613
Topic: 10481 Message: 10525

hi,

I also have a ts-530 that had this switch added to it,
took it out right away, and did the warc wire clip
while I was inside cleaning with deoxit.

73 james

10526. Re: Just to say G'day

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 02:24:25 UTC
From: Bill
Topic: 10499 Message: 10526

Tnx for the welcome John. I lived many years up in Pottstown, home of the 147.21 machine prior to moving here in 86...Used to go through the WA3GMS Repeater on 147.195 (not sure if its still there or not)...

Yes looks like a good site as have been going back through some of the threads and the files.

Ill put together a list of littel quirks and fixes I have done on my TS530S over the years in due course Although one interesting item that comes up in the threads is Deoxit for the bandswitch. I used to use the standard CRC "CO" contact cleaner till they changed the chemicals in it and made it harmful to many plastics...Important to read "Warnings" on those cans as I knew one guy who used and it crack the waffer switch in the receiver of the switch! But ordinary contact cleaner is dry and in the end really does not solve or do the job right.

I found using CRC 5-56 a marine grade type good for both mechnical and electical use...That worked really great since not only did it cleaned the contacts but left a lubicating residue on them but the main culprit in the end was the solder joints where the switches go the driver board and that shaft coupler (inside the final compartment)...

My experience from those products is that I worked in the Elevator trade as a Electrican/Electronic Tech for many moons.

73 de Bill ZL3NB

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Greetings to you Bill and welcome to the Kenood group. I'm John-KA3DPW in Parkesburg, Pennsylvania, United States.
>
> I have two TS-830's and digital remote VFO230 with the matchin SP-230 speaker, an MC-50 microphone. Ijust bought a TV-502 to get a feel of VHF. Hopefully I find some resource for cables.I mostly at the persent operate 40 meters when I can.
>
> Wander the archives for the needed information. We have a good set of resources here to meet the needs of the Kenwood tube Hybrids. Also we have people here in the group who come with different approaches to the subjects. So feel free to put an issue out that you need help with. There are others around with 530's here.

>
> Some with repair shops, some you'lll find are considered
guru's and in between various people with knowledges and experiences
similar to what you will encounter yourself. You'll often find a
question is raised and a number responses return back.
>
> We also have sister groups. The Kenwood mics and Kenwood
QSO's. We have been trying to get a net going her recently.
>
> So join in the mix. Watch and you learn alot.
> Bill <zl3nb@...> wrote:
> Hello my name is Bill ZL3NB and new to the group. I have
been a
> amateur since 1966 originally as WA3GLX. See www.qrz.com/zl3nb for
> details.
>
> Have owned a Kenwood TS530S since new from 1983 along with the
> matching SP230 speaker and VFO240 VFO. It was my main station till
> just 2 years ago when a TS2000 was purchased but still use
the "Old
> Steamer" on a regular basis and on the digital modes where it
works
> like a charm.
>
> The only real problem has been the Band switch but about 5 years
ago
> I fixed it once and for all by removing the Driver Board and
> resoldering all of the joints from the switch on the board...It's
> been like new ever since. It's a easy radio to work with and have
> found under yearly maintenance and alignment they will run
perfectly
> and even out due do some of the newer ones too. These radios have
to
> be considered the "Best of the best" ever made and with the 500
and
> 270hz CW Filters installed...they're great on cw which is my
> preferred mode of operation.
>
> 73 de Bill ZL3NB
>
>
>
>
>
>
>
> ---------------------------------
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

10527. Re: Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 02:27:36 UTC
From: max_ve3tmt
Topic: 10496 Message: 10527

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Congrats Max. Is the VFO working for you? your using what I used till I built the vertical.

Hi John,

Yes the VFO is working just fine, in fact I use it for tuning the rig instead of the 830's VFO! I use an R7 on 40-10m on the longwire on 75/80m. Not the best setup but it does get me on the band. I don't venture down on 75m until winter time.

Max

10528. Re: [TS-520_820_530_830] TS530 Final Board Check

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 02:25:12 UTC
From: Rich Jones
Topic: 10507 Message: 10528

I think I answered one of my own questions by reading Walts file article on neutrailzing 6146 tubes.....

If you are installing new tubes or if the neutralization is considerably out.....Thanks for the great info in the archive files. Rich

Rich Jones <michjonezee@...> wrote:

First of all Gordon, I received the set of diodes, thank you very much! I am saving them for a snowy day this winter. I feel pretty cheap sending you only two bucks, your packaging a postage more than likely exceed one dollar. I hope to repay the favor some day.
I copied the following:

> Unplug the rig let the high voltage drain and then discharge it.
>
> Check the 10 ohm resistors on the Final Unit board R2 and R3, they are in parallel and should read 5 ohms. They can be measured in the circuit. Also see if they look damaged. Or get new ones at Radio Shack or Fry's and replace them. Use 1 watt only. DO NOT INCREASE THE WATTAGE. They double as a fuse.
>
> Next, look for a choke coil L1 connected to the bottom of the long plate choke. See if this looks fried. DO NOT replace it unless it looks burnt. If you do replace it, you will have to re-neutralize.
>
> On the high voltage unit find R5 and R6. These are 56K ohms 1/2 watt. Also find R-7 this is 12 K They also should be available at Radio Shack or Fry's. They should be replaced as preventative maintenance anyway. The smoke came from somewhere.
>
> Is the power output higher than usual on Tune? If so replacing R5 will fix that.
>
> Now, If you are not experienced in soldering, you can probably get by for now since the rig seems to be working. But if you are able to replace all of these resistors, it would be good preventative maintenance anyway. They are very inexpensive.

Every thing checked out perfect except R-7. Instead of the listed 12K I ohmed out 9.9K. I will replace it soon. Is there in your opinion such a thing as re-neutralizing the finals? Is there an advantage to doing that? I did re-check my bias and noticed it was at 70 VS 60 ma. I re-adjusted it of course. Any advise would be appreciated. I am still blowing 6amp fuses about 5 minutes into a QSO at 50 watts. Thanks, Rich
>

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10529. Re: Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 02:39:53 UTC
From: Ellen R
Topic: 10496 Message: 10529

Very true Max,

I've probably made DXCC several times over. It's just that being a
contester, I've never kept track of it.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > I assume you mean WAS RTTY. Do you Need Wisconsin, Max? I do
RTTY.
> >
> > Ellen - AF9J
>
> Ellen,
>
> As far as modes go I'm not sure what I have in each mode. I have
> Wisconsin in PSK. WAS on RTTY might be a nice goal to shoot for.
Right
> now it is mixed mode. I am half way to my DXCC as well. It is
amazing
> how quickly you can accumulate states and countries during a contest
> weekend!
>
> Max
>

10530. Re: [TS-520_820_530_830] Re: Just to say G'day

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 02:47:26 UTC
From: Rich Jones
Topic: 10499 Message: 10530

Nice to meet you Bill. I too am new to the group and it is fast becomming a ritual to daily read the posts and comments. Many have already been very helpful for me, I don't know how I surevied all these years without a computer. Any way, I too have gone the CRC route and of course whatever it was made of did no harm to my old Drake TR4 and TR4C equipment. You are however correct about the plastic issue. I have since switched to a product called Deox-Id. More than like a close of the Doxite. Either way you must take care with the Napha ingrediants in regards to venting. I have a TS530 on the bench now, I am blowing fuses about 5 mintues into a QSO. I will be ohming out the final filiments from info gleaned from a file article. More than like it will be my culprit. Take care and hope to hear from you again soon. Rich KG7FS

Bill <zl3nb@...> wrote: Tnx for the welcome John. I lived many years up in Pottstown, home of the 147.21 machine prior to moving here in 86...Used to go through the WA3GMS Repeater on 147.195 (not sure if its still there or not)...

Yes looks like a good site as have been going back through some of the threads and the files.

Ill put together a list of littel quirks and fixes I have done on my TS530S over the years in due course Although one interesting item that comes up in the threads is Deoxit for the bandswitch. I used to use the standard CRC "CO" contact cleaner till they changed the chemicals in it and made it harmful to many plastics...Important to read "Warnings" on those cans as I knew one guy who used and it crack the waffer switch in the receiver of the switch! But ordinary contact cleaner is dry and in the end really does not solve or do the job right.

I found using CRC 5-56 a marine grade type good for both mechnical and electical use...That worked really great since not only did it cleaned the contacts but left a lubicating residue on them but the main culprit in the end was the solder joints where the switches go the driver board and that shaft coupler (inside the final compartment)...

My experience from those products is that I worked in the Elevator trade as a Electrican/Electronic Tech for many moons.

73 de Bill ZL3NB

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Greetings to you Bill and welcome to the Kenood group. I'm John-KA3DPW in Parkesburg, Pennsylvania, United States.
>

> I have two TS-830's and digital remote VFO230 with the matchin
SP-230 speaker, an MC-50 microphone. Ijust bought a TV-502 to get a
feel of VHF. Hopefully I find some resource for cables.I mostly at
the persent operate 40 meters when I can.
>
> Wander the archives for the needed information. We have a good
set of resources here to meet the needs of the Kenwood tube Hybrids.
Also we have people here in the group who come with different
approaches to the subjects. So feel free to put an issue out that
you need help with. There are others around with 530's here.
>
> Some with repair shops, some you'lll find are considered
guru's and in between various people with knowledges and experiences
similar to what you will encounter yourself. You'll often find a
question is raised and a number responses return back.
>
> We also have sister groups. The Kenwood mics and Kenwood
QSO's. We have been trying to get a net going her recently.
>
> So join in the mix. Watch and you learn alot.
> Bill <zl3nb@...> wrote:
> Hello my name is Bill ZL3NB and new to the group. I have
been a
> amateur since 1966 originally as WA3GLX. See www.qrz.com/zl3nb for
> details.
>
> Have owned a Kenwood TS530S since new from 1983 along with the
> matching SP230 speaker and VFO240 VFO. It was my main station till
> just 2 years ago when a TS2000 was purchased but still use
the "Old
> Steamer" on a regular basis and on the digital modes where it
works
> like a charm.
>
> The only real problem has been the Band switch but about 5 years
ago
> I fixed it once and for all by removing the Driver Board and
> resoldering all of the joints from the switch on the board...It's
> been like new ever since. It's a easy radio to work with and have
> found under yearly maintenance and alignment they will run
perfectly
> and even out due do some of the newer ones too. These radios have
to
> be considered the "Best of the best" ever made and with the 500
and
> 270hz CW Filters installed...they're great on cw which is my
> preferred mode of operation.
>
> 73 de Bill ZL3NB
>

>
>
>
>
>
> ---
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10531. Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 02:59:27 UTC
From: Bill Scurlock
Topic: 10481 Message: 10531

James,

It must have been contagious because my TS-530 came with the same switch mounted on the back. Took it out, tied the two wires together, made the WARC mods, and everything worked fine.

73, Bill, K5GCW
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 8:39 PM
Subject: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

hi,

I also have a ts-530 that had this switch added to it,
took it out right away, and did the warc wire clip
while I was inside cleaning with deoxit.

73 james

[Non-text portions of this message have been removed]

10532. DE KE7GGV to help my fellow hams....spanish

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 04:28:12 UTC
From: Gerald R.Gaule
Topic: 10532 Message: 10532

I have been asked to post my copy of the A.R.R.L HOLA CQ Mp3 zip file (low bitrate)and my Spanish Cheat Sheet for Spanish HAM phrases...."ARRL HOLA CQ"..Tape w/manual..written by AF2Y-CHARLES SCHWARTZBARD...I do not have the manual...but I have the audio....it was done in the 80's...I would love to share....I decided to learn spanish with my DX..

Thank you all..DE KE7GGV....73
ke7ggv@...

http://groups.yahoo.com/group/vgG5RV/

10533. TS-830 Rectifier Unit Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 05:46:46 UTC
From: jsloss
Topic: 10533 Message: 10533

Is there a generic replacement for D8-D11 (VO3C) or do they have to be ordered from Knwd.
Thanks.

Joe k7mks

[Non-text portions of this message have been removed]

10534. Re: [TS-520_820_530_830] TS-830 Rectifier Unit Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 06:03:10 UTC
From: Peter A Markavage
Topic: 10533 Message: 10534

1N4004 or 1N4007 will good fine in place of the VO3C.

Pete, wa2cwa

On Mon, 23 Oct 2006 22:46:46 -0700 "jsloss" <k7mks@...> writes:
> Is there a generic replacement for D8-D11 (VO3C) or do they have to
> be ordered from Knwd. Thanks.
>
> Joe k7mks
>

10535. Re: [TS-520_820_530_830] TS-830 Rectifier Unit Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 06:14:54 UTC
From: jsloss
Topic: 10533 Message: 10535

Thanks Pete. I suspected as much but a 2nd opinion is always nice.

Joe----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 11:03 PM
Subject: Re: [TS-520_820_530_830] TS-830 Rectifier Unit Diodes

1N4004 or 1N4007 will good fine in place of the VO3C.

Pete, wa2cwa

On Mon, 23 Oct 2006 22:46:46 -0700 "jsloss" <k7mks@...> writes:
> Is there a generic replacement for D8-D11 (VO3C) or do they have to
> be ordered from Knwd. Thanks.
>
> Joe k7mks
>

[Non-text portions of this message have been removed]

10536. 820 is working!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 06:56:28 UTC
From: w5rkl
Topic: 10536 Message: 10536

This evening I decided to perform some more indept continuity checks from the function switch center wiper, through the control and voltage paths to their destinations on the various boards. Everything seem to check fine. The checks were performed using a wire connected to the VOM probes and pushed down in each boards plug wiring pin. The only check I couldn't do that with was the calibrator, the pins are either soldered or wire wrapped. Once I was satisified that all function switch center wipers had been checked good with every wafer pin and wiring path, I removed all the meter leads and wiring.

Just for grins, I moved some of the wiring on the bottom rear of the chassis in the event one or more of them were shorted to ground etc. I had done that before with no change in symptoms. I made sure every plug and the relay was back in its socket, pins 8 and 9 on the rear 9 pin VFO socket were shorted and powered up the 820. The receiver came right up with lots of audio.

I let the receiver run for a while, tuning around 40 meter CW band. I decided to tune the 8.830Mhz traps, L24 and L25 on the coil pack. Injected an 8.830Mhz signal at the so-239 and adjusted L24 and L25, 4 or 5 times to ensure minimum S meter reading then injected a 7.150Mhz signal and adjusted the antenna and mixer coils on the coil pack board. I noticed the sensitivity was a bit low, about 15 db. Why this is I'm not sure at this point. For now, I'm happy the receiver is working like it should. I tuned up the transmitter which needs the driver tuned since I can only get about 85 watts on 40 meters. I haven't tried the other bands yet but I'm sure adjusting the driver coils on the coil pack board will increase the output to 100 watts. The 820 has a new matched set of finals and neutralization doesn't appear, at this point, to be needed.

So, what good came from this? The following are some of my thoughts on the subject. First, I found the TS-820 is a very well built and designed transceiver except for those plastic board plugs and pins. I don't think much of Kenwoods circuit discription and schematic either. However, all that said, the following is a summary of what I believe to be important troubleshooting techniques on an 820.

1. Do not rely on a voltage reading by pushing a meter lead into the boards plug. The wire may show a voltage but does the board see the voltage? In this case, now it didn't.

2. Verify all voltage, +5, -6, +9 and +14 and 14A along with -C, and that they are at the source and also the destination, on the board not just the plug itself. On the board can be checked by placing the volt meter on the boards pin and a ajacent component leading to that pin.

You may need to scrape some paint off the component lead to make the measurement. Also check the low and high voltages for the driver and final amplifier at the source and destination. If they are at the source but not at the destination, there's either a shorted wire to ground which should have either blown the fuse or cause a visual indication you can see. If there isn't a short then there is a broken wire in the wiring harness more than likely. A few visual indication examples are no lights (check them for continuity with an ohm mete), one or more LEDs do not illuminate or functions/modes don't work.

3. If the transmitter is working fine and the display is stable and follows the main tuning knob without jumping around, then you can be satified that ALL frequency generating circuits are working. What about the receiver you may ask? The receiver uses the same frequency generating circuits the transmitter does. That means the VCO, PLL, VFO (both internal and external), hetrodyne and carrier oscillators are used in transmit as well as receive. The 820 is a single conversion system and the frequency generating circuits run continuously and are diode and relay switched by voltages from receive to transmit and back. So if one or the other modes, transmit or receive, is working only clean the board contacts and leave the adjustments alone. Like they say, "If it ain't broke, no fix it" or you'll create more problems.

4. Don't relay on the schematic voltage readings, check them yourself. There are a number of errors on the schematic and PC foil diagrams. Some erros are jumper and foil side resistors are shown on the foil diagram in the service manual but are not in the radio. Why this is I'm not sure. More than likely, a later version of the radio. Most likely serial number versions. I found a number of these errors in my 820. The voltages should be checked in the RF amp. As Clif pointed out and I saw it myself, the RF amp board has incorrect voltage reading on Q4. Q4 is an NPN transistor and if you look on the schematic, you will notice the collector has -13 volts, the base has -C and the emitter has -6 volts. Now an NPN or a PNP will NEVER work with all positive or all negative voltages applied to the collector, base and emitter. So check the voltages to be absolutely sure.

5. Do not rely simply on cleaning a switch. That can, with intermittent problems in a switch, clear up a problem. However, in this case, it did absolutely nothing but clean the switch. Do not dismantle the switch, you will be sorry if you do. No I didn't do that. Instead, I performed an indept continuity check throughout the circuit to ensure the switch is good. I found out that simply removing the switch from the front panel just to check it was a waste of time. The entire switch can be thoroughly checked including the wiring that connects to the swith without removing the switch from the front panel. Simply look at the BIG schematic, follow the wiring and use an anologe Ohm meter to check the switch. Pay attention to what you see on the schematic, the switch must be viewed from the otherside of the page, like your looking at the schematic from the back side of the paper. Failure to do this will give you a wrong or misleading reading

from what the schematic shows.

6. Look at the biasing voltages that turn circuits on and off. If the voltage is consistant keeping a circuit turned off when you know it should be on, look at the wiring, you most likely have an "OPEN" somewhere on another control voltage that affects the one you're looking at. What gave me that idea was, the receiver worked like a champ if I put the function switch midway between VFO and VFO R. There had to be an open somewhere and that's the reason I did the indepth continuity check this evening.

These are only a few things that I wanted to pass on to everyone working on an 820. Although the 520 is similiar, there are alot of difference but if you are persistant, you will find the problem. Take alot of breaks, the constant troubleshooting can tire you out and cause you do "repeat" steps you do not need to do. Only repeat a step if you are unsure of the results. Above all, take you time and learn something from your troubleshooting experience. One last thing. While you have each circuit board out, clean every interconnecting pin with DeoXit especially the PLL, Hetrodyne and carrier oscillator boards. You'll thank yourself later as these are problematic causing the VFO to jump around. Don't forget the VFO, clean the variable capacitors shaft tension spring contact point, again, you'll thank yourself as this too is an area of instability in the VFO.

I applogize for being so long but this problem was a real bugger. I can not say with any certainty that you will experience the same result I did if you have a similiar problem. I can only pass on to you some helpful information on troubleshooting a TS-820/820(S). By the way, the only difference between an 820 and and 820(s) is the digital read out. Everything else is the same, or so it seems, or does it?

73's,

Mike
W5RKL

10537. Re: [TS-520_820_530_830] TS-830 Rectifier Unit Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 06:59:47 UTC
From: Peter A Markavage
Topic: 10533 Message: 10537

And it would read better if I could write what I was thinking.

Pete, wa2cwa

On Mon, 23 Oct 2006 23:14:54 -0700 "jsloss" <k7mks@...> writes:
> Thanks Pete. I suspected as much but a 2nd opinion is always nice.
>
> Joe----- Original Message -----
> From: Peter A Markavage
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, October 23, 2006 11:03 PM
> Subject: Re: [TS-520_820_530_830] TS-830 Rectifier Unit Diodes
>
>
> 1N4004 or 1N4007 will good fine in place of the VO3C.
>
> Pete, wa2cwa
>
> On Mon, 23 Oct 2006 22:46:46 -0700 "jsloss" <k7mks@...>
> writes:
> > Is there a generic replacement for D8-D11 (VO3C) or do they have
> to
> > be ordered from Knwd. Thanks.
> >
> > Joe k7mks
> >

10538. S -meter /25Khz tone question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 07:45:46 UTC
From: Greg
Topic: 10538 Message: 10538

Can someone pls check and tell me if your s-meter deflects when the 25 Khz alignment tone is on? Should I get a full scale deflection, assuming AGC is on either slow or fast?

TX..I'm trying to troublshoot inoperative S-meter on receive.

73 Greg

10539. Re: [TS-520_820_530_830] S -meter /25Khz tone question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 10:15:33 UTC
From: David Rust
Topic: 10538 Message: 10539

Greg, my S meter on my 530s reads about an S9 with the calibrator turned on. My 830S just the last couple days hardly reads at all, and in the AGC position on transmit just sits on the peg. I know the radio is working ok, I am getting the usual voice peaks on my antenna tuner/watt meter. So I probably have the same problem as you with the S/AGC meter position. I havent dug into this problem yet, I was going to start with a good Deoxit cleaning on everything, including the relay.
73 Dave W0DLR

[Non-text portions of this message have been removed]

10540. Re: [TS-520_820_530_830] Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 11:02:13 UTC
From: Joan de vk5kyo
Topic: 10481 Message: 10540

Hi Chris

When I first got my TS830, I too got tricked when I released the Noise Blanker switch and suddenly lost 3 bands.
In my case the noise blanker switch was wired on permanently, and the switch re used for another purpose.
The modification allows operation on 27MHz, by selecting the 29MHz band and throwing the switch.
However you still have to mentally subtract 2 MHz of the frequency displayed. A crude mod, but effective.
The switch is in the closed position for normal operation, and open for 27MHz.
The modification is easily reversed, and should be done for originality.

Joan VK5KYO

> -
> I found the problem with the 3 bands dead, Someone in the past of this
> radio installed a switch in the back of the radio. They did a very
> poor job of install. The wire came out of the plug that they were in.
> I am going to talk with my friend and find out what this switch is for.
> Chris W7CTH
> Boise Idaho
>
>
>

[Non-text portions of this message have been removed]

10541. Re: TS-830 Rectifier Unit Diodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 12:00:32 UTC
From: digs4ruff
Topic: 10533 Message: 10541

Joe
The NTE cross reference lists this as a common rectifier diode rated
at 600V 1A (NTE 116)
The following should do the job
1N4005 600V 1A
1N4006 800V 1A
1N4007 1000V 1A
regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...>
wrote:
>
> Is there a generic replacement for D8-D11 (VO3C) or do they have
to be ordered from Knwd. Thanks.
>
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

10542. RE: [TS-520_820_530_830] S -meter /25Khz tone question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 12:51:47 UTC
From: Darwin, Keith
Topic: 10538 Message: 10542

I calibrated my S-meter to read S-9 with 50 uV to the antenna terminal (from Elecraft XG2 generator). The 25 KHz calibrator reads about S-8.5 IIRC. I get the most deflection in CW-W with the VBT at it's widest, and less at the narrow bandwidth settings.

- Keith KD1E -

-----Original Message-----
From: Greg

Can someone pls check and tell me if your s-meter deflects when the 25 Khz alignment tone is on? Should I get a full scale deflection, assuming AGC is on either slow or fast?

10543. Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 13:02:45 UTC
From: Chris HEmbree
Topic: 10481 Message: 10543

Were the wires going to the display board?
Chris..

Bill Scurlock <k5gcw@sbcglobal.net> wrote: James,

It must have been contagious because my TS-530 came with the same switch mounted on the back. Took it out, tied the two wires together, made the WARC mods, and everything worked fine.

73, Bill, K5GCW
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 8:39 PM
Subject: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

hi,

I also have a ts-530 that had this switch added to it,
took it out right away, and did the warc wire clip
while I was inside cleaning with deoxit.

73 james

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10544. Re: [TS-520_820_530_830] Re: 3 bands dead

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 13:01:30 UTC
From: Chris HEmbree
Topic: 10481 Message: 10544

Maybe this was it.I put the radio back to the right way. I don't care about 27mhz.
Thanks guys
Chris.

Joan de vk5kyo <VK5KYO@...> wrote: Hi Chris

When I first got my TS830, I too got tricked when I released the Noise
Blanker switch and suddenly lost 3 bands.
In my case the noise blanker switch was wired on permanently, and the
switch re used for another purpose.
The modification allows operation on 27MHz, by selecting the 29MHz band
and throwing the switch.
However you still have to mentally subtract 2 MHz of the frequency
displayed. A crude mod, but effective.
The switch is in the closed position for normal operation, and open for
27MHz.
The modification is easily reversed, and should be done for originality.

Joan VK5KYO

> -
> I found the problem with the 3 bands dead, Someone in the past of this
> radio installed a switch in the back of the radio. They did a very
> poor job of install. The wire came out of the plug that they were in.
> I am going to talk with my friend and find out what this switch is for.
> Chris W7CTH
> Boise Idaho
>
>
>

[Non-text portions of this message have been removed]

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10545. Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 13:33:16 UTC
From: Bill Scurlock
Topic: 10481 Message: 10545

Chris.

This was almost a year ago so I don't remember much detail. I think that a wire had been cut just after it came out of a plug, and this was located just toward the front of the radio from center. The switch was wired to the two cut ends of the wire, and either opened them or reconnected them. All I did was remove the switch and extra wiring, and solder the original wires back togather and the display worked normally. Sorry I didn't document the details of what I found.

73, Bill, K5GCW
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 24, 2006 8:02 AM
Subject: Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

Were the wires going to the display board?
Chris..

Bill Scurlock <k5gcw@...> wrote: James,

It must have been contagious because my TS-530 came with the same switch mounted on the back. Took it out, tied the two wires together, made the WARC mods, and everything worked fine.

73, Bill, K5GCW
----- Original Message -----
From: james27613
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, October 23, 2006 8:39 PM
Subject: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

hi,

I also have a ts-530 that had this switch added to it,
took it out right away, and did the warc wire clip
while I was inside cleaning with deoxit.

73 james

[Non-text portions of this message have been removed]

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10546. TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 13:41:04 UTC
From: Ken Gunton
Topic: 10441 Message: 10546

Just saw this on eham this morning:

10/24/06
AB8JN
HF Radios

Kenwood TS 830S

Kenwood TS 830S Gold. Appearance is a 7+. Has the
WARC bandas. This unit has low output. I dont
have the time to work on it. It has one TRIO
ssb filter installed. No manual or mic-just
the radio. The radio has been sitting idle for
the last five years. It was a backup rig only.

$295.00. You pay shipping. 586-549-3604

Just passing it along FWIW.

10547. Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 14:35:27 UTC
From: BRENT BAUM
Topic: 10481 Message: 10547

It must have been an epidemic of 11 meter-ism. You're lucky it was just a switch. I had to replace all the 10 meter crystals to undo the mod in my 520SE.
de Brent, K7MEI.

>From: "Bill Scurlock" <k5gcw@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of
>rig)
>Date: Tue, 24 Oct 2006 08:33:16 -0500
>
>Chris.
>
>This was almost a year ago so I don't remember much detail. I think that a
>wire had been cut just after it came out of a plug, and this was located
>just toward the front of the radio from center. The switch was wired to
>the two cut ends of the wire, and either opened them or reconnected them.
>All I did was remove the switch and extra wiring, and solder the original
>wires back togather and the display worked normally. Sorry I didn't
>document the details of what I found.
>
>73, Bill, K5GCW
> ----- Original Message -----
> From: Chris HEmbree
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 24, 2006 8:02 AM
> Subject: Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear
>of rig)
>
>
> Were the wires going to the display board?
> Chris..
>
> Bill Scurlock <k5gcw@...> wrote: James,
>
> It must have been contagious because my TS-530 came with the same switch
>mounted on the back. Took it out, tied the two wires together, made the
>WARC mods, and everything worked fine.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: james27613
> To: TS-520_820_530_830@yahoogroups.com

> Sent: Monday, October 23, 2006 8:39 PM
> Subject: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of
>rig)
>
> hi,
>
> I also have a ts-530 that had this switch added to it,
> took it out right away, and did the warc wire clip
> while I was inside cleaning with deoxit.
>
> 73 james
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+
>countries) for 2?/min or less.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>[Non-text portions of this message have been removed]
>

10548. Re: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 14:45:53 UTC
From: Joan de vk5kyo
Topic: 10481 Message: 10548

Hi Chris.

Here is some details I found in an old posting back in May.
"I followed the NB switch wires and it appears to break the R62 (pin 2
of plug C) lead on the PLL board. "

My switch definetly did not go to the display, but maybe it is a way of
correcting the 2 MHz offset I mentioned earlier.
Maybe the group can answer this. For those familiar with the CB
modification, does the display actually display 27 MHz or 29 MHz.
I am half suspecting that there maybe 2 parts to the mod.
1. Trick the PLL.
2. Correct the display offset.
If I am correct, then I'd say, my TS-830 never had the 2nd mod. fitted,
and that you may still be missing 3 bands even when you remove your
modification.
Chris can you confirm if your bands are restored just by removing the
display mod?
If it does not, check all switches for functionality, because maybe
someone has used one of the original switches to trick the PLL.
There is of coarse the other possibility that different modifications
can achieve the same result. It's a funny saying but "There is more than
one way to skin a cat".
Let us know how you go.

Joan VK5KYO

Chris HEmbree wrote:

> Were the wires going to the display board?
> Chris..
>
> Bill Scurlock <k5gcw@... <mailto:k5gcw%40sbcglobal.net>>
> wrote: James,
>
> It must have been contagious because my TS-530 came with the same
> switch mounted on the back. Took it out, tied the two wires together,
> made the WARC mods, and everything worked fine.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: james27613
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Monday, October 23, 2006 8:39 PM

> Subject: [TS-520_820_530_830] Re: 3 bands dead (switch added at rear
> of rig)
>
> hi,
>
> I also have a ts-530 that had this switch added to it,
> took it out right away, and did the warc wire clip
> while I was inside cleaning with deoxit.
>
> 73 james
>
> [Non-text portions of this message have been removed]
>
>
>
>

[Non-text portions of this message have been removed]

10549. Re: 3 bands dead (switch added at rear of rig)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 16:50:35 UTC
From: max_ve3tmt
Topic: 10481 Message: 10549

--- In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo <VK5KYO@...>
wrote:
>
> Hi Chris.
>
> Here is some details I found in an old posting back in May.
> "I followed the NB switch wires and it appears to break the R62 (pin 2
> of plug C) lead on the PLL board. "
>
> My switch definetly did not go to the display, but maybe it is a way of
> correcting the 2 MHz offset I mentioned earlier.
> Maybe the group can answer this. For those familiar with the CB
> modification, does the display actually display 27 MHz or 29 MHz.
> I am half suspecting that there maybe 2 parts to the mod.
> 1. Trick the PLL.
> 2. Correct the display offset.
> If I am correct, then I'd say, my TS-830 never had the 2nd mod. fitted,
> and that you may still be missing 3 bands even when you remove your
> modification.
> Chris can you confirm if your bands are restored just by removing the
> display mod?
> If it does not, check all switches for functionality, because maybe
> someone has used one of the original switches to trick the PLL.
> There is of coarse the other possibility that different modifications
> can achieve the same result. It's a funny saying but "There is more
than
> one way to skin a cat".
> Let us know how you go.
>
> Joan VK5KYO

Maybe this has something to do with it....

http://www.n9efj.net/TS830.html

Max VE3TMT

10550. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 16:56:22 UTC
From: Rick KC0HH
Topic: 10441 Message: 10550

Hi Walt,

When I peaked L19, the signal came up a bit. The service manual say to adjust L20 counterclockwise so I turned L20 1/4 turn clockwise and then back counterclockwise until the signal peaked and the level came up even more. I went back a forth a couple times peakinig the signal. When I turned off the calibrate signal, I checked the RF VTVM and it checked .293V on both LSB/USB...If I convert correctly, that is 820mV p-p....That is within the 1dB specified by the service manual. I can't detect any distortion on my spectrum analyzer software doing it this way and the recovered audio sounds fine. I am going to check my other 830S when I have time.... I wish someone with better test equipment could compare these settings.

I don't know if there is something I am missing doing it this way but it seems too easy. The 600mV level is very tedious to set. This way takes less than 30 seconds.

Rick KC0HH

n9wb <n9wb@...> wrote: Rick:
Did it still have to be tweaked for balance between USB and LSB after maxing them out ?
Walt.

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10551. Re: S -meter /25Khz tone question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 17:12:14 UTC
From: geopsychic
Topic: 10538 Message: 10551

Hi Greg,

My 820S reads an S9 with the RF Gain full CW.
Good luck, 73, jay

--- In TS-520_820_530_830@yahoogroups.com, "Greg" <va3vfo@...> wrote:
>
> Can someone pls check and tell me if your s-meter deflects when the 25
> Khz alignment tone is on? Should I get a full scale deflection,
> assuming AGC is on either slow or fast?
>
> TX..I'm trying to troublshoot inoperative S-meter on receive.
>
> 73 Greg
>

10552. Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 17:56:08 UTC
From: Ellen R
Topic: 10441 Message: 10552

Considering that it's low output, could just be bad finals, a wimpy driver tube, mistuned band coil packs, or a weak VFO, it might be worth pursuing for $295.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
>
> Just saw this on eham this morning:
>
> 10/24/06
> AB8JN
> HF Radios
>
> Kenwood TS 830S
>
> Kenwood TS 830S Gold. Appearance is a 7+. Has the
> WARC bandas. This unit has low output. I dont
> have the time to work on it. It has one TRIO
> ssb filter installed. No manual or mic-just
> the radio. The radio has been sitting idle for
> the last five years. It was a backup rig only.
>
> $295.00. You pay shipping. 586-549-3604
>
>
> Just passing it along FWIW.
>

10553. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 18:29:30 UTC
From: David Rust
Topic: 10441 Message: 10553

Ellen, I bought an 830s in VERY nice condition with low output from a reputable dealer for $250. They also told me what was wrong with it, however, wasn't that at all. Needed new filter capacitors. I installed that and away it went, now I have an S/AGC problem, shouldn't be too hard to remedy, in fact I may be responsible for that. I adjusted it a few days ago with the calibrator on and may have not set it correctly.
Dave W0DLR

[Non-text portions of this message have been removed]

10555. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 19:09:32 UTC
From: Darwin, Keith
Topic: 10441 Message: 10555

A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW filters, but very clean, SN 7xxxxxx with the manual. Worked 100%, full output, one bulb burned out and a swapped in 3 prong power cord.

The one I have now cost me $375 with 2 CW filters, full output, everything working FB, SN 4xxxxxx.

I'm thinking $300 for one with weak output is just a tad high unless the rest of it is in exceptional shape.

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of David Rust
Sent: Tuesday, October 24, 2006 2:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Ellen, I bought an 830s in VERY nice condition with low output from a reputable dealer for $250. They also told me what was wrong with it, however, wasn't that at all. Needed new filter capacitors. I installed that and away it went, now I have an S/AGC problem, shouldn't be too hard to remedy, in fact I may be responsible for that. I adjusted it a few days ago with the calibrator on and may have not set it correctly.
Dave W0DLR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

10556. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 19:33:59 UTC
From: Rich Jones
Topic: 10441 Message: 10556

Kenwood TS 830 Gold Edition Reply by WA2TCQ on February 8, 2004 Mail this to a friend! Can anyone tell me what the difference is between the TS 830 and the TS830 Gold Edition is? How is it noted on the rig that it is the Gold version vs standard?

Tnx Tom RE: Kenwood TS 830 Gold Edition Reply by N3BIF on February 8, 2004 Mail this to a friend! BENEATH THE MAIN TUNING KNOB is a stick on metal plate which proclaims it to be so. That plate is the only differnce....(there are probably more golds out there than regulars so in our twisted world the regulars should be more valuable)

The fellow selling the TS830 Gold lives about an hour and a half from me. I have a phone call into him to take a look at it and hopefully fire it up. Will keep you all informed.

David Rust <dlrust@...> wrote:
Ellen, I bought an 830s in VERY nice condition with low output from a reputable dealer for $250. They also told me what was wrong with it, however, wasn't that at all. Needed new filter capacitors. I installed that and away it went, now I have an S/AGC problem, shouldn't be too hard to remedy, in fact I may be responsible for that. I adjusted it a few days ago with the calibrator on and may have not set it correctly.
Dave W0DLR

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10557. qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 19:54:59 UTC
From: va3slj
Topic: 10557 Message: 10557

I would like to lower the output on an 830s for qrp, and found the schematic in the files section, but it says it's for the 520. Will the same method work on an 830s or cause damage, or is there a better way to lower output on SSB for the 830s. I am using the rig for CW qrp now, but would like to explore SSB.

thanks and 73,
Scott, VA3SLJ

10558. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 20:14:01 UTC
From: wf2u@starband.net
Topic: 10441 Message: 10558

I've been lurking here since I bought a "great condition" - so said the ad - TS-830S Gold for $325, from the seller's friend's estate. I don't have it yet, it's on its way. I hope it's as described...

This is going to be my first TS-830 (I have another hybrid, and old National NCX-1000) - I'm basically a "boatanchor" person... My most modern rig is a TS-480SAT which I'm using on MARS.

What I managed to find out about the TS-830 Gold version is (besides the label" that it should have all the filter options factory installed.

73, Meir WF2U
Landrum, SC

> A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> filters, but very clean, SN 7xxxxxx with the manual. Worked 100%, full
> output, one bulb burned out and a swapped in 3 prong power cord.
>
> The one I have now cost me $375 with 2 CW filters, full output,
> everything working FB, SN 4xxxxxx.
>
> I'm thinking $300 for one with weak output is just a tad high unless the
> rest of it is in exceptional shape.
>
> - Keith KD1E -
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of David Rust
> Sent: Tuesday, October 24, 2006 2:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale
>
> Ellen, I bought an 830s in VERY nice condition with low output from a
> reputable dealer for $250. They also told me what was wrong with it,
> however, wasn't that at all. Needed new filter capacitors. I installed
> that and away it went, now I have an S/AGC problem, shouldn't be too
> hard to remedy, in fact I may be responsible for that. I adjusted it a
> few days ago with the calibrator on and may have not set it correctly.
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>
>
>
>

> Yahoo! Groups Links

10559. Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 20:22:44 UTC
From: Gerald R.Gaule
Topic: 10557 Message: 10559

--- In TS-520_820_530_830@yahoogroups.com, "va3slj" <scottj@...> wrote:
>
> I would like to lower the output on an 830s for qrp, and found the
> schematic in the files section, but it says it's for the 520. Will
the
> same method work on an 830s or cause damage, or is there a better way
> to lower output on SSB for the 830s. I am using the rig for CW qrp
> now, but would like to explore SSB.
>
> thanks and 73,
> Scott, VA3SLJ
>
I would like to know the same for...TS 820S...Please..THX DE
KE7GGV...and are there any QRP KENWOOD GROUPS????

73 to all....

10561. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 20:31:49 UTC
From: N6WK
Topic: 10441 Message: 10561

Meir,
That is NOT true about the Gold having all the filters factory
installed. I have owned two of them, both from the original owners, one
did have all the filters installed. It was obvious that the other
never had !
The ONLY difference I have found on the gold and the Silver is, The gold
has the Gold Label and 1 meter lamp, while the silver had the silver
label and 2 meter lamps..
Where did you hear that information ?

73,
Gordon

wf2u@... wrote:

> I've been lurking here since I bought a "great condition" - so said
> the ad -
> TS-830S Gold for $325, from the seller's friend's estate. I don't have it
> yet, it's on its way. I hope it's as described...
>
> This is going to be my first TS-830 (I have another hybrid, and old
> National NCX-1000) - I'm basically a "boatanchor" person... My most modern
> rig is a TS-480SAT which I'm using on MARS.
>
> What I managed to find out about the TS-830 Gold version is (besides the
> label" that it should have all the filter options factory installed.
>
> 73, Meir WF2U
> Landrum, SC
>
> > A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> > filters, but very clean, SN 7xxxxxx with the manual. Worked 100%, full
> > output, one bulb burned out and a swapped in 3 prong power cord.
> >
> > The one I have now cost me $375 with 2 CW filters, full output,
> > everything working FB, SN 4xxxxxx.
> >
> > I'm thinking $300 for one with weak output is just a tad high unless the
> > rest of it is in exceptional shape.
> >
> > - Keith KD1E -
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com

> <mailto:TS-520_820_530_830%40yahoogroups.com>] On Behalf Of David Rust
> > Sent: Tuesday, October 24, 2006 2:30 PM
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale
> >
> > Ellen, I bought an 830s in VERY nice condition with low output from a
> > reputable dealer for $250. They also told me what was wrong with it,
> > however, wasn't that at all. Needed new filter capacitors. I installed
> > that and away it went, now I have an S/AGC problem, shouldn't be too
> > hard to remedy, in fact I may be responsible for that. I adjusted it a
> > few days ago with the calibrator on and may have not set it correctly.
> > Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
>
>

[Non-text portions of this message have been removed]

10562. Re: Praise for my 830 (QRP modification)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 20:41:51 UTC
From: james27613
Topic: 10496 Message: 10562

hi john,

we have this info here in the MODS folder in files section,

Use ALC input to 'force' QRP operation.jpg

I'm not the author but I did pass this on to the list.

73 james

10563. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 20:33:43 UTC
From: Rich Jones
Topic: 10441 Message: 10563

I just spoke to the fellow with the TS830 Gold. I offered him $250 sight unseen but he is firm on the $295.00. From speaking with him I don't think he has used it much. He has an Icom 746 Pro that he has been using for some time. I asked him if he check or changed out the 12BY7 and he said no but he had one and would try it out. Everything sounds up and up. I didn't know about the "all filters" in a Gold version. Thank would add at least a hundred and 25 bucks to any rig's value. You all go for it if you want, it will be interesting to see what ends up happening. Rich KG7FS

wf2u@starband.net wrote: I've been lurking here since I bought a "great condition" - so said the ad -
TS-830S Gold for $325, from the seller's friend's estate. I don't have it yet, it's on its way. I hope it's as described...

This is going to be my first TS-830 (I have another hybrid, and old National NCX-1000) - I'm basically a "boatanchor" person... My most modern rig is a TS-480SAT which I'm using on MARS.

What I managed to find out about the TS-830 Gold version is (besides the label" that it should have all the filter options factory installed.

73, Meir WF2U
Landrum, SC

> A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> filters, but very clean, SN 7xxxxxx with the manual. Worked 100%, full
> output, one bulb burned out and a swapped in 3 prong power cord.
>
> The one I have now cost me $375 with 2 CW filters, full output,
> everything working FB, SN 4xxxxxx.
>
> I'm thinking $300 for one with weak output is just a tad high unless the
> rest of it is in exceptional shape.
>
> - Keith KD1E -
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of David Rust
> Sent: Tuesday, October 24, 2006 2:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale
>
> Ellen, I bought an 830s in VERY nice condition with low output from a
> reputable dealer for $250. They also told me what was wrong with it,
> however, wasn't that at all. Needed new filter capacitors. I installed
> that and away it went, now I have an S/AGC problem, shouldn't be too

> hard to remedy, in fact I may be responsible for that. I adjusted it a
> few days ago with the calibrator on and may have not set it correctly.
> Dave W0DLR
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10564. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 21:56:35 UTC
From: Kevin Hunter
Topic: 9760 Message: 10564

Good afternoon everyone. I figured I should post an update to let everyone know how this project has been going.

Walt - I apologize for not replying to your previous post. I just overlooked it until I sat down to write this reply.

I have the rig on the air and just made a contact on 40 meters with it. It is certainly usable now. Audio and signal reports were favorable with nothing objectionable noted. I have a couple of questions that I will pose to the group in a moment.

Here is all that comes to mind about what I did to try to get this rig operational again. I thoroughly checked all of the components on the rectifier board as one person suggested. I found nearly all of the carbon comp resistors on that board were out of specification. Most were probably within range of what would be expected given their age. I found one of the 470K resistors was completely out of range. I wish I was able to tell everyone exactly which one it was. As I said before, nearly all of them were outside of the stated tolerance. After finding that, I just started removing them from the board and throwing them in a pile. I had decided to replace all of the resistors on the board. Once I had them all in a pile, I began checking them again. That is when I found one that checked way high. Again, I don't know which position it came from. I can only say that the markings indicated it was one that should have been 470K.

I found that the cathode resistors I had previously replaced were up around 30 ohms now. I replaced those again.

Several of the .047 ceramic disk caps on the final board looked as if the edges were eroding away. I'm not sure if that was from physical wear from me having the board in and out so much or from an electrical problem. They did not appear to have been overheated and were not shorted. In any event, I replaced all of them that appeared suspect.

I also began to wonder if my "new" tubes may, in an unlikely coincidence, be bad. I swapped them out with another old set that I had (not the same set that were installed when this problem first occurred).

I checked final output relay and found the contacts on one side were pitted. Each side exhibited some resistance. I cleaned the contacts and resolved that problem.

That's all that I can think of right now in the way of changing things.

I realize that the way I went about this makes it difficult to isolate exactly what the problem was, but I was getting a little frustrated with this rig and about ready to stick it on the shelf.

I fired it up and things seemed to check out reasonably well. I neutralized the tubes and gave things a final check.

This leads me to my only remaining issue with regard to the transmitter section...

When tuning the transmitter, I find that the plate current is up around 260mA after dipping it, if I have the load control set for maximum RF out (about 115 watts). If I reduce the load control so that the RF is about 100 watts, the plate current is about 240mA.

I think that is still a shade higher than what it should be. I was looking for something down near 225mA. My understanding of the tuning proceedure is that I should increase the load control to the point of maximum RF while periodically dipping the plate current during the process.

Is 260mA unacceptable? If so, is there any harm in reducing the load control to bring the plate current down some.

I should mention that I obtained all of these figures on 40 meters. I have not tried loading it on other bands yet.

Thanks to everyone who offered assistance to me on this project. I appreciate your time and effort. I may not have everything completely fixed, but at least the rig is usable now.

The issue with no TX and weak RX on the 28Mhz position still exists, and after looking at things while spending so much time with this rig, I think that is the result of a botched 11 meter mod. I may wrestle with that at a later time.

What are your thoughts on the level of plate current? In the mean time, I'll check it on other bands and see what I come up with.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Kevin:
> Just to humor me, please turn the rig off. Let it discharge. With your ohm meter measure the resistance from pin 1 on either final tube socket to ground. Pin 1 is where the 20 ohm resistors go. Do not remove the tubes or resistors when doing this. Please let me know what the resistance it.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin Hunter

> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 9:11 AM
> Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
>
>
> Gordon - No low voltage type problems when the xformer saver is not in
> line. I will begin checking the components on that rectifier board.
> I have not done that so far. Thanks for the guidance. I'll keep
> you posted.
>
> Kevin
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks for the info Kevin,
> > With the Transformer saver in line, I would expect you to experience
> > the effects of Low Voltage on Transmit because of the resistance in
> > the light bulb to the circuit. The rig is Not seeing full Voltage
> > under Load.
> > If you remove the Transformer saver, do you experience the same
> effects ?
> > I am studing the circuit and think we might want to start looking at
> > the Rf Unit. Have you checked all the Components on the Rectifier
> > board ?? They are all important to everything eles down the line .
> > Those parts seem to fail Often !
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - I am able to back the CARRIER control down enough to
get the
> > > plate current under control. I have to turn it way down though. I
> > > found that if there is any ALC deflection, the plate current
becomes
> > > excessive. I backed the ALC down enough to keep the plate current
> > > at 250mA. I also had to keep the LOAD cap fully meshed. The output
> > > was about 60 watts. At 350mA grid current, the output was 110
watts.
> > >
> > > R2 thru R5 are definitely 20 ohms. I had to replace them
because the
> > > other ones were destroyed. R6 checked 2.719k.
> > >
> > > The light bulb does not glow very bright during TX in the TUNE
> > > position, but the rig seems to be suffering effects of low
voltage.
> > > I notice the PLL appears to lose lock if I increase the carrier

> > > control very much.
> > >
> > > I checked the line fuse and found someone had a 4 amp fuse in
there.
> > > I was glad to see that. It has never blown, so I feel none of
> > > this incient has stressed the transformer very much.
> > >
> > > I'm not sure how much it would solve, but I would feel better if I
> > > could find whatever it was that I heard arc.
> > >
> > > Thanks for your help on this so far. I was off work today, but go
> > > back tomorrow, so I'll have to put this project on hold for a
couple
> > > of days.
> > >
> > > Kevin
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Hmmm,
> > > > Very Interesting. I checked the 830 I have here and here is
what I
> > > > read. The SG in receive is 235 in USB and the FG is -92 USB
in RX
> > > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and
> 85 in
> > > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > > Your Voltages appear higher across the Board.
> > > > Let me study the schematic some more and get back to you.
> > > > Perhaps some of the other Guys on here have some Ideas also.
I am
> > > > puzzled on this. If you back the Carrier control off, can
you get
> > > > the plate current to stop pegging or does the rig appear to
take off
> > > > on its own ?? I am starting to wonder If clif was on to
something in
> > > > the Meter circuit, although you stated that R6 and r10
checked OK.
> > > > Does your light bulb (in the Transformer saver) Glow Really
> bright in
> > > > Tune Position during transmit ?? R2, R3, R4, and R5 all
checked ok
> > > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
> am not
> > > > doubting you, just double checking.
> > > >
> > > > Gordon

> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > wrote:
> > > > >
> > > > > Gordon - I did build the transformer saver.
> > > > >
> > > > > Here are the voltages...
> > > > >
> > > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE
> > position
> > > > > on TX.
> > > > >
> > > > > FG= -64V in LSB or TUNE Position during TX
> > > > >
> > > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > > >
> > > > > As for actual output. I can't answer that. Since the plate
> > current
> > > > > goes off scale when I key it in CW mode, I've never left it
> > keyed more
> > > > > than about half a second.
> > > > >
> > > > > ALC appears to be within spec in the TUNE position.
> > > > >
> > > > > Kevin
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@> wrote:
> > > > > >
> > > > > > Hi Keith,
> > > > > > Ok, Those voltages look OK in receive. Just what I would
> > > expect to
> > > > > > see in a normal working 830.
> > > > > > Did you build the Transformer saver?
> > > > > > The reason I ask is that I want you to take some
measurements
> > > while in
> > > > > > Transmit mode Very quickly, But I don't want you to burn
> > > anything up.
> > > > > > I also forgot, Do you get ALC readings in tune? I think you
> > said Yes
> > > > > > before. Next question, what kind of Ouput do you get when
> > it's all
> > > > > > tuned up?

> > > > > >
> > > > > > Gordon
> > > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > > >
> > > > > > > > SG = 267V
> > > > > > > > FG = -104V
> > > > > > > > DRV = I was able to see a very low level AC voltage, about
> > > > 200mV. It
> > > > > > > > appeared to be unaffected by meshing the drive capacitor.
> > > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > wrote:
> > > > > > > > > >
> > > > > > > > > > Kevin, ,
> > > > > > > > > > lets start on any band in receive. I just want to
get some
> > > > base line
> > > > > > > > > > figures. I would suggest doing it with the heaters on.
> Adfter
> > > > you
> > > > > > > > > > get those, we can evaluate them and go from there.
> > > > > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
> there as I
> > > > am sure
> > > > > > > > > > you are aware, even when just receiving. Always keep one
> hand
> > > > behind
> > > > > > > > > > you.
> > > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > > > > >
> > > > > > > > > > Gordon - I did replace R7 and R8 at the same time as I
> > > > replaced the
> > > > > > > > > > others. I checked them out of circuit and they are
> > still 100
> > > > ohms.
> > > > > > > > > > No signs of heating or cracking.
> > > > > > > > > > >
> > > > > > > > > > I am familiar with the problem of the cracked shaft
> couplers
> > > > on the

> > > > > > > > > bandswitch. These don't show any signs of cracking. I
> > > assume
> > > > > > > > > > someone must have replaced them somewhere along
the way.
> > > > > > > > > >
> > > > > > > > > > I will check R6 and R10.
> > > > > > > > > >
> > > > > > > > > > You might give me some guidance on checking those
voltages
> > > > on the
> > > > > > > > > > final board. I don't have any problem making the
> > > > > measurement, but
> > > > > > > > > > tell me what condition the transmitter should be in
> when I'm
> > > > > taking
> > > > > > > > > > the reading. I'm refering to things like mode switch
> > > position,
> > > > > > TX or
> > > > > > > > > > RX, etc.
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> <n6wk@>
> > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma
> in tune
> > > > > position.
> > > > > > > > > > Ok next question, What do R7 and R8 ohm out at
under the
> > > > finals
> > > > > > > ? they
> > > > > > > > > > should be 100 ohm 1/2 watt. Did you replace those as
> > well as
> > > > > the 20
> > > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > > Also, as Clif mentioned, check the resistors R6
and R10
> > > in the
> > > > > final
> > > > > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > > > > Also, how is the bandswitch coupler inside the Final
> cage?
> > > > Is it
> > > > > > > > > > broken? Cracked ?
> > > > > > > > > > Can you take some voltage readings from the Final
> > > board for
> > > > > us? If
> > > > > > > > > > so, What is the voltage on the SG terminal, then on
> > the DRV

> > > > > > terminal
> > > > > > > > > > > also the FG terminal.
> > > > > > > > > > >
> > > > > > > > > > > Gordon
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > <kj558@>
> > > > > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Gordon - The idle bias is now up around 150 mA. I
> > had it
> > > > > > > > > adjusted to
> > > > > > > > > > > 60mA before I started having problems. I
> > re-adjusted it
> > > > > > down to
> > > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > > >
> > > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > > >
> > > > > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > > > >
> > > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection
within
> > > > the ALC
> > > > > > > > bracket
> > > > > > > > > > > with the carrier control at approximately 9
o'clock
> > > position.
> > > > > > > > > > >
> > > > > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > Kevin
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Gordon"
> > > <n6wk@>
> > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Kevin,
> > > > > > > > > > > What does your ip meter show for idle bias
in USB
> > > when you
> > > > > > > > key the
> > > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC
and the

> > > plate
> > > > > > > current
> > > > > > > > > > > > > read in Tune mode? What does your plate voltage
> > > show? You
> > > > > > > > might want
> > > > > > > > > > > > > to hook up a transformer saver while you
figure this
> > > out.
> > > > > > There is
> > > > > > > > > > > > directions on building one in the Files
section by
> > Walt
> > > > > N9WB.
> > > > > > > > > > > > What brand and number tubes did you install? The
> > > chinese
> > > > > > > > 6146's are
> > > > > > > > > > > known to Short/Flash so they are not a good
choice.
> > > > > > > > > > >
> > > > > > > > > > > Gordon
> > > > > > > > > > > ---
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > <kj558@>
> > > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Gordon - You are correct. I do mean plate
> current.
> > > > > > Thanks for
> > > > > > > > > > > clearing that up. I was thinking of my SB-1000
> > > > amp and
> > > > > > > > > > refering to
> > > > > > > > > > > grid current.
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Gordon"
> > > > > <n6wk@>
> > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > What do you mean " I keyed the radio and the
> Grid
> > > > > current went
> > > > > > > > > > off the
> > > > > > > > > > > scale" ? Are you referring to Plate
Current ?
> > > > > > > > > > > How are you measuring Grid current while
> > Keying the

> > > > > rig ?
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Just Curious and trying to get more info to
> > help you
> > > > > > out.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > > > > N6WK
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Kevin
> > > > > > Hunter"
> > > > > > > > > > <kj558@>
> > > > > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I've done some research on this forum
before
> > > > > making this
> > > > > > > > > > post and
> > > > > > > > > > > > > > > > > > didn't run across a similar situation. I
> hope
> > > > > > I've not
> > > > > > > > > > overlooked
> > > > > > > > > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I recently purchased this 830 so I don't
> > know the
> > > > > > > > history on
> > > > > > > > > > it...
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I used it on the air and everything seemed
> to be
> > > > > > working
> > > > > > > > > > fine and
> > > > > > > > > > > > > > > > > > within specifications. An internal
inspection
> > > > > > revealed
> > > > > > > > > > someone had
> > > > > > > > > > > > > > > > > > done the "super size" cathode resistor
> mod. I
> > > > > > ordered the
> > > > > > > > > > > > > > > > > > appropriate resistors and replaced them to
> avoid
> > > > > > future
> > > > > > > > > > problems.

> > > > > > > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I noticed the tubes were of different
> > manufacture,
> > > > > > so I
> > > > > > > > > > > > figured they
> > > > > > > > > > > > > > > > > were not a matched set. I went through the
> > > > > > procedure and
> > > > > > > > > > > > neutralized
> > > > > > > > > > > > > > > > > the tubes in the event it had not been
done.
> > > > > > > > Adjustment was
> > > > > > > > > > > > > required.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > After neutralization, I checked the
output and
> > > > > > dipped the
> > > > > > > > > > plate
> > > > > > > > > > > > > > > > > current. Everything appeared within
spec and
> > > > working
> > > > > > > > > normally.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I walked away from the bench and made
it about
> > > three
> > > > > > > steps
> > > > > > > > > > when I
> > > > > > > > > > > > > > > > > heard an arc. I was hoping it didn't come
> > > from the
> > > > > > > 830,
> > > > > > > > > > but knew
> > > > > > > > > > > > > > > > > that it probably did.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I went back and keyed the radio. The grid
> > > current
> > > > > > > went off
> > > > > > > > > > scale. I
> > > > > > > > > > > > > > > > > looked and found my newly installed
cathode
> > > > > > resistors were
> > > > > > > > > > blown.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I assumed a tube had shorted. I
checked the
> > > > > tubes with
> > > > > > > > > an ohm
> > > > > > > > > > > > meter
> > > > > > > > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > > > > > > > > >

> > > > > > > > > > > > > > > > I ordered a new set of tubes and new
> resistors.
> > > > They
> > > > > > > > arrived
> > > > > > > > > > > today
> > > > > > > > > > > > > > > > > and I installed them.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Operation appears the same. The grid
> > current is
> > > > > > > > still off
> > > > > > > > > > scale,
> > > > > > > > > > > > > > > > > regardless of band.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I am unable to find any visual evidence to
> > > indicate
> > > > > > > where
> > > > > > > > > > the arc
> > > > > > > > > > > > > > > > occurred.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > I've been ham for over 20 years, but this
> is my
> > > > > first
> > > > > > > hybrid
> > > > > > > > > > > > > rig. I'm
> > > > > > > > > > > > > > > > > > not experienced at troubleshooting
tube type
> > gear.
> > > > > > I'd
> > > > > > > > > > > welcome any
> > > > > > > > > > > > > > > > > > theories or suggestions anyone cares
to offer.
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Assuming I get this problem hashed out,
> > we'll move
> > > > > > on to
> > > > > > > > > > > another, less
> > > > > > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Prior to the problem with the
excessive grid
> > > current
> > > > > > > > occurring I
> > > > > > > > > > > > > > > > > > noticed there was no TX and weak RX
when the
> > band
> > > > > > switch
> > > > > > > > > > was in
> > > > > > > > > > > > > > > > > the 28
> > > > > > > > > > > > > > > > > > MHz position, regardless of the position
> of the

> > > > .5 MHz
> > > > > > > > > > button.
> > > > > > > > > > > > > Proper
> > > > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >

10565. Re: S -meter /25Khz tone question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 21:59:11 UTC
From: w5rkl
Topic: 10538 Message: 10565

My S meter does not always have the same reading. To calibrate the S meter on an 820, follow the procedures outlined in the service manual. This procedure is not in the operators manual. The S meter zero adjustment is on the 820's IF board and requires 3 adjustments on 3 different components. You can't use the onboard calibrator to properly adjust the S meter. You need a signal generator. The signal needs to be adjusted to a certain level and the onboard calibrator can not be adjusted low enough to do the adjustment properly. If you use the onboard calibrator your S meter readings will be incorrect.

On the average, my onboard calibrator provides a reading around S8.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Greg" <va3vfo@...> wrote:
>
> Can someone pls check and tell me if your s-meter deflects when the 25
> Khz alignment tone is on? Should I get a full scale deflection,
> assuming AGC is on either slow or fast?
>
> TX..I'm trying to troublshoot inoperative S-meter on receive.
>
> 73 Greg
>

10566. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 22:11:32 UTC
From: Ruben Echevarria
Topic: 10441 Message: 10566

I own one of each and the only difference is the meter lighting.
I paid $366.00 for the "silver" TS830S which came with the SP230 speaker an MC50 mic and a PC1 Phone Patch.
The guy was not a ham, didn't know what he had. So $325.00 is about right for a working rig in my opinion.
I feel I lucked out.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: N6WK <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 24, 2006 4:31:49 PM
Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Meir,
That is NOT true about the Gold having all the filters factory
installed. I have owned two of them, both from the original owners, one
did have all the filters installed. It was obvious that the other
never had !
The ONLY difference I have found on the gold and the Silver is, The gold
has the Gold Label and 1 meter lamp, while the silver had the silver
label and 2 meter lamps..
Where did you hear that information ?

73,
Gordon

wf2u@starband. net wrote:

> I've been lurking here since I bought a "great condition" - so said
> the ad -
> TS-830S Gold for $325, from the seller's friend's estate. I don't have it
> yet, it's on its way. I hope it's as described...
>
> This is going to be my first TS-830 (I have another hybrid, and old
> National NCX-1000) - I'm basically a "boatanchor" person... My most modern
> rig is a TS-480SAT which I'm using on MARS.
>
> What I managed to find out about the TS-830 Gold version is (besides the
> label" that it should have all the filter options factory installed.
>
> 73, Meir WF2U
> Landrum, SC

>
> > A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> > filters, but very clean, SN 7xxxxxx with the manual. Worked 100%, full
> > output, one bulb burned out and a swapped in 3 prong power cord.
> >
> > The one I have now cost me $375 with 2 CW filters, full output,
> > everything working FB, SN 4xxxxxx.
> >
> > I'm thinking $300 for one with weak output is just a tad high unless the
> > rest of it is in exceptional shape.
> >
> > - Keith KD1E -
> >
> > -----Original Message-----
> > From: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > [mailto:TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>] On Behalf Of David Rust
> > Sent: Tuesday, October 24, 2006 2:30 PM
> > To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> > Subject: Re: [TS-520_820_ 530_830] Re: TS-830S GOLD for sale
> >
> > Ellen, I bought an 830s in VERY nice condition with low output from a
> > reputable dealer for $250. They also told me what was wrong with it,
> > however, wasn't that at all. Needed new filter capacitors. I installed
> > that and away it went, now I have an S/AGC problem, shouldn't be too
> > hard to remedy, in fact I may be responsible for that. I adjusted it a
> > few days ago with the calibrator on and may have not set it correctly.
> > Dave W0DLR
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> > Yahoo! Groups Links
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10567. Re: [TS-520_820_530_830] Re: Praise for my 830 (QRP modification)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 23:37:59 UTC
From: John Harp
Topic: 10496 Message: 10567

Ok I saw it passing thru a web site looking for transverter info. I hadn't seen it before and I've wanted a way to reduce power to drive my linear for side band. I thought I'd see if there was interest in the group. If so I'd go hunt it down again.I hadn't seen it passing thru before. So I mentioned it. Thenks for telling me.

james27613 <james27613@...> wrote: hi john,

we have this info here in the MODS folder in files section,

Use ALC input to 'force' QRP operation.jpg

I'm not the author but I did pass this on to the list.

73 james

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10568. Re: [TS-520_820_530_830] TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 23:46:08 UTC
From: John Harp
Topic: 10441 Message: 10568

Outta my reach right now. I'm occupied enough with the transverter and 830 projects, but thanks.

Ken Gunton <ken@...> wrote:
Just saw this on eham this morning:

10/24/06
AB8JN
HF Radios

Kenwood TS 830S

Kenwood TS 830S Gold. Appearance is a 7+. Has the
WARC bandas. This unit has low output. I dont
have the time to work on it. It has one TRIO
ssb filter installed. No manual or mic-just
the radio. The radio has been sitting idle for
the last five years. It was a backup rig only.

$295.00. You pay shipping. 586-549-3604

Just passing it along FWIW.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10569. Re: [TS-520_820_530_830] Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 23:42:43 UTC
From: John Harp
Topic: 10557 Message: 10569

Well I found it on a web page passing thru looking for information for my transverter. I mentioned it and James told me it's in the archives already. The web page mentioned it was on a TS-830. So it mey work on our 830's. I need one to reduce the drive to my linear. Maybe it's best to ask Gordon or Walt, or ask around. We all like these topics.

"Gerald R.Gaule" <ke7ggv@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "va3slj" <scottj@...> wrote:
>
> I would like to lower the output on an 830s for qrp, and found the
> schematic in the files section, but it says it's for the 520. Will
the
> same method work on an 830s or cause damage, or is there a better way
> to lower output on SSB for the 830s. I am using the rig for CW qrp
> now, but would like to explore SSB.
>
> thanks and 73,
> Scott, VA3SLJ
>
I would like to know the same for...TS 820S...Please..THX DE
KE7GGV...and are there any QRP KENWOOD GROUPS????

73 to all....

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail.

[Non-text portions of this message have been removed]

10570. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-24 23:54:49 UTC
From: Peter A Markavage
Topic: 10441 Message: 10570

As Gordon says, one verses two meter lamps and the color of the 830
marking below the knob. That's it. The "all filter factory installed"
myth is as old as the 830 itself. I just got an 830 that has neither the
gold or silver TS-830 marking. It's been removed and in its place is a
Dymo label that says "Boss Man". I can see the big $$ now.

Pete, wa2cwa

On Tue, 24 Oct 2006 13:31:49 -0700 N6WK <n6wk@...> writes:
> Meir,
> That is NOT true about the Gold having all the filters factory
> installed. I have owned two of them, both from the original owners,
> one
> did have all the filters installed. It was obvious that the other
>
> never had !
> The ONLY difference I have found on the gold and the Silver is, The
> gold
> has the Gold Label and 1 meter lamp, while the silver had the silver
>
> label and 2 meter lamps..
> Where did you hear that information ?
>
> 73,
> Gordon
>
>
> wf2u@... wrote:
>
> > I've been lurking here since I bought a "great condition" - so
> said
> > the ad -
> > TS-830S Gold for $325, from the seller's friend's estate. I don't
> have it
> > yet, it's on its way. I hope it's as described...
> >
> > This is going to be my first TS-830 (I have another hybrid, and
> old
> > National NCX-1000) - I'm basically a "boatanchor" person... My
> most modern
> > rig is a TS-480SAT which I'm using on MARS.
> >
> > What I managed to find out about the TS-830 Gold version is
> (besides the
> > label" that it should have all the filter options factory

> installed.
> >
> > 73, Meir WF2U
> > Landrum, SC

10571. 820 sensitivity problem fixed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 00:14:59 UTC
From: w5rkl
Topic: 10571 Message: 10571

The 820's low receiver sensitivity turned out to be an incorrectly adjusted S meter. Peforming the S meter calibration, as outlined in the service manual, made a huge difference. This evening while tuning around on 40 meters I ran across a station in NY with a 45 over 9 signal. I quickly brought my FT-857D on line and compared. He was only slightly higher in S meter reading on the 857D, about 1 S unit difference. Not bad for a 30+ year old radio.

I want to thank everyone for their suggestions during the troubleshooting of my 820. Each and everyone was great apprecaited. That's what this group's all about, providing help and sharing information. Thanks again everyone.

73's,

Mike
W5RKL

10572. Re: [TS-520_820_530_830] Re: Just to say G'day

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 00:08:50 UTC
From: John Harp
Topic: 10499 Message: 10572

Yes the 985 machine is still there. It is only a few doors down the road from me. Joe Fell still has the repeater and also has a 220 on the same site and 442. The former owner of the property Bill Findley W3FEA passed away a whole back and his widow wants to sell the place. The machine is visited mostly by the frogs, friday nighters, and is takes part in CCARS (Chester County Amateur Radio Services). It's a combination group of ARES and RACES. I can reach your old 147.195 machine from here too. IN fact I can simplex to Harrisburg and Lancaster from here. Elevation 940 feet with nthing else around for miles as high as this. That's why I want to see what VHF is like, more so than just FM.
I used CO Contact Spray recently on my 830 and found it made a haze in my relay cover. I had my linear upside down on the bench with the top still on and it softened the paint. I used it years ago and didn't have this problem. Now I know why. Thanks.

Bill <zl3nb@...> wrote:
Tnx for the welcome John. I lived many years up in Pottstown, home
of the 147.21 machine prior to moving here in 86...Used to go
through the WA3GMS Repeater on 147.195 (not sure if its still there
or not)...

Yes looks like a good site as have been going back through some of
the threads and the files.

Ill put together a list of littel quirks and fixes I have done on my
TS530S over the years in due course Although one interesting item
that comes up in the threads is Deoxit for the bandswitch. I used
to use the standard CRC "CO" contact cleaner till they changed the
chemicals in it and made it harmful to many plastics...Important to
read "Warnings" on those cans as I knew one guy who used and it
crack the waffer switch in the receiver of the switch! But ordinary
contact cleaner is dry and in the end really does not solve or do
the job right.

I found using CRC 5-56 a marine grade type good for both mechnical
and electical use...That worked really great since not only did it
cleaned the contacts but left a lubicating residue on them but the
main culprit in the end was the solder joints where the switches go
the driver board and that shaft coupler (inside the final
compartment)...

My experience from those products is that I worked in the Elevator
trade as a Electrican/Electronic Tech for many moons.

73 de Bill ZL3NB

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Greetings to you Bill and welcome to the Kenood group. I'm John-

KA3DPW in Parkesburg, Pennsylvania, United States.
>
> I have two TS-830's and digital remote VFO230 with the matchin
SP-230 speaker, an MC-50 microphone. Ijust bought a TV-502 to get a
feel of VHF. Hopefully I find some resource for cables.I mostly at
the persent operate 40 meters when I can.
>
> Wander the archives for the needed information. We have a good
set of resources here to meet the needs of the Kenwood tube Hybrids.
Also we have people here in the group who come with different
approaches to the subjects. So feel free to put an issue out that
you need help with. There are others around with 530's here.
>
> Some with repair shops, some you'lll find are considered
guru's and in between various people with knowledges and experiences
similar to what you will encounter yourself. You'll often find a
question is raised and a number responses return back.
>
> We also have sister groups. The Kenwood mics and Kenwood
QSO's. We have been trying to get a net going her recently.
>
> So join in the mix. Watch and you learn alot.
> Bill <zl3nb@...> wrote:
> Hello my name is Bill ZL3NB and new to the group. I have
been a
> amateur since 1966 originally as WA3GLX. See www.qrz.com/zl3nb for
> details.
>
> Have owned a Kenwood TS530S since new from 1983 along with the
> matching SP230 speaker and VFO240 VFO. It was my main station till
> just 2 years ago when a TS2000 was purchased but still use
the "Old
> Steamer" on a regular basis and on the digital modes where it
works
> like a charm.
>
> The only real problem has been the Band switch but about 5 years
ago
> I fixed it once and for all by removing the Driver Board and
> resoldering all of the joints from the switch on the board...It's
> been like new ever since. It's a easy radio to work with and have
> found under yearly maintenance and alignment they will run
perfectly
> and even out due do some of the newer ones too. These radios have
to
> be considered the "Best of the best" ever made and with the 500
and
> 270hz CW Filters installed...they're great on cw which is my
> preferred mode of operation.
>

> 73 de Bill ZL3NB
>
>
>
>
>
>
> ---
> Get your email and more, right on the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10573. Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 00:08:50 UTC
From: james27613
Topic: 10557 Message: 10573

hi scott,

The qrp mod in the files section will work with
the 520 or 820.

For the 530/830 you need to use the smaller DIN plug,
double check your manual before you wire it up.

I have made one for my 520 and 530, 9v alkaline
will last a long time, or use the lithium for years of QRP !

some use the mic gain to lower the ouput but this can
cause poor signal so for long term use not good idea.

(I posted the mod, but I am not the author)

73 james ke4drn

10574. Re: [TS-520_820_530_830] Re: Praise for my 830!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 00:23:39 UTC
From: John Harp
Topic: 10496 Message: 10574

I like to use mine to hold 4 or 5 frequencies I scan. I float alot. Find a quiet spot and Start CQ and before long somebody shows up. I can keep monitoring the other spots in the meantime. My End fed was a quarterwave on 160 at the same height with several 40 quarterwaves in the ground under it in different directions. This year I'll run the vertical on 80 this winter. Maybe fold it down and add some wire and make it longer to a tree for 160. I can tune 160 3:1SWR with my Versa Tuner but it's not the best.
I had RF in the shack with my end fed. Now I'm thinking of lengthening it tothe end of the property and bringing it down lower for a Beverage. It's not far off for Europe. I figure 200 feet's better than nothing.
17 is really good with the vertical. It's 5/8 wave there.

max_ve3tmt <max_ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Congrats Max. Is the VFO working for you? your using what I used
till I built the vertical.

Hi John,

Yes the VFO is working just fine, in fact I use it for tuning the rig
instead of the 830's VFO! I use an R7 on 40-10m on the longwire on
75/80m. Not the best setup but it does get me on the band. I don't
venture down on 75m until winter time.

Max

All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10575. Re: [TS-520_820_530_830] 820 sensitivity problem fixed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 00:59:07 UTC
From: John Harp
Topic: 10571 Message: 10575

Doesn't suprise me tho. If you keep the contacts clean and in good shape, these radios perform like that. That's why I bought a second 830 after 25 years of the first.

w5rkl <w5rkl@...> wrote:
The 820's low receiver sensitivity turned out to be an incorrectly
adjusted S meter. Peforming the S meter calibration, as outlined in
the service manual, made a huge difference. This evening while tuning
around on 40 meters I ran across a station in NY with a 45 over 9
signal. I quickly brought my FT-857D on line and compared. He was only
slightly higher in S meter reading on the 857D, about 1 S unit
difference. Not bad for a 30+ year old radio.

I want to thank everyone for their suggestions during the
troubleshooting of my 820. Each and everyone was great apprecaited.
That's what this group's all about, providing help and sharing
information. Thanks again everyone.

73's,

Mike
W5RKL

Get your email and more, right on the new Yahoo.com

[Non-text portions of this message have been removed]

10577. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 01:49:22 UTC
From: WF2U
Topic: 10441 Message: 10577

Gordon,

When I corresponded with the seller and he told me it was a GOLD model, I had no idea what the difference was, then I Googled TS-830 GOLD and it came up with a source which said that it had all the filter options.
Maybe it was incorrect, and I appreciate the correct information. As it is, the seller said it had both 500 Hz filters in.

73, Meir WF2U / NNN0AAF
Landrum, SC

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of N6WK
Sent: Tuesday, October 24, 2006 4:32 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Meir,
That is NOT true about the Gold having all the filters factory installed. I have owned two of them, both from the original owners, one did have all the filters installed. It was obvious that the other never had !
The ONLY difference I have found on the gold and the Silver is, The gold has the Gold Label and 1 meter lamp, while the silver had the silver label and 2 meter lamps..
Where did you hear that information ?

73,
Gordon

wf2u@... wrote:

> I've been lurking here since I bought a "great condition" - so said
> the ad -
> TS-830S Gold for $325, from the seller's friend's estate. I don't have it
> yet, it's on its way. I hope it's as described...
>
> This is going to be my first TS-830 (I have another hybrid, and old
> National NCX-1000) - I'm basically a "boatanchor" person... My most modern
> rig is a TS-480SAT which I'm using on MARS.
>
> What I managed to find out about the TS-830 Gold version is (besides the
> label" that it should have all the filter options factory installed.
>
> 73, Meir WF2U
> Landrum, SC

>
> > A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> > filters, but very clean, SN 7xxxxxx with the manual. Worked 100%, full
> > output, one bulb burned out and a swapped in 3 prong power cord.
> >
> > The one I have now cost me $375 with 2 CW filters, full output,
> > everything working FB, SN 4xxxxxx.
> >
> > I'm thinking $300 for one with weak output is just a tad high unless the
> > rest of it is in exceptional shape.
> >
> > - Keith KD1E -

10578. Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 02:41:11 UTC
From: max_ve3tmt
Topic: 10441 Message: 10578

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> As Gordon says, one verses two meter lamps and the color of the 830
> marking below the knob. That's it.

Two meter lamps would be my preference. A very easy thing to remedy.
Hardest thing to get would be the bulb holders.

Max

10579. Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 03:08:32 UTC
From: Gordon
Topic: 10441 Message: 10579

Meir,
No problem. I just didn't want you to be mislead.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "WF2U" <wf2u@...> wrote:
>
> Gordon,
>
> When I corresponded with the seller and he told me it was a GOLD
model, I
> had no idea what the difference was, then I Googled TS-830 GOLD and
it came
> up with a source which said that it had all the filter options.
> Maybe it was incorrect, and I appreciate the correct information. As
it is,
> the seller said it had both 500 Hz filters in.
>
> 73, Meir WF2U / NNN0AAF
> Landrum, SC
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of N6WK
> Sent: Tuesday, October 24, 2006 4:32 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale
>
>
> Meir,
> That is NOT true about the Gold having all the filters factory
> installed. I have owned two of them, both from the original owners, one
> did have all the filters installed. It was obvious that the other
> never had !
> The ONLY difference I have found on the gold and the Silver is, The gold
> has the Gold Label and 1 meter lamp, while the silver had the silver
> label and 2 meter lamps..
> Where did you hear that information ?
>
> 73,
> Gordon
>
> wf2u@... wrote:

>
> > I've been lurking here since I bought a "great condition" - so said
> > the ad -
> > TS-830S Gold for $325, from the seller's friend's estate. I don't
have it
> > yet, it's on its way. I hope it's as described...
> >
> > This is going to be my first TS-830 (I have another hybrid, and old
> > National NCX-1000) - I'm basically a "boatanchor" person... My
most modern
> > rig is a TS-480SAT which I'm using on MARS.
> >
> > What I managed to find out about the TS-830 Gold version is
(besides the
> > label" that it should have all the filter options factory installed.
> >
> > 73, Meir WF2U
> > Landrum, SC
> >
> > > A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> > > filters, but very clean, SN 7xxxxxx with the manual. Worked
100%, full
> > > output, one bulb burned out and a swapped in 3 prong power cord.
> > >
> > > The one I have now cost me $375 with 2 CW filters, full output,
> > > everything working FB, SN 4xxxxxx.
> > >
> > > I'm thinking $300 for one with weak output is just a tad high
unless the
> > > rest of it is in exceptional shape.
> > >
> > > - Keith KD1E -
>

10580. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 03:11:07 UTC
From: N6WK
Topic: 10441 Message: 10580

OOPs I ment MisLed !!!
:-)

Gordon

Gordon wrote:

> Meir,
> No problem. I just didn't want you to be mislead.
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "WF2U" <wf2u@...> wrote:
> >
> > Gordon,
> >
> > When I corresponded with the seller and he told me it was a GOLD
> model, I
> > had no idea what the difference was, then I Googled TS-830 GOLD and
> it came
> > up with a source which said that it had all the filter options.
> > Maybe it was incorrect, and I appreciate the correct information. As
> it is,
> > the seller said it had both 500 Hz filters in.
> >
> > 73, Meir WF2U / NNN0AAF
> > Landrum, SC
> >
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > [mailto:TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>]On Behalf Of N6WK
> > Sent: Tuesday, October 24, 2006 4:32 PM
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale
> >
> >
> > Meir,
> > That is NOT true about the Gold having all the filters factory
> > installed. I have owned two of them, both from the original owners, one
> > did have all the filters installed. It was obvious that the other

> > never had !
> > The ONLY difference I have found on the gold and the Silver is, The gold
> > has the Gold Label and 1 meter lamp, while the silver had the silver
> > label and 2 meter lamps..
> > Where did you hear that information ?
> >
> > 73,
> > Gordon
> >
> > wf2u@... wrote:
> >
> > > I've been lurking here since I bought a "great condition" - so said
> > > the ad -
> > > TS-830S Gold for $325, from the seller's friend's estate. I don't
> have it
> > > yet, it's on its way. I hope it's as described...
> > >
> > > This is going to be my first TS-830 (I have another hybrid, and old
> > > National NCX-1000) - I'm basically a "boatanchor" person... My
> most modern
> > > rig is a TS-480SAT which I'm using on MARS.
> > >
> > > What I managed to find out about the TS-830 Gold version is
> (besides the
> > > label" that it should have all the filter options factory installed.
> > >
> > > 73, Meir WF2U
> > > Landrum, SC
> > >
> > > > A year ago I bought a nice 830s for a smidge under $300 IIRC. No CW
> > > > filters, but very clean, SN 7xxxxxx with the manual. Worked
> 100%, full
> > > > output, one bulb burned out and a swapped in 3 prong power cord.
> > > >
> > > > The one I have now cost me $375 with 2 CW filters, full output,
> > > > everything working FB, SN 4xxxxxx.
> > > >
> > > > I'm thinking $300 for one with weak output is just a tad high
> unless the
> > > > rest of it is in exceptional shape.
> > > >
> > > > - Keith KD1E -
> > >
> >
>

[Non-text portions of this message have been removed]

10582. Zorched Circuit Boards

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 04:07:03 UTC
From: Max Harelik
Topic: 10582 Message: 10582

From time to time, I see issues/problems discussed that focus on deteriorated/damaged/burned circuit boards. For example, two that affect Kenwood hybrid radio owners often are the RF Power Amplifier board and the Power Supply board. Generally, the solution is refurbishing existing runs and solder connections, but sometimes requiring patching in wires to replace runs that are beyond recovery.

My question is this: Does there exist anywhere a library of radio circuit board masks, such that a graphic of the board mask could be downloaded and used (perhaps through some of the circuit board fabricators discussed in earlier messages) to create a new replacement board?

There are obviously copywrite and patent issues that potentially apply. But, in the case of thirty-year-old radios such as the hybrids, this is not likely to be a problem. And, there are examples of board replacement (usually in the form of modification kits) in today's radio market. The one that comes immediately to mind is Harbach's Heathkit SB-200 Power Supply board (and components), which I built and installed in my own amplifier.

I see potential for such a library, particularly for those of us that like to work with older radio equipment of whatever brand/manufacture. So, does anyone know of such a service/library? Anybody interested?

73,
Max, K5OVW

10583. ts830s and ts820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 09:06:26 UTC
From: ne0x@megapathdsl.net
Topic: 10583 Message: 10583

after much soul searching i find im not using either rig at all, i know its best to put these hybrids into service and i dont have the room, so im offering them to the group first, then if no takers off they go to qrz (im too cheep for ebay) , im looking for a k1 or a kx1 (have a k1) , been a qrp guy for long time, or a multiband uhf/vhf multimode base transciever, has 1 mic for both radios, manuals for both, also comes with vfo820, both are in perfect shape, ill say 9,8 cosmeticcally and work 100 percent, have diodes for mod but not installed. ther i feel a little better now biut think ill need therapy before its all over.

ron ne0x reply direct not thru group, thanks ....

10585. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 10:58:12 UTC
From: n9wb
Topic: 10441 Message: 10585

Rick:
Thank you very much for checking this out for us. Now we know how to deal with these coils. You have been a great help!
Vy 73, Walt N9WB

----- Original Message -----
From: Rick KC0HH
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 24, 2006 11:56 AM
Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Hi Walt,

When I peaked L19, the signal came up a bit. The service manual say to adjust L20 counterclockwise so I turned L20 1/4 turn clockwise and then back counterclockwise until the signal peaked and the level came up even more. I went back a forth a couple times peakinig the signal. When I turned off the calibrate signal, I checked the RF VTVM and it checked .293V on both LSB/USB...If I convert correctly, that is 820mV p-p....That is within the 1dB specified by the service manual. I can't detect any distortion on my spectrum analyzer software doing it this way and the recovered audio sounds fine. I am going to check my other 830S when I have time.... I wish someone with better test equipment could compare these settings.

I don't know if there is something I am missing doing it this way but it seems too easy. The 600mV level is very tedious to set. This way takes less than 30 seconds.

Rick KC0HH

n9wb <n9wb@...> wrote: Rick:
Did it still have to be tweaked for balance between USB and LSB after maxing them out ? Walt.

10586. Re: [TS-520_820_530_830] Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 11:05:28 UTC
From: n9wb
Topic: 10557 Message: 10586

If you are talking about the mod that puts voltage into the ALC port, I think it will work for the 520,820,530, and 830.

There is also a method for reducing the output to around 30 to 40 W PEP for driving a low drive amp such as a Collins Thirty S. One. It involves placing a 12 K resistor in series with the wire that feeds the SG point on the final board to lower the screen voltage. It will not bring the power as low as the mod using the ALC voltage however.

Vy 73, Walt N9WB

----- Original Message -----
From: Gerald R.Gaule
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 24, 2006 3:22 PM
Subject: [TS-520_820_530_830] Re: qrp question

--- In TS-520_820_530_830@yahoogroups.com, "va3slj" <scottj@...> wrote:
>
> I would like to lower the output on an 830s for qrp, and found the
> schematic in the files section, but it says it's for the 520. Will
the
> same method work on an 830s or cause damage, or is there a better way
> to lower output on SSB for the 830s. I am using the rig for CW qrp
> now, but would like to explore SSB.
>
> thanks and 73,
> Scott, VA3SLJ
>
I would like to know the same for...TS 820S...Please..THX DE
KE7GGV...and are there any QRP KENWOOD GROUPS????

73 to all....

10587. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 11:58:36 UTC
From: Darwin, Keith
Topic: 10441 Message: 10587

As I understand, the later SN rigs had improved IF filters making them more desirable than the earlier SN rigs. If the change over happened around 3 mil, then all the silver label and some of the gold label rigs are using the less desirable filters, right?

And as I understood it, it wasn't a Gold Edition, but simply a Gold Label model. I don't think Kenwood ever marketed them as anything other than 830s transceivers. The used market & e-bay have amplified this gold label issue way out of proportion.

Maybe I should sell my gold label model, buy an older silver label model and put the spare cash into other gear?

- Keith KD1E -

-----Original Message-----
From: max_ve3tmt

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> As Gordon says, one verses two meter lamps and the color of the 830
> marking below the knob. That's it.

Two meter lamps would be my preference. A very easy thing to remedy. Hardest thing to get would be the bulb holders.

Max

10588. Any 830s mods to make the sidetone sound better?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 13:07:05 UTC
From: Darwin, Keith
Topic: 10588 Message: 10588

Are there any mods out there to upgrade the 830s sidetone? In stock form it sounds a bit harsh (not a pure sine wave) and lies about the length of dits by cutting them short.

- Keith KD1E -

[Non-text portions of this message have been removed]

10589. Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 13:22:32 UTC
From: Ellen R
Topic: 10557 Message: 10589

James is right. This is a standard mod for QRP phone work with tube rigs. Lowering mic gain often results in lousy sounding audio. For QRP CW work, it's even easier, just turn down the carrier level control to the desired output level, after tuneup. I've done QRP for over 20 years, and some of my earliest QRP operating, was done at 2W out, on 15m CW, with the TS-830S at the Univ. of WI club stattion (W9YT), back in the mid 80s. Have fun.

73,
Ellen - AF9J

P.S. - as far as I know, there aren't any dedicated Kenwood QRP groups, in spite of the fact that the TS-130V (the QRP version of the TS-130), has become a classic, and much sought after QRP rig.

--- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi scott,
>
> The qrp mod in the files section will work with
> the 520 or 820.
>
> For the 530/830 you need to use the smaller DIN plug,
> double check your manual before you wire it up.
>
> I have made one for my 520 and 530, 9v alkaline
> will last a long time, or use the lithium for years of QRP !
>
> some use the mic gain to lower the ouput but this can
> cause poor signal so for long term use not good idea.
>
> (I posted the mod, but I am not the author)
>
> 73 james ke4drn
>

10590. (no subject)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 11:49:24 UTC
From: David Rust
Topic: 10590 Message: 10590

I think that you will find that he purchased the rig with this mod and was trying to de modify it.

I understand that. My post was referring to what the previous guy had done to modify the rig. I bought one years ago off Ebay that had been CB'd. I still say its sad that someone does that to a perfectly good radio.
Dave W0DLR

[Non-text portions of this message have been removed]

10591. Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 15:36:38 UTC
From: va3slj
Topic: 10557 Message: 10591

So what I'm building is a box for the battery, pot, and cable
connections. I see the Kenwood cables on Ebay all the time, and as
long as I get the right pins in use I should be ok. I might be
asking some more questions soon, but for now that's the info I need.

Thanks for all the help.

73,
VA3SLJ

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi scott,
>
> The qrp mod in the files section will work with
> the 520 or 820.
>
> For the 530/830 you need to use the smaller DIN plug,
> double check your manual before you wire it up.
>
> I have made one for my 520 and 530, 9v alkaline
> will last a long time, or use the lithium for years of QRP !
>
> some use the mic gain to lower the ouput but this can
> cause poor signal so for long term use not good idea.
>
> (I posted the mod, but I am not the author)
>
> 73 james ke4drn
>

10592. Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 17:01:58 UTC
From: Peter A Markavage
Topic: 10441 Message: 10592

830M's were also marketed outside the U.S. There's also nothing in the 830S "gold" and "silver" brochures that indicates there were any "improved" filters being marketed by Kenwood. The "improved" filters most were talking about were the after market filters marketed by International Radio(the original one in FL).

Pete, wa2cwa

On Wed, 25 Oct 2006 07:58:36 -0400 "Darwin, Keith" <keith.darwin@...> writes:
> As I understand, the later SN rigs had improved IF filters making them
> more desirable than the earlier SN rigs. If the change over happened
> around 3 mil, then all the silver label and some of the gold label rigs
> are using the less desirable filters, right?
>
> And as I understood it, it wasn't a Gold Edition, but simply a Gold
> Label model. I don't think Kenwood ever marketed them as anything other
> than 830s transceivers. The used market & e-bay have amplified this
> gold label issue way out of proportion.
>
> Maybe I should sell my gold label model, buy an older silver label model
> and put the spare cash into other gear?
>
> - Keith KD1E -
>
> -----Original Message-----
> From: max_ve3tmt
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@...> wrote:
> >
> > As Gordon says, one verses two meter lamps and the color of the 830
> > marking below the knob. That's it.
>
> Two meter lamps would be my preference. A very easy thing to remedy.
> Hardest thing to get would be the bulb holders.
>

> Max

10593. Re: TS-830S GOLD for sale- Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 17:25:00 UTC
From: Rick
Topic: 10441 Message: 10593

Hello,

I don't know if they are 'improved' filters but Kenwood changed the
stock 8.83 filter from YK-88S(2.4khz)to the YK-88S1(2.7 khz)early on
in the 830S' and then changed the 455khz Murata ceramic CFJ455K5 to
the CFJ455K12 around the 3 mil serial number.

They also seem to have more variations of S meter lamps as I have
two Silver and one Gold all with a single lamp.

Rick KC0HH

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> 830M's were also marketed outside the U.S. There's also nothing in the
> 830S "gold" and "silver" brochures that indicates there were any
> "improved" filters being marketed by Kenwood. The "improved" filters
most
> were talking about were the after market filters marketed by
> International Radio(the original one in FL).
>
> Pete, wa2cwa
>
>

10594. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 17:20:15 UTC
From: Darwin, Keith
Topic: 10441 Message: 10594

The improved filters I'm talking about are those that have been discussed on this list. That after about SN 3xxxxxx, Kenwood did a production change on the filters to something a little better (-12 version vs. -5??). It would have been considered just a part substitution by Kenwood and would not have been advertised.

Unless I've read the posts to this list wrong (entirely possible)

73!

- Keith -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Peter A Markavage
Sent: Wednesday, October 25, 2006 1:02 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: TS-830S GOLD for sale

830M's were also marketed outside the U.S. There's also nothing in the 830S "gold" and "silver" brochures that indicates there were any "improved" filters being marketed by Kenwood. The "improved" filters most were talking about were the after market filters marketed by International Radio(the original one in FL).

Pete, wa2cwa

On Wed, 25 Oct 2006 07:58:36 -0400 "Darwin, Keith"
<keith.darwin@...> writes:
> As I understand, the later SN rigs had improved IF filters making them

> more desirable than the earlier SN rigs. If the change over happened
> around 3 mil, then all the silver label and some of the gold label
> rigs are using the less desirable filters, right?
>
> And as I understood it, it wasn't a Gold Edition, but simply a Gold
> Label model. I don't think Kenwood ever marketed them as anything
> other than 830s transceivers. The used market & e-bay have amplified
> this gold label issue way out of proportion.
>
> Maybe I should sell my gold label model, buy an older silver label
> model and put the spare cash into other gear?
>
> - Keith KD1E -
>
> -----Original Message-----

> From: max_ve3tmt
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> <pmarkavage@...> wrote:
> >
> > As Gordon says, one verses two meter lamps and the color of the
> 830
> > marking below the knob. That's it.
>
> Two meter lamps would be my preference. A very easy thing to remedy.
> Hardest thing to get would be the bulb holders.
>
> Max

Yahoo! Groups Links

10595. Re: TS-830S GOLD for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 17:19:11 UTC
From: max_ve3tmt
Topic: 10441 Message: 10595

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> 830M's were also marketed outside the U.S. There's also nothing in the
> 830S "gold" and "silver" brochures that indicates there were any
> "improved" filters being marketed by Kenwood. The "improved" filters
most
> were talking about were the after market filters marketed by
> International Radio(the original one in FL).
>
> Pete, wa2cwa

Apparantly somewhere around the 3 mil serial number, Kenwood replaced the stock 455 IF filter. Filters were marked either CF455K5 or CF455K12. Mine is a 2 mil unit with the K5 filter in it. According to the service manual this filter has a 2.7 Khz B/W while the K12 is 3.2 wide. I would suspect this as being true, as my rx B/W is just under 3K and I have a 3K 8.83 IF filter in mine. Mine also has the 500 hz CW filter in the 8.83 IF. And it only has one meter lamp. I hope everyone is as confused as I am. I don't plan on selling it, so as long as the receiver comes to life when I flip the power switch I couldn't care less whether it is a gold, silver or polk-a-dot. I would love to have AM on it htough.

Max

10596. RE: [TS-520_820_530_830] Re: TS-830S GOLD for sale- Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 17:36:24 UTC
From: Darwin, Keith
Topic: 10441 Message: 10596

Yes, yes, yes, that was it. I'll yield to the experts regarding whether or not the filter changes were improvements.

- Keith -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Rick
Sent: Wednesday, October 25, 2006 1:25 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S GOLD for sale- Filters

Hello,

I don't know if they are 'improved' filters but Kenwood changed the stock 8.83 filter from YK-88S(2.4khz)to the YK-88S1(2.7 khz)early on in the 830S' and then changed the 455khz Murata ceramic CFJ455K5 to the CFJ455K12 around the 3 mil serial number.

They also seem to have more variations of S meter lamps as I have two Silver and one Gold all with a single lamp.

Rick KC0HH

10597. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 21:52:15 UTC
From: Chris HEmbree
Topic: 10441 Message: 10597

Are you guys making this adjustment with a signal gen on the antenna input or dead air.
Chris.
n9wb <n9wb@...> wrote: Rick:
Thank you very much for checking this out for us. Now we know how to deal
with these coils. You have been a great help!
Vy 73, Walt N9WB

----- Original Message -----
From: Rick KC0HH
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 24, 2006 11:56 AM
Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
Analyzer -Before/After

Hi Walt,

When I peaked L19, the signal came up a bit. The service manual say to
adjust L20 counterclockwise so I turned L20 1/4 turn clockwise and then back
counterclockwise until the signal peaked and the level came up even more. I
went back a forth a couple times peakinig the signal. When I turned off the
calibrate signal, I checked the RF VTVM and it checked .293V on both
LSB/USB...If I convert correctly, that is 820mV p-p....That is within the
1dB specified by the service manual. I can't detect any distortion on my
spectrum analyzer software doing it this way and the recovered audio sounds
fine. I am going to check my other 830S when I have time.... I wish someone
with better test equipment could compare these settings.

I don't know if there is something I am missing doing it this way but it
seems too easy. The 600mV level is very tedious to set. This way takes less
than 30 seconds.

Rick KC0HH

n9wb <n9wb@...> wrote: Rick:
Did it still have to be tweaked for balance between USB and LSB after maxing
them out ? Walt.

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10598. VFO dial lights

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 21:56:00 UTC
From: w7cth
Topic: 10598 Message: 10598

Were do you buy the small dial lights? for the 830S..
Chris..

10599. Re: [TS-520_820_530_830] VFO dial lights

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 22:16:53 UTC
From: N6WK
Topic: 10598 Message: 10599

I bought mine from Ken K4EAA

Gordon

w7cth wrote:

> Were do you buy the small dial lights? for the 830S..
> Chris..
>
>

[Non-text portions of this message have been removed]

10600. Re: [TS-520_820_530_830] VFO dial lights

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 23:20:39 UTC
From: John Harp
Topic: 10598 Message: 10600

check with Ken, K4EAA. He may have some. East Coast parts or Pacific coast Parts.

w7cth <w7cth@...> wrote: Were do you buy the small dial lights? for the 830S..
Chris..

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

10601. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 23:27:35 UTC
From: N6WK
Topic: 10441 Message: 10601

Chris, adjust it using NO input to the antenna

Gordon

Chris HEmbree wrote:

> Are you guys making this adjustment with a signal gen on the antenna
> input or dead air.
> Chris.
> n9wb <n9wb@... <mailto:n9wb%40nltc.net>> wrote: Rick:
> Thank you very much for checking this out for us. Now we know how to deal
> with these coils. You have been a great help!
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Rick KC0HH
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, October 24, 2006 11:56 AM
> Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
> Analyzer -Before/After
>
> Hi Walt,
>
> When I peaked L19, the signal came up a bit. The service manual say to
> adjust L20 counterclockwise so I turned L20 1/4 turn clockwise and
> then back
> counterclockwise until the signal peaked and the level came up even
> more. I
> went back a forth a couple times peakinig the signal. When I turned
> off the
> calibrate signal, I checked the RF VTVM and it checked .293V on both
> LSB/USB...If I convert correctly, that is 820mV p-p....That is within the
> 1dB specified by the service manual. I can't detect any distortion on my
> spectrum analyzer software doing it this way and the recovered audio
> sounds
> fine. I am going to check my other 830S when I have time.... I wish
> someone
> with better test equipment could compare these settings.
>
> I don't know if there is something I am missing doing it this way but it
> seems too easy. The 600mV level is very tedious to set. This way takes
> less
> than 30 seconds.

>
> Rick KC0HH
>
> n9wb <n9wb@... <mailto:n9wb%40nltc.net>> wrote: Rick:
> Did it still have to be tweaked for balance between USB and LSB after
> maxing
> them out ? Walt.
>
>
>
>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10602. Re: [TS-520_820_530_830] Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 23:29:26 UTC
From: John Harp
Topic: 10557 Message: 10602

If it's an 830 you have the pinouts are in book for the ports. I do remember that. I went there to find my Amplifier cable assembly.

va3slj <scottj@ca.inter.net> wrote: So what I'm building is a box for the battery, pot, and cable
connections. I see the Kenwood cables on Ebay all the time, and as
long as I get the right pins in use I should be ok. I might be
asking some more questions soon, but for now that's the info I need.

Thanks for all the help.

73,
VA3SLJ

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi scott,
>
> The qrp mod in the files section will work with
> the 520 or 820.
>
> For the 530/830 you need to use the smaller DIN plug,
> double check your manual before you wire it up.
>
> I have made one for my 520 and 530, 9v alkaline
> will last a long time, or use the lithium for years of QRP !
>
> some use the mic gain to lower the ouput but this can
> cause poor signal so for long term use not good idea.
>
> (I posted the mod, but I am not the author)
>
> 73 james ke4drn
>

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1¢/min.

[Non-text portions of this message have been removed]

10603. Re: [TS-520_820_530_830] Zorched Circuit Boards

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-25 23:46:49 UTC
From: John Harp
Topic: 10582 Message: 10603

I don't know of one. To copy a board would take some time. You could try Kenwood Corporation, I just emailed there again not to long ago for my transverter. I wouldn't hold my breath waiting, but it's a shot in the dark. I'm working the transverter project right now. That's got my time at the moment. That and leaves.

Max Harelik <mharelik@...> wrote: From time to time, I see issues/problems discussed that focus on
deteriorated/damaged/burned circuit boards. For example, two that affect Kenwood hybrid radio owners often are the RF Power Amplifier board and the Power Supply board. Generally, the solution is refurbishing existing runs and solder connections, but sometimes requiring patching in wires to replace runs that are beyond recovery.

My question is this: Does there exist anywhere a library of radio circuit board masks, such that a graphic of the board mask could be downloaded and used (perhaps through some of the circuit board fabricators discussed in earlier messages) to create a new replacement board?

There are obviously copywrite and patent issues that potentially apply. But, in the case of thirty-year-old radios such as the hybrids, this is not likely to be a problem. And, there are examples of board replacement (usually in the form of modification kits) in today's radio market. The one that comes immediately to mind is Harbach's Heathkit SB-200 Power Supply board (and components), which I built and installed in my own amplifier.

I see potential for such a library, particularly for those of us that like to work with older radio equipment of whatever brand/manufacture. So, does anyone know of such a service/library? Anybody interested?

73,
Max, K5OVW

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10604. RE: [TS-520_820_530_830] listed 830 4-Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 00:58:05 UTC
From: Rich Jones
Topic: 10441 Message: 10604

This add is in todays QTH.Com by WY8D

RADIOHF - Kenwood TS830S
A Very nice Kenwood TS830S. Works very well, shows some wear for its age but is better than average. Comes with a manual. 325.00 plus shipping from 49548
Listing #560006 - Submitted on 10/25/06 by Callsign WY8D
Click Here to Email -- Click Here to View Picture

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

10605. Re: [TS-520_820_530_830] Zorched Circuit Boards

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 01:36:28 UTC
From: John Harp
Topic: 10582 Message: 10605

I found some circuit board diagrams with parts layout in some of the service Manuals and the operations manuals. The transverter books have them, and the 520 manual has them. If your looking for a place to get your negatives there's a good start. there are outfits out there that will make a board for you. you stuff the board obviously. find out who ARRL uses for thier projects.

John Harp <ka3dpw@...> wrote: I don't know of one. To copy a board would take some time. You could try Kenwood Corporation, I just emailed there again not to long ago for my transverter. I wouldn't hold my breath waiting, but it's a shot in the dark. I'm working the transverter project right now. That's got my time at the moment. That and leaves.

Max Harelik <mharelik@...> wrote: From time to time, I see issues/problems discussed that focus on
deteriorated/damaged/burned circuit boards. For example, two that affect
Kenwood hybrid radio owners often are the RF Power Amplifier board and
the Power Supply board. Generally, the solution is refurbishing existing
runs and solder connections, but sometimes requiring patching in wires
to replace runs that are beyond recovery.

My question is this: Does there exist anywhere a library of radio
circuit board masks, such that a graphic of the board mask could be
downloaded and used (perhaps through some of the circuit board
fabricators discussed in earlier messages) to create a new replacement
board?

There are obviously copywrite and patent issues that potentially apply.
But, in the case of thirty-year-old radios such as the hybrids, this is
not likely to be a problem. And, there are examples of board
replacement (usually in the form of modification kits) in today's radio
market. The one that comes immediately to mind is Harbach's Heathkit
SB-200 Power Supply board (and components), which I built and installed
in my own amplifier.

I see potential for such a library, particularly for those of us that
like to work with older radio equipment of whatever brand/manufacture.
So, does anyone know of such a service/library? Anybody interested?

73,
Max, K5OVW

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2¢/min or less.

[Non-text portions of this message have been removed]

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10606. Re: VFO dial lights

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 02:06:14 UTC
From: max_ve3tmt
Topic: 10598 Message: 10606

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> check with Ken, K4EAA. He may have some. East Coast parts or Pacific coast Parts.

Or your local Radio Shack. That's where I got mine.

Max VE3TMT

10607. 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 02:27:20 UTC
From: jsloss
Topic: 10607 Message: 10607

BAMA is busy. Can someone check your 830S service manual and let me know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The one that is in there now is about halfway in size between the two.

Thanks,
Joe k7mks

[Non-text portions of this message have been removed]

10608. Re: [TS-520_820_530_830] 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 02:44:02 UTC
From: Bill Scurlock
Topic: 10607 Message: 10608

Hi Joe.

R-11 on the Rectifier Board in both the TS-830S and the TS-530S is 470 ohm, 1 watt, metal film resistor. Good Luck.

73, Bill, K5GCW
----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 25, 2006 9:27 PM
Subject: [TS-520_820_530_830] 830S Rectifier Unit R-11

BAMA is busy. Can someone check your 830S service manual and let me know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The one that is in there now is about halfway in size between the two.

Thanks,
Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10609. Re: VFO dial lights

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 02:49:35 UTC
From: w7cth
Topic: 10598 Message: 10609

Good old radio shack,we never think of them first.
Looks like I only need one light bulb.
Thank you all for the info.
Chris..

--- In TS-520_820_530_830@yahoogroups.com, "max_ve3tmt"
<max_ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > check with Ken, K4EAA. He may have some. East Coast parts or Pacific
> coast Parts.
>
> Or your local Radio Shack. That's where I got mine.
>
> Max VE3TMT
>

10610. Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum Analyzer -Before/After

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 02:54:21 UTC
From: Chris HEmbree
Topic: 10441 Message: 10610

ok thank you. I have my radio set at 600mvp-p. Looks like some are going to be 600mv and some at 820mv
Good night.73's
Chris..

N6WK <n6wk@...> wrote: Chris, adjust it using NO input to the antenna

Gordon

Chris HEmbree wrote:

> Are you guys making this adjustment with a signal gen on the antenna
> input or dead air.
> Chris.
> n9wb <n9wb@... <mailto:n9wb%40nltc.net>> wrote: Rick:
> Thank you very much for checking this out for us. Now we know how to deal
> with these coils. You have been a great help!
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Rick KC0HH
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, October 24, 2006 11:56 AM
> Subject: Re: [TS-520_820_530_830] Shottky Diode Mod - Spectrum
> Analyzer -Before/After
>
> Hi Walt,
>
> When I peaked L19, the signal came up a bit. The service manual say to
> adjust L20 counterclockwise so I turned L20 1/4 turn clockwise and
> then back
> counterclockwise until the signal peaked and the level came up even
> more. I
> went back a forth a couple times peakinig the signal. When I turned
> off the
> calibrate signal, I checked the RF VTVM and it checked .293V on both
> LSB/USB...If I convert correctly, that is 820mV p-p....That is within the
> 1dB specified by the service manual. I can't detect any distortion on my
> spectrum analyzer software doing it this way and the recovered audio
> sounds
> fine. I am going to check my other 830S when I have time.... I wish
> someone
> with better test equipment could compare these settings.
>

> I don't know if there is something I am missing doing it this way but it
> seems too easy. The 600mV level is very tedious to set. This way takes
> less
> than 30 seconds.
>
> Rick KC0HH
>
> n9wb <n9wb@... <mailto:n9wb%40nltc.net>> wrote: Rick:
> Did it still have to be tweaked for balance between USB and LSB after
> maxing
> them out ? Walt.
>
>
>
>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10611. Re: [TS-520_820_530_830] 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 02:50:31 UTC
From: jsloss
Topic: 10607 Message: 10611

Thanks Bill. Now I can have SG voltage!

Joe
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 25, 2006 7:44 PM
Subject: Re: [TS-520_820_530_830] 830S Rectifier Unit R-11

Hi Joe.

R-11 on the Rectifier Board in both the TS-830S and the TS-530S is 470 ohm, 1 watt, metal film resistor. Good Luck.

73, Bill, K5GCW
----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 25, 2006 9:27 PM
Subject: [TS-520_820_530_830] 830S Rectifier Unit R-11

BAMA is busy. Can someone check your 830S service manual and let me know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The one that is in there now is about halfway in size between the two.

Thanks,
Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10612. Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 03:09:45 UTC
From: Gordon
Topic: 10607 Message: 10612

Hi Joe,
It is 470 ohm 1 Watt Metal Film. Did you find that it is bad
causing your loss of SG ? I know I have found many many instances
where a radio's problem was due to a faulty component on the Rectifier
Board. It is the FIRST place I go when checking out a rig.
By the way, when BAMA is busy, go to my site for manuals
www.n6wk.com/kenwood FREE downloads to all.
I just added a bunch of TS-510 Files and more
73,
Gordon

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> BAMA is busy. Can someone check your 830S service manual and let me
know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The
one that is in there now is about halfway in size between the two.
>
> Thanks,
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

10613. Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 03:43:06 UTC
From: digs4ruff
Topic: 10607 Message: 10613

Gordon
I checked your site and it looks like the 510 schematics I put up on this list. Wanted to let you know that the TS-510 schematic is 2 parts. You only picked up one.
regards
Barry
VA7GEM
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:

>go to my site for manuals
> www.n6wk.com/kenwood FREE downloads to all.
> I just added a bunch of TS-510 Files and more
> 73,
> Gordon

10614. Re: qrp question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 03:44:57 UTC
From: james27613
Topic: 10557 Message: 10614

Hi Ellen,

shame on me for not posting about using the
carrier control for CW QRP on tese fine radios !

73 james

"Ellen R" <ellenjoanne2003@...> wrote:
>
> James is right. This is a standard mod for QRP phone work with
tube
> rigs. Lowering mic gain often results in lousy sounding audio.
For
> QRP CW work, it's even easier, just turn down the carrier level
> control to the desired output level, after tuneup. I've done QRP
for
> over 20 years, and some of my earliest QRP operating, was done at
2W
> out, on 15m CW, with the TS-830S at the Univ. of WI club stattion
> (W9YT), back in the mid 80s. Have fun.
>
> 73,
> Ellen - AF9J

10615. Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 03:53:09 UTC
From: Gordon
Topic: 10607 Message: 10615

Hi Barry,
Look again. The TS-510_sch file has BOTH halves of the schematic in
one file. Unless I'm missing something somewhere.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Gordon
> I checked your site and it looks like the 510 schematics I put up on
> this list. Wanted to let you know that the TS-510 schematic is 2
> parts. You only picked up one.
> regards
> Barry
> VA7GEM
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
>
> >go to my site for manuals
> > www.n6wk.com/kenwood FREE downloads to all.
> > I just added a bunch of TS-510 Files and more
> > 73,
> > Gordon
>

10616. Re: [TS-520_820_530_830] Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 03:59:15 UTC
From: jsloss
Topic: 10607 Message: 10616

R-11 was open. Did not have a 1W metal film so sandwiched a 1W carbon in its place. All works as it should now.

Many thanks Gordon.

Joe k7mks
----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, October 25, 2006 8:09 PM
Subject: [TS-520_820_530_830] Re: 830S Rectifier Unit R-11

Hi Joe,
It is 470 ohm 1 Watt Metal Film. Did you find that it is bad
causing your loss of SG ? I know I have found many many instances
where a radio's problem was due to a faulty component on the Rectifier
Board. It is the FIRST place I go when checking out a rig.
By the way, when BAMA is busy, go to my site for manuals
www.n6wk.com/kenwood FREE downloads to all.
I just added a bunch of TS-510 Files and more
73,
Gordon

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> BAMA is busy. Can someone check your 830S service manual and let me
know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The
one that is in there now is about halfway in size between the two.
>
> Thanks,
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10617. Re: [TS-520_820_530_830] Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 04:40:57 UTC
From: N6WK
Topic: 10607 Message: 10617

No problem Joe.
Happy I was able to point you in the right direction to find your loss
of SG.
That's what we are all here for.
If you want a REALLY good 830 Schematic, download the TS-830 Excellent
schematic file from my website.
http://www.n6wk.com/kenwood/TS-830S-excellent%20schematic.pdf
You will be amazed at it's Quality.
Thanks to Ken K4EAA for the file and his hard work scanning it and
putting it all together.
73 es Gud Luck Joe !
Gordon
N6WK

jsloss wrote:

> R-11 was open. Did not have a 1W metal film so sandwiched a 1W carbon
> in its place. All works as it should now.
>
> Many thanks Gordon.
>
> Joe k7mks
> ----- Original Message -----
> From: Gordon
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Wednesday, October 25, 2006 8:09 PM
> Subject: [TS-520_820_530_830] Re: 830S Rectifier Unit R-11
>
> Hi Joe,
> It is 470 ohm 1 Watt Metal Film. Did you find that it is bad
> causing your loss of SG ? I know I have found many many instances
> where a radio's problem was due to a faulty component on the Rectifier
> Board. It is the FIRST place I go when checking out a rig.
> By the way, when BAMA is busy, go to my site for manuals
> www.n6wk.com/kenwood FREE downloads to all.
> I just added a bunch of TS-510 Files and more
> 73,
> Gordon
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "jsloss" <k7mks@...> wrote:
> >

> > BAMA is busy. Can someone check your 830S service manual and let me
> know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The
> one that is in there now is about halfway in size between the two.
> >
> > Thanks,
> > Joe k7mks
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10618. Re: VFO dial lights

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 05:31:57 UTC
From: w5rkl
Topic: 10598 Message: 10618

I replaced every lamp in my 820 with the 12 volt wheat lamps Radio Shack sells. The only ones that were difficult to install were the internal and external VFO dial lamps. The others were easy. They are as bright as the original lamps from Kenwood and only required a trip to Radio Shack to get em.

73's

Mike
W5RKL

10619. RE: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 05:32:24 UTC
From: Ron Hauser
Topic: 9760 Message: 10619

Hey Kevin, on the plate current, I have essentially the same 260ma after several iterations of plate dip and load peak on 40m, with about 110w out on my 830. So I think your rig is just fine. If I recall the manual says no higher than 265ma, and I routinely "unload" by a few milliamps. I don't think that there is any downside to backing down the load control to run a few milliamps lower. I believe that is actually good practice to preserve tube life.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin Hunter
Sent: Tuesday, October 24, 2006 4:57 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Good afternoon everyone. I figured I should post an update to let everyone know how this project has been going.

Walt - I apologize for not replying to your previous post. I just overlooked it until I sat down to write this reply.

I have the rig on the air and just made a contact on 40 meters with it. It is certainly usable now. Audio and signal reports were favorable with nothing objectionable noted. I have a couple of questions that I will pose to the group in a moment.

Here is all that comes to mind about what I did to try to get this rig operational again. I thoroughly checked all of the components on the rectifier board as one person suggested. I found nearly all of the carbon comp resistors on that board were out of specification. Most were probably within range of what would be expected given their age. I found one of the 470K resistors was completely out of range. I wish I was able to tell everyone exactly which one it was. As I said before, nearly all of them were outside of the stated tolerance. After finding that, I just started removing them from the board and throwing them in a pile. I had decided to replace all of the resistors on the board. Once I had them all in a pile, I began checking them again. That is when I found one that checked way high. Again, I don't know which position it came from. I can only say that the markings indicated it was one that should have been 470K.

I found that the cathode resistors I had previously replaced were up around 30 ohms now. I replaced those again.

Several of the .047 ceramic disk caps on the final board looked as if the edges were eroding away. I'm not sure if that was from physical wear from me having the board in and out so much or from an electrical problem. They did not appear to have been overheated and were not shorted. In any event, I replaced all of them that appeared suspect.

I also began to wonder if my "new" tubes may, in an unlikely coincidence, be bad. I swapped them out with another old set that I had (not the same set that were installed when this problem first occurred).

I checked final output relay and found the contacts on one side were pitted. Each side exhibited some resistance. I cleaned the contacts and resolved that problem.

That's all that I can think of right now in the way of changing things.

I realize that the way I went about this makes it difficult to isolate exactly what the problem was, but I was getting a little frustrated with this rig and about ready to stick it on the shelf.

I fired it up and things seemed to check out reasonably well. I neutralized the tubes and gave things a final check.

This leads me to my only remaining issue with regard to the transmitter section...

When tuning the transmitter, I find that the plate current is up around 260mA after dipping it, if I have the load control set for maximum RF out (about 115 watts). If I reduce the load control so that the RF is about 100 watts, the plate current is about 240mA.

I think that is still a shade higher than what it should be. I was looking for something down near 225mA. My understanding of the tuning proceedure is that I should increase the load control to the point of maximum RF while periodically dipping the plate current during the process.

Is 260mA unacceptable? If so, is there any harm in reducing the load control to bring the plate current down some.

I should mention that I obtained all of these figures on 40 meters. I have not tried loading it on other bands yet.

Thanks to everyone who offered assistance to me on this project. I appreciate your time and effort. I may not have everything completely fixed, but at least the rig is usable now.

The issue with no TX and weak RX on the 28Mhz position still exists, and after looking at things while spending so much time with this rig, I think that is the result of a botched 11 meter mod. I may wrestle with that at a later time.

What are your thoughts on the level of plate current? In the mean time, I'll check it on other bands and see what I come up with.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Kevin:
> Just to humor me, please turn the rig off. Let it discharge. With your ohm meter measure the resistance from pin 1 on either final tube socket to ground. Pin 1 is where the 20 ohm resistors go. Do not remove the tubes or resistors when doing this. Please let me know what the resistance it.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin Hunter
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 9:11 AM
> Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
>
>
> Gordon - No low voltage type problems when the xformer saver is not in
> line. I will begin checking the components on that rectifier board.
> I have not done that so far. Thanks for the guidance. I'll keep
> you posted.
>
> Kevin
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks for the info Kevin,
> > With the Transformer saver in line, I would expect you to experience
> > the effects of Low Voltage on Transmit because of the resistance in
> > the light bulb to the circuit. The rig is Not seeing full Voltage
> > under Load.
> > If you remove the Transformer saver, do you experience the same
> effects ?
> > I am studing the circuit and think we might want to start looking at
> > the Rf Unit. Have you checked all the Components on the Rectifier
> > board ?? They are all important to everything eles down the line .
> > Those parts seem to fail Often !
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - I am able to back the CARRIER control down enough to
get the

> > > plate current under control. I have to turn it way down though. I
> > > found that if there is any ALC deflection, the plate current
becomes
> > > excessive. I backed the ALC down enough to keep the plate current
> > > at 250mA. I also had to keep the LOAD cap fully meshed. The output
> > > was about 60 watts. At 350mA grid current, the output was 110
watts.
> > >
> > > R2 thru R5 are definitely 20 ohms. I had to replace them
because the
> > > other ones were destroyed. R6 checked 2.719k.
> > >
> > > The light bulb does not glow very bright during TX in the TUNE
> > > position, but the rig seems to be suffering effects of low
voltage.
> > > I notice the PLL appears to lose lock if I increase the carrier
> > > control very much.
> > >
> > > I checked the line fuse and found someone had a 4 amp fuse in
there.
> > > I was glad to see that. It has never blown, so I feel none of
> > > this incient has stressed the transformer very much.
> > >
> > > I'm not sure how much it would solve, but I would feel better if I
> > > could find whatever it was that I heard arc.
> > >
> > > Thanks for your help on this so far. I was off work today, but go
> > > back tomorrow, so I'll have to put this project on hold for a
couple
> > > of days.
> > >
> > > Kevin
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Hmmm,
> > > > Very Interesting. I checked the 830 I have here and here is
what I
> > > > read. The SG in receive is 235 in USB and the FG is -92 USB
in RX
> > > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and
> 85 in
> > > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > > Your Voltages appear higher across the Board.
> > > > Let me study the schematic some more and get back to you.
> > > > Perhaps some of the other Guys on here have some Ideas also.
I am
> > > > puzzled on this. If you back the Carrier control off, can

you get
> > > > the plate current to stop pegging or does the rig appear to
take off
> > > > on its own ?? I am starting to wonder If clif was on to
something in
> > > > the Meter circuit, although you stated that R6 and r10
checked OK.
> > > > Does your light bulb (in the Transformer saver) Glow Really
> bright in
> > > > Tune Position during transmit ?? R2, R3, R4, and R5 all
checked ok
> > > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
> am not
> > > > doubting you, just double checking.
> > > >
> > > > Gordon
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > wrote:
> > > > >
> > > > > Gordon - I did build the transformer saver.
> > > > >
> > > > > Here are the voltages...
> > > > >
> > > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE
> > position
> > > > > on TX.
> > > > >
> > > > > FG= -64V in LSB or TUNE Position during TX
> > > > >
> > > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > > >
> > > > > As for actual output. I can't answer that. Since the plate
> > current
> > > > > goes off scale when I key it in CW mode, I've never left it
> > keyed more
> > > > > than about half a second.
> > > > >
> > > > > ALC appears to be within spec in the TUNE position.
> > > > >
> > > > > Kevin
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@> wrote:

> > > > > >
> > > > > > Hi Keith,
> > > > > > Ok, Those voltages look OK in receive. Just what I would
> > > expect to
> > > > > > see in a normal working 830.
> > > > > > Did you build the Transformer saver?
> > > > > > The reason I ask is that I want you to take some
measurements
> > > while in
> > > > > > Transmit mode Very quickly, But I don't want you to burn
> > > anything up.
> > > > > > I also forgot, Do you get ALC readings in tune? I think you
> > said Yes
> > > > > > before. Next question, what kind of Ouput do you get when
> it's all
> > > > > > tuned up?
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > >
> > > > > > > SG = 267V
> > > > > > > FG = -104V
> > > > > > > DRV = I was able to see a very low level AC voltage, about
> > > > 200mV. It
> > > > > > > appeared to be unaffected by meshing the drive capacitor.
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > wrote:
> > > > > > > >
> > > > > > > > Kevin, ,
> > > > > > > > lets start on any band in receive. I just want to
get some
> > > > base line
> > > > > > > > figures. I would suggest doing it with the heaters on.
> Adfter
> > > > you
> > > > > > > > get those, we can evaluate them and go from there.
> > > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
> there as I
> > > > am sure
> > > > > > > > you are aware, even when just receiving. Always keep one
> hand
> > > > behind
> > > > > > > > you.
> > > > > > > >
> > > > > > > > Gordon

> > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > <kj558@>
> > > > > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Gordon - I did replace R7 and R8 at the same time as I
> > > > > > replaced the
> > > > > > > > > > others. I checked them out of circuit and they are
> > still 100
> > > > > > ohms.
> > > > > > > > > > No signs of heating or cracking.
> > > > > > > > > >
> > > > > > > > > > I am familiar with the problem of the cracked shaft
> couplers
> > > > > > on the
> > > > > > > > > > bandswitch. These don't show any signs of cracking. I
> > > assume
> > > > > > > > > > someone must have replaced them somewhere along
the way.
> > > > > > > > > >
> > > > > > > > > > I will check R6 and R10.
> > > > > > > > > >
> > > > > > > > > > You might give me some guidance on checking those
voltages
> > > > > on the
> > > > > > > > > > final board. I don't have any problem making the
> > > > > > measurement, but
> > > > > > > > > > tell me what condition the transmitter should be in
> when I'm
> > > > > > taking
> > > > > > > > > > the reading. I'm refering to things like mode switch
> > > position,
> > > > > > TX or
> > > > > > > > > > RX, etc.
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> <n6wk@>
> > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma
> in tune
> > > > > > position.
> > > > > > > > > > Ok next question, What do R7 and R8 ohm out at
under the
> > > finals
> > > > > > ? they
> > > > > > > > > > should be 100 ohm 1/2 watt. Did you replace those as
> > well as

> > > > > > the 20
> > > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > > Also, as Clif mentioned, check the resistors R6
and R10
> > > in the
> > > > > > final
> > > > > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > > > > Also, how is the bandswitch coupler inside the Final
> cage?
> > > > Is it
> > > > > > > > > > broken? Cracked ?
> > > > > > > > > > Can you take some voltage readings from the Final
> > > board for
> > > > > > us? If
> > > > > > > > > > so, What is the voltage on the SG terminal, then on
> > the DRV
> > > > > > terminal
> > > > > > > > > > also the FG terminal.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > > Gordon - The idle bias is now up around 150 mA. I
> > had it
> > > > > > adjusted to
> > > > > > > > > > 60mA before I started having problems. I
> > re-adjusted it
> > > > > > down to
> > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > >
> > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > >
> > > > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > > >
> > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection
within
> > > > the ALC
> > > > > > > > > > bracket
> > > > > > > > > > with the carrier control at approximately 9
o'clock
> > > > position.
> > > > > > > > > >
> > > > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > > > >
> > > > > > > > > >

> > > > > > > > > > > > Kevin
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Gordon"
> > > <n6wk@>
> > > > > > wrote:
> > > > > > > > > > > > >
> > > > > > > > > > > > > Kevin,
> > > > > > > > > > > > > What does your ip meter show for idle bias
in USB
> > > > when you
> > > > > > > > > key the
> > > > > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC
and the
> > > plate
> > > > > > > current
> > > > > > > > > > > > > read in Tune mode? What does your plate voltage
> > > show? You
> > > > > > > might want
> > > > > > > > > > > > > to hook up a transformer saver while you
figure this
> > > out.
> > > > > > > There is
> > > > > > > > > > > > > directions on building one in the Files
section by
> > Walt
> > > > > > N9WB.
> > > > > > > > > > > > > What brand and number tubes did you install? The
> > > chinese
> > > > > > > 6146's are
> > > > > > > > > > > > > known to Short/Flash so they are not a good
choice.
> > > > > > > > > > > > >
> > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > ---
> > > > > > > > > > > > >
> > > > > > > > > > > > >
> > > > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > > <kj558@>
> > > > > > > > > > > > wrote:
> > > > > > > > > > > > > >
> > > > > > > > > > > > > Gordon - You are correct. I do mean plate
> current.
> > > > > > > Thanks for
> > > > > > > > > > > > > clearing that up. I was thinking of my SB-1000
> > > > > amp and
> > > > > > > > > > > > refering to

> > > > > > > > > > > > > > grid current.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Gordon"
> > > > > <n6wk@>
> > > > > > > > wrote:
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > > > > > What do you mean " I keyed the radio and the
> Grid
> > > > > > > current went
> > > > > > > > > > > off the
> > > > > > > > > > > > > > > scale" ? Are you referring to Plate
Current ?
> > > > > > > > > > > > > > How are you measuring Grid current while
> > Keying the
> > > > > > rig ?
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Just Curious and trying to get more info to
> > help you
> > > > > > out.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > N6WK
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Kevin
> > > > > Hunter"
> > > > > > > > > > <kj558@>
> > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I've done some research on this forum
before
> > > > > making this
> > > > > > > > > post and
> > > > > > > > > > > > > > > didn't run across a similar situation. I
> hope
> > > > > I've not
> > > > > > > > > > overlooked
> > > > > > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > I recently purchased this 830 so I don't
> > know the
> > > > > > > history on
> > > > > > > > > > > > > > > it...

> > > >

> > > > > > > > > > > > > > > I went back and keyed the radio. The grid
> > > current
> > > > > > > went off
> > > > > > > > > > > > scale. I
> > > > > > > > > > > > > > > looked and found my newly installed
cathode
> > > > > > resistors were
> > > > > > > > > > blown.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I assumed a tube had shorted. I
checked the
> > > > > tubes with
> > > > > > > > > an ohm
> > > > > > > > > > > > meter
> > > > > > > > > > > > > > > > and didn't find any shorts.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I ordered a new set of tubes and new
> resistors.
> > > > They
> > > > > > > > arrived
> > > > > > > > > > today
> > > > > > > > > > > > > > > > and I installed them.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > Operation appears the same. The grid
> > current is
> > > > > > > still off
> > > > > > > > > scale,
> > > > > > > > > > > > > > > > regardless of band.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I am unable to find any visual evidence to
> > > indicate
> > > > > > where
> > > > > > > > > the arc
> > > > > > > > > > > > > > > > occurred.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I've been ham for over 20 years, but this
> is my
> > > > first
> > > > > > > hybrid
> > > > > > > > > > > rig. I'm
> > > > > > > > > > > > > > > > not experienced at troubleshooting
tube type
> > gear.
> > > > > > I'd
> > > > > > > > > > welcome any
> > > > > > > > > > > > > > > > theories or suggestions anyone cares
to offer.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > Assuming I get this problem hashed out,
> > we'll move

> > > > > on to
> > > > > > > > > > > > > > another, less
> > > > > > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Prior to the problem with the
excessive grid
> > > current
> > > > > > > > > occurring I
> > > > > > > > > > > > > > > > > noticed there was no TX and weak RX
when the
> > band
> > > > > > switch
> > > > > > > > > was in
> > > > > > > > > > > > > > > > the 28
> > > > > > > > > > > > > > > > > MHz position, regardless of the position
> of the
> > > > > .5 MHz
> > > > > > > > > button.
> > > > > > > > > > > > > > > > Proper
> > > > > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > >
>

> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
10/3/06
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

10620. Bama's mirror site

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 05:41:36 UTC
From: w5rkl
Topic: 10620 Message: 10620

The link below is Bama's mirror site. It's much easier to get to then the main Bama site. This is the site I use. I don't go to Bama's main site anymore unless I manually download files using the ftp command in Windows "cmd" DOS window.

http://bama.edebris.com/manuals/

This takes you right to the manufactures listing. Just click on the one you want and download the manual. Some are pdf's and some are djvu. You can download the djvu viewer by following the link on this website or google "djvu viewer" and follow the links. It works just like Adobe and is a plug-in for IE6,7 and Mozilla FireFox plus it works as a plain ole Windows djvu file viewer like Adobe.

73's,

Mike
W5RKL

10621. Re: [TS-520_820_530_830] Bama's mirror site

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 05:57:48 UTC
From: N6WK
Topic: 10620 Message: 10621

Mike,
In Windows XP, CMD it is NOT a DOS window.
It is simply Emulating a DOS window.
hi hi..
73,
Gordon
N6WK

w5rkl wrote:

>
> The link below is Bama's mirror site. It's much easier to get to then
> the main Bama site. This is the site I use. I don't go to Bama's main
> site anymore unless I manually download files using the ftp command in
> Windows "cmd" DOS window.
>
> http://bama.edebris.com/manuals/ <http://bama.edebris.com/manuals/>
>
> This takes you right to the manufactures listing. Just click on the
> one you want and download the manual. Some are pdf's and some are
> djvu. You can download the djvu viewer by following the link on this
> website or google "djvu viewer" and follow the links. It works just
> like Adobe and is a plug-in for IE6,7 and Mozilla FireFox plus it
> works as a plain ole Windows djvu file viewer like Adobe.
>
> 73's,
>
> Mike
> W5RKL
>
>

[Non-text portions of this message have been removed]

10622. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 07:01:35 UTC
From: w5rkl
Topic: 9760 Message: 10622

Kenwood recommends a maximum resonant plate current for the TS-830 of 260ma or less. This is outlined on page 18 of the operators manual.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Ron Hauser" <eichmann@...> wrote:
>
> Hey Kevin, on the plate current, I have essentially the same 260ma after
> several iterations of plate dip and load peak on 40m, with about 110w out on
> my 830. So I think your rig is just fine. If I recall the manual says no
> higher than 265ma, and I routinely "unload" by a few milliamps. I don't
> think that there is any downside to backing down the load control to run a
> few milliamps lower. I believe that is actually good practice to preserve
> tube life.
>
> 73
> --Ron
> KC0TLN
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin Hunter
> Sent: Tuesday, October 24, 2006 4:57 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
>
> Good afternoon everyone. I figured I should post an update to let
> everyone know how this project has been going.
>
> Walt - I apologize for not replying to your previous post. I just
> overlooked it until I sat down to write this reply.
>
> I have the rig on the air and just made a contact on 40 meters with
> it. It is certainly usable now. Audio and signal reports were
> favorable with nothing objectionable noted. I have a couple of
> questions that I will pose to the group in a moment.
>
> Here is all that comes to mind about what I did to try to get this rig

> operational again. I thoroughly checked all of the components on the
> rectifier board as one person suggested. I found nearly all of the
> carbon comp resistors on that board were out of specification. Most
> were probably within range of what would be expected given their age.
> I found one of the 470K resistors was completely out of range. I
> wish I was able to tell everyone exactly which one it was. As I said
> before, nearly all of them were outside of the stated tolerance.
> After finding that, I just started removing them from the board and
> throwing them in a pile. I had decided to replace all of the
> resistors on the board. Once I had them all in a pile, I began
> checking them again. That is when I found one that checked way high.
> Again, I don't know which position it came from. I can only say
> that the markings indicated it was one that should have been 470K.
>
> I found that the cathode resistors I had previously replaced were up
> around 30 ohms now. I replaced those again.
>
> Several of the .047 ceramic disk caps on the final board looked as if
> the edges were eroding away. I'm not sure if that was from physical
> wear from me having the board in and out so much or from an
> electrical problem. They did not appear to have been overheated and
> were not shorted. In any event, I replaced all of them that appeared
> suspect.
>
> I also began to wonder if my "new" tubes may, in an unlikely
> coincidence, be bad. I swapped them out with another old set that I
> had (not the same set that were installed when this problem first
> occurred).
>
> I checked final output relay and found the contacts on one side were
> pitted. Each side exhibited some resistance. I cleaned the
> contacts and resolved that problem.
>
> That's all that I can think of right now in the way of changing things.
>
> I realize that the way I went about this makes it difficult to isolate
> exactly what the problem was, but I was getting a little frustrated
> with this rig and about ready to stick it on the shelf.
>
> I fired it up and things seemed to check out reasonably well. I
> neutralized the tubes and gave things a final check.
>
> This leads me to my only remaining issue with regard to the
> transmitter section...
>
> When tuning the transmitter, I find that the plate current is up
> around 260mA after dipping it, if I have the load control set for
> maximum RF out (about 115 watts). If I reduce the load control so
> that the RF is about 100 watts, the plate current is about 240mA.
>

> I think that is still a shade higher than what it should be. I was
> looking for something down near 225mA. My understanding of the
> tuning proceedure is that I should increase the load control to the
> point of maximum RF while periodically dipping the plate current
> during the process.
>
> Is 260mA unacceptable? If so, is there any harm in reducing the load
> control to bring the plate current down some.
>
> I should mention that I obtained all of these figures on 40 meters.
> I have not tried loading it on other bands yet.
>
> Thanks to everyone who offered assistance to me on this project. I
> appreciate your time and effort. I may not have everything
> completely fixed, but at least the rig is usable now.
>
> The issue with no TX and weak RX on the 28Mhz position still exists,
> and after looking at things while spending so much time with this rig,
> I think that is the result of a botched 11 meter mod. I may wrestle
> with that at a later time.
>
> What are your thoughts on the level of plate current? In the mean
> time, I'll check it on other bands and see what I come up with.
>
> Kevin
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Kevin:
> > Just to humor me, please turn the rig off. Let it discharge. With
> your ohm meter measure the resistance from pin 1 on either final tube
> socket to ground. Pin 1 is where the 20 ohm resistors go. Do not
> remove the tubes or resistors when doing this. Please let me know what
> the resistance it.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Kevin Hunter
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, October 04, 2006 9:11 AM
> > Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
> >
> >
> > Gordon - No low voltage type problems when the xformer saver is
not in
> > line. I will begin checking the components on that rectifier board.
> > I have not done that so far. Thanks for the guidance. I'll keep
> > you posted.
> >

> > Kevin
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Thanks for the info Kevin,
> > > With the Transformer saver in line, I would expect you to
experience
> > > the effects of Low Voltage on Transmit because of the
resistance in
> > > the light bulb to the circuit. The rig is Not seeing full Voltage
> > > under Load.
> > > If you remove the Transformer saver, do you experience the same
> > effects ?
> > > I am studing the circuit and think we might want to start
looking at
> > > the Rf Unit. Have you checked all the Components on the Rectifier
> > > board ?? They are all important to everything eles down the line .
> > > Those parts seem to fail Often !
> > > Gordon
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > > wrote:
> > > >
> > > > Gordon - I am able to back the CARRIER control down enough to
> get the
> > > > plate current under control. I have to turn it way down
though. I
> > > > found that if there is any ALC deflection, the plate current
> becomes
> > > > excessive. I backed the ALC down enough to keep the plate
current
> > > > at 250mA. I also had to keep the LOAD cap fully meshed. The
output
> > > > was about 60 watts. At 350mA grid current, the output was 110
> watts.
> > > >
> > > > R2 thru R5 are definitely 20 ohms. I had to replace them
> because the
> > > > other ones were destroyed. R6 checked 2.719k.
> > > >
> > > > The light bulb does not glow very bright during TX in the TUNE
> > > > position, but the rig seems to be suffering effects of low
> voltage.
> > > > I notice the PLL appears to lose lock if I increase the carrier
> > > > control very much.
> > > >
> > > > I checked the line fuse and found someone had a 4 amp fuse in
> there.

> > > > I was glad to see that. It has never blown, so I feel none of
> > > > this incient has stressed the transformer very much.
> > > >
> > > > I'm not sure how much it would solve, but I would feel
better if I
> > > > could find whatever it was that I heard arc.
> > > >
> > > > Thanks for your help on this so far. I was off work today,
but go
> > > > back tomorrow, so I'll have to put this project on hold for a
> couple
> > > > of days.
> > > >
> > > > Kevin
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
wrote:
> > > > >
> > > > > Hmmm,
> > > > > Very Interesting. I checked the 830 I have here and here is
> what I
> > > > > read. The SG in receive is 235 in USB and the FG is -92 USB
> in RX
> > > > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and
> > 85 in
> > > > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > > > Your Voltages appear higher across the Board.
> > > > > Let me study the schematic some more and get back to you.
> > > > > Perhaps some of the other Guys on here have some Ideas also.
> I am
> > > > > puzzled on this. If you back the Carrier control off, can
> you get
> > > > > the plate current to stop pegging or does the rig appear to
> take off
> > > > > on its own ?? I am starting to wonder If clif was on to
> something in
> > > > > the Meter circuit, although you stated that R6 and r10
> checked OK.
> > > > > Does your light bulb (in the Transformer saver) Glow Really
> > bright in
> > > > > Tune Position during transmit ?? R2, R3, R4, and R5 all
> checked ok
> > > > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
> > am not
> > > > > doubting you, just double checking.
> > > > >
> > > > > Gordon
> > > > >

> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > wrote:
> > > > > >
> > > > > > Gordon - I did build the transformer saver.
> > > > > >
> > > > > > Here are the voltages...
> > > > > >
> > > > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in
TUNE
> > > position
> > > > > > on TX.
> > > > > >
> > > > > > FG= -64V in LSB or TUNE Position during TX
> > > > > >
> > > > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > > > >
> > > > > > As for actual output. I can't answer that. Since the plate
> > > current
> > > > > > goes off scale when I key it in CW mode, I've never left it
> > > keyed more
> > > > > > than about half a second.
> > > > > >
> > > > > > ALC appears to be within spec in the TUNE position.
> > > > > >
> > > > > > Kevin
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> <n6wk@> wrote:
> > > > > > >
> > > > > > > Hi Keith,
> > > > > > > Ok, Those voltages look OK in receive. Just what I would
> > > > expect to
> > > > > > > see in a normal working 830.
> > > > > > > Did you build the Transformer saver?
> > > > > > > The reason I ask is that I want you to take some
> measurements
> > > > while in
> > > > > > > Transmit mode Very quickly, But I don't want you to burn
> > > > anything up.
> > > > > > > I also forgot, Do you get ALC readings in tune? I
think you
> > > said Yes
> > > > > > > before. Next question, what kind of Ouput do you get when
> > > it's all

> > > > > > > tuned up?
> > > > > > > >
> > > > > > > > Gordon
> > > > > > > >
> > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > SG = 267V
> > > > > > > > > FG = -104V
> > > > > > > > > DRV = I was able to see a very low level AC voltage,
about
> > > > > > 200mV. It
> > > > > > > > > appeared to be unaffected by meshing the drive
capacitor.
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> <n6wk@>
> > > wrote:
> > > > > > > > > >
> > > > > > > > > > Kevin, ,
> > > > > > > > > > lets start on any band in receive. I just want to
> get some
> > > > > > base line
> > > > > > > > > > figures. I would suggest doing it with the heaters
on.
> > Adfter
> > > > > > you
> > > > > > > > > > get those, we can evaluate them and go from there.
> > > > > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
> > there as I
> > > > > > am sure
> > > > > > > > > > you are aware, even when just receiving. Always
keep one
> > hand
> > > > > > behind
> > > > > > > > > > you.
> > > > > > > > > >
> > > > > > > > > > Gordon
> > > > > > > > > >
> > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Gordon - I did replace R7 and R8 at the same
time as I
> > > > > > replaced the
> > > > > > > > > > > others. I checked them out of circuit and they are
> > > still 100

> > > > > > ohms.
> > > > > > > > > > > No signs of heating or cracking.
> > > > > > > > > > >
> > > > > > > > > > > I am familiar with the problem of the cracked shaft
> > couplers
> > > > > > > on the
> > > > > > > > > > > bandswitch. These don't show any signs of
cracking. I
> > > > assume
> > > > > > > > > > > someone must have replaced them somewhere along
> the way.
> > > > > > > > > > >
> > > > > > > > > > > I will check R6 and R10.
> > > > > > > > > > >
> > > > > > > > > > > You might give me some guidance on checking those
> voltages
> > > > > on the
> > > > > > > > > > > final board. I don't have any problem making the
> > > > > > measurement, but
> > > > > > > > > > > tell me what condition the transmitter should be in
> > when I'm
> > > > > > taking
> > > > > > > > > > > the reading. I'm refering to things like mode switch
> > > > position,
> > > > > > > > TX or
> > > > > > > > > > > RX, etc.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > <n6wk@>
> > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma
> > in tune
> > > > > > position.
> > > > > > > > > > > Ok next question, What do R7 and R8 ohm out at
> under the
> > > > > finals
> > > > > > > > > > > ? they
> > > > > > > > > > > should be 100 ohm 1/2 watt. Did you replace
those as
> > > well as
> > > > > > > the 20
> > > > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > > > Also, as Clif mentioned, check the resistors R6
> and R10
> > > > in the
> > > > > > > final
> > > > > > > > > > > section as they are the resistors for the
Meter IP.

> > > > > > > > > > > Also, how is the bandswitch coupler inside the
Final
> > cage?
> > > > > Is it
> > > > > > > > > > > broken? Cracked ?
> > > > > > > > > > > Can you take some voltage readings from the Final
> > > > board for
> > > > > > > us? If
> > > > > > > > > > > so, What is the voltage on the SG terminal,
then on
> > > the DRV
> > > > > > terminal
> > > > > > > > > > > also the FG terminal.
> > > > > > > > > > >
> > > > > > > > > > > Gordon
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> > Hunter"
> > > > > > <kj558@>
> > > > > > > > > > > wrote:
> > > > > > > > > > >
> > > > > > > > > > > Gordon - The idle bias is now up around 150
mA. I
> > > had it
> > > > > > > adjusted to
> > > > > > > > > > > 60mA before I started having problems. I
> > > re-adjusted it
> > > > > > > down to
> > > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > > >
> > > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > > >
> > > > > > > > > > > Ip in TUNE mode reads 130mA
> > > > > > > > > > >
> > > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection
> within
> > > > > the ALC
> > > > > > > > > bracket
> > > > > > > > > > > with the carrier control at approximately 9
> o'clock
> > > > > position.
> > > > > > > > > > >
> > > > > > > > > > > The replacement tubes are Sylvania brand
6146B's.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > Kevin
> > > > > > > > > > >
> > > > > > > > > > >

> > > > > > > > > > > > >
> > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Gordon"
> > > > <n6wk@>
> > > > > > > wrote:
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > Kevin,
> > > > > > > > > > > > > > > > What does your ip meter show for idle bias
> in USB
> > > > > > when you
> > > > > > > > > > > > key the
> > > > > > > > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC
> and the
> > > > > plate
> > > > > > > > > > current
> > > > > > > > > > > > > > > read in Tune mode? What does your plate
voltage
> > > > show? You
> > > > > > > > > might want
> > > > > > > > > > > > > > > to hook up a transformer saver while you
> figure this
> > > > out.
> > > > > > > > There is
> > > > > > > > > > > > > > > directions on building one in the Files
> section by
> > > Walt
> > > > > > > N9WB.
> > > > > > > > > > > > > > > What brand and number tubes did you
install? The
> > > > chinese
> > > > > > > > > 6146's are
> > > > > > > > > > > > > > > known to Short/Flash so they are not a good
> choice.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > > ---
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin
> > Hunter"
> > > > > > > <kj558@>
> > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Gordon - You are correct. I do mean plate
> > current.
> > > > > > > Thanks for
> > > > > > > > > > > > > > > > clearing that up. I was thinking of my
SB-1000
> > > > > amp and
> > > > > > > > > > > > > > > refering to

> > > > > > > > > > > > > > > grid current.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> > "Gordon"
> > > > > > <n6wk@>
> > > > > > > > > wrote:
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > > > > > > > What do you mean " I keyed the radio
and the
> > Grid
> > > > > > > > current went
> > > > > > > > > > > > > > off the
> > > > > > > > > > > > > > > > > scale" ? Are you referring to Plate
> Current ?
> > > > > > > > > > > > > > > > How are you measuring Grid current while
> > > Keying the
> > > > > > > rig ?
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Just Curious and trying to get more
info to
> > > help you
> > > > > > > out.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > > > N6WK
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> > "Kevin
> > > > > > Hunter"
> > > > > > > > > > <kj558@>
> > > > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I've done some research on this forum
> before
> > > > > > making this
> > > > > > > > > > post and
> > > > > > > > > > > > > > > > > didn't run across a similar situation. I
> > hope
> > > > > > I've not
> > > > > > > > > > overlooked
> > > > > > > > > > > > > > > > > something that has been addressed
before.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I recently purchased this 830 so I don't

> > > know the
> > > > > > > > > history on
> > > > > > > > > > > > it...
> > > > > > > > > > > > > > > > > >
> I used it on the air and everything
seemed
> > to be
> > > > > > > working
> > > > > > > > > > > > fine and
> > > > > > > > > > > > > > > > > > within specifications. An internal
> inspection
> > > > > > revealed
> > > > > > > > > > > someone had
> > > > > > > > > > > > > > > > > done the "super size" cathode resistor
> > mod. I
> > > > > > > > ordered the
> > > > > > > > > > > > > > > > appropriate resistors and replaced
them to
> > avoid
> > > > > > future
> > > > > > > > > > > problems.
> > > > > > > > > > > > > > > > Rig still working FB after install.
> I noticed the tubes were of different
> > > manufacture,
> > > > > > so I
> > > > > > > > > > > figured they
> > > > > > > > > > > > > > > > > were not a matched set. I went
through the
> > > > > > procedure and
> > > > > > > > > > > neutralized
> > > > > > > > > > > > > > > > > the tubes in the event it had not been
> done.
> > > > > > > > Adjustment was
> > > > > > > > > > > > required.
> After neutralization, I checked the
> output and
> > > > > > dipped the
> > > > > > > > > > > plate
> > > > > > > > > > > > > > > > > current. Everything appeared within
> spec and
> > > > > working
> > > > > > > > > > > normally.
> I walked away from the bench and made
> it about
> > > > three
> > > > > > > > > > steps
> > > > > > > > > > > > > > > > when I

> > > > > > > > > > > > > > > > > heard an arc. I was hoping it didn't
come
> > > > from the
> > > > > > > 830,
> > > > > > > > > > > but knew
> that it probably did.
> >
> I went back and keyed the radio. The
grid
> > > > current
> > > > > > > > went off
> > > > > > > > > > > > > > > scale. I
> looked and found my newly installed
> cathode
> > > > > > > resistors were
> > > > > > > > > > > > > > blown.
> >
> I assumed a tube had shorted. I
> checked the
> > > > > > tubes with
> > > > > > > > > > > > an ohm
> > > > > > > > > > > > > > > > > > meter
> and didn't find any shorts.
> >
> I ordered a new set of tubes and new
> > resistors.
> > > > > > They
> > > > > > > > > > > arrived
> > > > > > > > > > > > > > > > > today
> and I installed them.
> >
> Operation appears the same. The grid
> > > current is
> > > > > > > > still off
> > > > > > > > > > > > > > scale,
> regardless of band.
> >
> I am unable to find any visual
evidence to
> > > > indicate
> > > > > > > > where
> > > > > > > > > > > > > > the arc
> occurred.
> >
> I've been ham for over 20 years, but
this
> > is my
> > > > > > > first
> > > > > > > > > > > > > hybrid
> rig. I'm

> > > > > > > > > > > > > > > > > not experienced at troubleshooting
> tube type
> > > gear.
> > > > > > I'd
> > > > > > > > > > > > > welcome any
> > > > > > > > > > > > > > > > > > theories or suggestions anyone cares
> to offer.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Assuming I get this problem hashed out,
> > > we'll move
> > > > > > on to
> > > > > > > > > > > > > another, less
> > > > > > > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Prior to the problem with the
> excessive grid
> > > > current
> > > > > > > > > occurring I
> > > > > > > > > > > > > > > > > > noticed there was no TX and weak RX
> when the
> > > band
> > > > > > switch
> > > > > > > > > > > was in
> > > > > > > > > > > > > > > > the 28
> > > > > > > > > > > > > > > > > > MHz position, regardless of the position
> > of the
> > > > > .5 MHz
> > > > > > > > > > button.
> > > > > > > > > > > > > > > > Proper
> > > > > > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >

> >
> >
> >
> >
>

> --
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
> 10/3/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> Yahoo! Groups Links
>

10623. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 10:52:00 UTC
From: n9wb
Topic: 9760 Message: 10623

If you are turning the load control counterclockwise to back it down, you are degrading the final linearity.

Vy 73, Walt N9WB

----- Original Message -----
From: Ron Hauser
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 26, 2006 12:32 AM
Subject: RE: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Hey Kevin, on the plate current, I have essentially the same 260ma after several iterations of plate dip and load peak on 40m, with about 110w out on my 830. So I think your rig is just fine. If I recall the manual says no higher than 265ma, and I routinely "unload" by a few milliamps. I don't think that there is any downside to backing down the load control to run a few milliamps lower. I believe that is actually good practice to preserve tube life.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin Hunter
Sent: Tuesday, October 24, 2006 4:57 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Good afternoon everyone. I figured I should post an update to let everyone know how this project has been going.

Walt - I apologize for not replying to your previous post. I just overlooked it until I sat down to write this reply.

I have the rig on the air and just made a contact on 40 meters with it. It is certainly usable now. Audio and signal reports were favorable with nothing objectionable noted. I have a couple of questions that I will pose to the group in a moment.

Here is all that comes to mind about what I did to try to get this rig operational again. I thoroughly checked all of the components on the rectifier board as one person suggested. I found nearly all of the carbon comp resistors on that board were out of specification. Most were probably within range of what would be expected given their age. I found one of the 470K resistors was completely out of range. I

wish I was able to tell everyone exactly which one it was. As I said before, nearly all of them were outside of the stated tolerance. After finding that, I just started removing them from the board and throwing them in a pile. I had decided to replace all of the resistors on the board. Once I had them all in a pile, I began checking them again. That is when I found one that checked way high. Again, I don't know which position it came from. I can only say that the markings indicated it was one that should have been 470K.

I found that the cathode resistors I had previously replaced were up around 30 ohms now. I replaced those again.

Several of the .047 ceramic disk caps on the final board looked as if the edges were eroding away. I'm not sure if that was from physical wear from me having the board in and out so much or from an electrical problem. They did not appear to have been overheated and were not shorted. In any event, I replaced all of them that appeared suspect.

I also began to wonder if my "new" tubes may, in an unlikely coincidence, be bad. I swapped them out with another old set that I had (not the same set that were installed when this problem first occurred).

I checked final output relay and found the contacts on one side were pitted. Each side exhibited some resistance. I cleaned the contacts and resolved that problem.

That's all that I can think of right now in the way of changing things.

I realize that the way I went about this makes it difficult to isolate exactly what the problem was, but I was getting a little frustrated with this rig and about ready to stick it on the shelf.

I fired it up and things seemed to check out reasonably well. I neutralized the tubes and gave things a final check.

This leads me to my only remaining issue with regard to the transmitter section...

When tuning the transmitter, I find that the plate current is up around 260mA after dipping it, if I have the load control set for maximum RF out (about 115 watts). If I reduce the load control so that the RF is about 100 watts, the plate current is about 240mA.

I think that is still a shade higher than what it should be. I was looking for something down near 225mA. My understanding of the tuning proceedure is that I should increase the load control to the point of maximum RF while periodically dipping the plate current during the process.

Is 260mA unacceptable? If so, is there any harm in reducing the load control to bring the plate current down some.

I should mention that I obtained all of these figures on 40 meters.
I have not tried loading it on other bands yet.

Thanks to everyone who offered assistance to me on this project. I
appreciate your time and effort. I may not have everything
completely fixed, but at least the rig is usable now.

The issue with no TX and weak RX on the 28Mhz position still exists,
and after looking at things while spending so much time with this rig,
I think that is the result of a botched 11 meter mod. I may wrestle
with that at a later time.

What are your thoughts on the level of plate current? In the mean
time, I'll check it on other bands and see what I come up with.

Kevin

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Kevin:
> Just to humor me, please turn the rig off. Let it discharge. With
your ohm meter measure the resistance from pin 1 on either final tube
socket to ground. Pin 1 is where the 20 ohm resistors go. Do not
remove the tubes or resistors when doing this. Please let me know what
the resistance it.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin Hunter
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, October 04, 2006 9:11 AM
> Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
>
>
> Gordon - No low voltage type problems when the xformer saver is not in
> line. I will begin checking the components on that rectifier board.
> I have not done that so far. Thanks for the guidance. I'll keep
> you posted.
>
> Kevin
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks for the info Kevin,
> > With the Transformer saver in line, I would expect you to experience
> > the effects of Low Voltage on Transmit because of the resistance in
> > the light bulb to the circuit. The rig is Not seeing full Voltage
> > under Load.
> > If you remove the Transformer saver, do you experience the same
> effects ?
> > I am studing the circuit and think we might want to start looking at

> > the Rf Unit. Have you checked all the Components on the Rectifier
> > board ?? They are all important to everything eles down the line .
> > Those parts seem to fail Often !
> > Gordon
> >
> >
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter" <kj558@>
> > wrote:
> > >
> > > Gordon - I am able to back the CARRIER control down enough to
get the
> > > plate current under control. I have to turn it way down though. I
> > > found that if there is any ALC deflection, the plate current
becomes
> > > excessive. I backed the ALC down enough to keep the plate current
> > > at 250mA. I also had to keep the LOAD cap fully meshed. The output
> > > was about 60 watts. At 350mA grid current, the output was 110
watts.
> > >
> > > R2 thru R5 are definitely 20 ohms. I had to replace them
because the
> > > other ones were destroyed. R6 checked 2.719k.
> > >
> > > The light bulb does not glow very bright during TX in the TUNE
> > > position, but the rig seems to be suffering effects of low
voltage.
> > > I notice the PLL appears to lose lock if I increase the carrier
> > > control very much.
> > >
> > > I checked the line fuse and found someone had a 4 amp fuse in
there.
> > > I was glad to see that. It has never blown, so I feel none of
> > > this incient has stressed the transformer very much.
> > >
> > > I'm not sure how much it would solve, but I would feel better if I
> > > could find whatever it was that I heard arc.
> > >
> > > Thanks for your help on this so far. I was off work today, but go
> > > back tomorrow, so I'll have to put this project on hold for a
couple
> > > of days.
> > >
> > > Kevin
> > >
> > >
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Hmmm,

> > > > Very Interesting. I checked the 830 I have here and here is
what I
> > > > read. The SG in receive is 235 in USB and the FG is -92 USB
in RX
> > > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune RX and
> 85 in
> > > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > > Your Voltages appear higher across the Board.
> > > > Let me study the schematic some more and get back to you.
> > > > Perhaps some of the other Guys on here have some Ideas also.
I am
> > > > puzzled on this. If you back the Carrier control off, can
you get
> > > > the plate current to stop pegging or does the rig appear to
take off
> > > > on its own ?? I am starting to wonder If clif was on to
something in
> > > > the Meter circuit, although you stated that R6 and r10
checked OK.
> > > > Does your light bulb (in the Transformer saver) Glow Really
> bright in
> > > > Tune Position during transmit ?? R2, R3, R4, and R5 all
checked ok
> > > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
> am not
> > > > doubting you, just double checking.
> > > >
> > > > Gordon
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > wrote:
> > > > >
> > > > > Gordon - I did build the transformer saver.
> > > > >
> > > > > Here are the voltages...
> > > > >
> > > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in TUNE
> > position
> > > > > on TX.
> > > > >
> > > > > FG= -64V in LSB or TUNE Position during TX
> > > > >
> > > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > > >
> > > > > As for actual output. I can't answer that. Since the plate
> > current
> > > > > goes off scale when I key it in CW mode, I've never left it

> > keyed more
> > > > > than about half a second.
> > > > >
> > > > > ALC appears to be within spec in the TUNE position.
> > > > >
> > > > > Kevin
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@> wrote:
> > > > > >
> > > > > > Hi Keith,
> > > > > > Ok, Those voltages look OK in receive. Just what I would
> > > expect to
> > > > > > see in a normal working 830.
> > > > > > Did you build the Transformer saver?
> > > > > > The reason I ask is that I want you to take some
measurements
> > > while in
> > > > > > Transmit mode Very quickly, But I don't want you to burn
> > > anything up.
> > > > > > I also forgot, Do you get ALC readings in tune? I think you
> > said Yes
> > > > > > before. Next question, what kind of Ouput do you get when
> it's all
> > > > > > tuned up?
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > SG = 267V
> > > > > > > FG = -104V
> > > > > > > DRV = I was able to see a very low level AC voltage, about
> > > > 200mV. It
> > > > > > > appeared to be unaffected by meshing the drive capacitor.
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
<n6wk@>
> > wrote:
> > > > > > > >
> > > > > > > > Kevin, ,
> > > > > > > > lets start on any band in receive. I just want to
get some
> > > base line
> > > > > > > > figures. I would suggest doing it with the heaters on.

> Adfter
> > > > you
> > > > > > > > > get those, we can evaluate them and go from there.
> > > > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
> there as I
> > > > > > am sure
> > > > > > > > > you are aware, even when just receiving. Always keep one
> hand
> > > > behind
> > > > > > > > you.
> > > > > > > > >
> > > > > > > > > Gordon
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > <kj558@>
> > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > Gordon - I did replace R7 and R8 at the same time as I
> > > > > replaced the
> > > > > > > > > others. I checked them out of circuit and they are
> > still 100
> > > > > ohms.
> > > > > > > > > No signs of heating or cracking.
> > > > > > > > >
> > > > > > > > > I am familiar with the problem of the cracked shaft
> couplers
> > > > > on the
> > > > > > > > > bandswitch. These don't show any signs of cracking. I
> > > assume
> > > > > > > > > someone must have replaced them somewhere along
the way.
> > > > > > > > >
> > > > > > > > > I will check R6 and R10.
> > > > > > > > >
> > > > > > > > > You might give me some guidance on checking those
voltages
> > > > on the
> > > > > > > > > final board. I don't have any problem making the
> > > > > measurement, but
> > > > > > > > > tell me what condition the transmitter should be in
> when I'm
> > > > > taking
> > > > > > > > > the reading. I'm refering to things like mode switch
> > > position,
> > > > > > > TX or
> > > > > > > > > RX, etc.
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"

> <n6wk@>
> > > > wrote:
> > > > > > > > > >
> > > > > > > > > > > Ok, Yes that is High. My 830 is only running 75 ma
> in tune
> > > > > > > position.
> > > > > > > > > > > Ok next question, What do R7 and R8 ohm out at
under the
> > > > finals
> > > > > > > > ? they
> > > > > > > > > > > should be 100 ohm 1/2 watt. Did you replace those as
> > well as
> > > > > > the 20
> > > > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > > > Also, as Clif mentioned, check the resistors R6
and R10
> > > in the
> > > > > > final
> > > > > > > > > > > section as they are the resistors for the Meter IP.
> > > > > > > > > > > Also, how is the bandswitch coupler inside the Final
> cage?
> > > > Is it
> > > > > > > > > > > broken? Cracked ?
> > > > > > > > > > > Can you take some voltage readings from the Final
> > > board for
> > > > > > > us? If
> > > > > > > > > > > so, What is the voltage on the SG terminal, then on
> > the DRV
> > > > > > terminal
> > > > > > > > > > > also the FG terminal.
> > > > > > > > > >
> > > > > > > > > > > Gordon
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > <kj558@>
> > > > > > > > > > > wrote:
> > > > > > > > > >
> > > > > > > > > > > Gordon - The idle bias is now up around 150 mA. I
> > had it
> > > > > > > adjusted to
> > > > > > > > > > > 60mA before I started having problems. I
> > re-adjusted it
> > > > > > down to
> > > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > >
> > > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > >
> > > > > > > > > > > Ip in TUNE mode reads 130mA

> > > > > > > > > > >
> > > > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection
within
> > > > the ALC
> > > > > > > > bracket
> > > > > > > > > > > > with the carrier control at approximately 9
o'clock
> > > > position.
> > > > > > > > > > >
> > > > > > > > > > > > The replacement tubes are Sylvania brand 6146B's.
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > > Kevin
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > >
> > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Gordon"
> > > <n6wk@>
> > > > > wrote:
> > > > > > > > > > > >
> > > > > > > > > > > > > Kevin,
> > > > > > > > > > > > > What does your ip meter show for idle bias
in USB
> > > > when you
> > > > > > > > key the
> > > > > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC
and the
> > > plate
> > > > > > > current
> > > > > > > > > > > > > read in Tune mode? What does your plate voltage
> > > show? You
> > > > > > > might want
> > > > > > > > > > > > > to hook up a transformer saver while you
figure this
> > > out.
> > > > > > > There is
> > > > > > > > > > > > > directions on building one in the Files
section by
> > Walt
> > > > > > N9WB.
> > > > > > > > > > > > > What brand and number tubes did you install? The
> > > chinese
> > > > > > > 6146's are
> > > > > > > > > > > > > known to Short/Flash so they are not a good
choice.
> > > > > > > > > > > >
> > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > ---
> > > > > > > > > > > >

> > > > > > > > > > > > >
> > > > > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com, "Kevin
> Hunter"
> > > > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > Gordon - You are correct. I do mean plate
> current.
> > > > > > > > Thanks for
> > > > > > > > > > > > > > > > clearing that up. I was thinking of my SB-1000
> > > > > amp and
> > > > > > > > > > > refering to
> > > > > > > > > > > > > > > > grid current.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Gordon"
> > > > > <n6wk@>
> > > > > > > > > wrote:
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > > > > > > > What do you mean " I keyed the radio and the
> Grid
> > > > > > > current went
> > > > > > > > > > > off the
> > > > > > > > > > > > > > > > > scale" ? Are you referring to Plate
Current ?
> > > > > > > > > > > > > > > > > How are you measuring Grid current while
> > Keying the
> > > > > > rig ?
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Just Curious and trying to get more info to
> > help you
> > > > > > out.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > > > N6WK
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> "Kevin
> > > > > Hunter"
> > > > > > > > > > <kj558@>
> > > > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I've done some research on this forum
before

> > > > > making this
> > > > > > > > > > post and
> > > > > > > > > > > > > > > > didn't run across a similar situation. I
> hope
> > > > > I've not
> > > > > > > > > > overlooked
> > > > > > > > > > > > > > > > something that has been addressed before.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I recently purchased this 830 so I don't
> > know the
> > > > > > > history on
> > > > > > > > > > it...
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I used it on the air and everything seemed
> to be
> > > > > working
> > > > > > > > > > fine and
> > > > > > > > > > > > > > > > within specifications. An internal
inspection
> > > > > revealed
> > > > > > > > > > someone had
> > > > > > > > > > > > > > > > done the "super size" cathode resistor
> mod. I
> > > > > > > ordered the
> > > > > > > > > > > > > > > > appropriate resistors and replaced them to
> avoid
> > > > > future
> > > > > > > > > > problems.
> > > > > > > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > I noticed the tubes were of different
> > manufacture,
> > > > > so I
> > > > > > > > > > figured they
> > > > > > > > > > > > > > > > were not a matched set. I went through the
> > > > > > > procedure and
> > > > > > > > > > neutralized
> > > > > > > > > > > > > > > > the tubes in the event it had not been
done.
> > > > > > > Adjustment was
> > > > > > > > > > required.
> > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > After neutralization, I checked the
output and
> > > > > dipped the
> > > > > > > > > > plate
> > > > > > > > > > > > > > > > current. Everything appeared within
spec and
> > > > > working
> > > > > > > > > > normally.

> > > >

> > > > > > > hybrid
> > > > > > > > > > > > > > rig. I'm
> > > > > > > > > > > > > > > > > > not experienced at troubleshooting
tube type
> > gear.
> > > > > I'd
> > > > > > > > > > > welcome any
> > > > > > > > > > > > > > > > > > theories or suggestions anyone cares
to offer.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Assuming I get this problem hashed out,
> > we'll move
> > > > > > on to
> > > > > > > > > > > > another, less
> > > > > > > > > > > > > > > > catastrophic, problem with the rig...
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Prior to the problem with the
excessive grid
> > > current
> > > > > > > > > occurring I
> > > > > > > > > > > > > > > > > noticed there was no TX and weak RX
when the
> > band
> > > > > > switch
> > > > > > > > > > was in
> > > > > > > > > > > > > > > the 28
> > > > > > > > > > > > > > > > > MHz position, regardless of the position
> of the
> > > > > .5 MHz
> > > > > > > > > button.
> > > > > > > > > > > > > > Proper
> > > > > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >

>
>
>
>
>
>

--
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.407 / Virus Database: 268.12.12/462 - Release Date:
10/3/06
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.11/496 - Release Date: 10/24/06

[Non-text portions of this message have been removed]

10624. 510 schematics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 12:41:27 UTC
From: digs4ruff
Topic: 10607 Message: 10624

Gordon
Got me again
regards
Barry

--- In TS-520_820_530_830@...m, "Gordon" <n6wk@...> wrote:
>
> Hi Barry,
> Look again. The TS-510_sch file has BOTH halves of the schematic
in
> one file. Unless I'm missing something somewhere.
>
> Gordon

10625. Re: Zorched Circuit Boards

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 12:56:48 UTC
From: Ellen R
Topic: 10582 Message: 10625

If you can find a circuit board overlay, try FAR circuits http://www.farcircuits.net/ They make a fair amount of custom circuit boards.

Many QRPers use them to make up circuit baords for projects. So does the ARRL. I think they may even build up a board from scratch for you, if you only provide a schematic. Naturally I think they charge extra for doing that.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I found some circuit board diagrams with parts layout in some of the service Manuals and the operations manuals. The transverter books have them, and the 520 manual has them. If your looking for a place to get your negatives there's a good start. there are outfits out there that will make a board for you. you stuff the board obviously. find out who ARRL uses for thier projects.
>
> John Harp <ka3dpw@...> wrote: I don't know of one. To copy a board would take some time. You could try Kenwood Corporation, I just emailed there again not to long ago for my transverter. I wouldn't hold my breath waiting, but it's a shot in the dark. I'm working the transverter project right now. That's got my time at the moment. That and leaves.
>
> Max Harelik <mharelik@...> wrote: From time to time, I see issues/problems discussed that focus on
> deteriorated/damaged/burned circuit boards. For example, two that affect
> Kenwood hybrid radio owners often are the RF Power Amplifier board and
> the Power Supply board. Generally, the solution is refurbishing existing
> runs and solder connections, but sometimes requiring patching in wires
> to replace runs that are beyond recovery.
>
> My question is this: Does there exist anywhere a library of radio
> circuit board masks, such that a graphic of the board mask could be
> downloaded and used (perhaps through some of the circuit board
> fabricators discussed in earlier messages) to create a new replacement

> board?
>
> There are obviously copywrite and patent issues that potentially
apply.
> But, in the case of thirty-year-old radios such as the hybrids,
this is
> not likely to be a problem. And, there are examples of board
> replacement (usually in the form of modification kits) in today's
radio
> market. The one that comes immediately to mind is Harbach's
Heathkit
> SB-200 Power Supply board (and components), which I built and
installed
> in my own amplifier.
>
> I see potential for such a library, particularly for those of us
that
> like to work with older radio equipment of whatever
brand/manufacture.
> So, does anyone know of such a service/library? Anybody interested?
>
> 73,
> Max, K5OVW
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
30+ countries) for 2¢/min or less.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>

10626. Re: 510 schematics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 13:26:26 UTC
From: digs4ruff
Topic: 10607 Message: 10626

Gordon
Re these schematics. in the centre of the schematic is L4. Is this a part of the transformer or is It a separate coil that I can't find.
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> Gordon
> Got me again
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Hi Barry,
> > Look again. The TS-510_sch file has BOTH halves of the schematic
> in
> > one file. Unless I'm missing something somewhere.
> >
> > Gordon
>

10627. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 14:09:01 UTC
From: Jim Wilson
Topic: 9760 Message: 10627

Could you explain this?

Thanks,

Jim
At 03:52 AM 10/26/2006, you wrote:

>If you are turning the load control counterclockwise to back it
>down, you are degrading the final linearity.
>
>Vy 73, Walt N9WB

10628. Re: Zorched Circuit Boards

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 14:13:48 UTC
From: w5rkl
Topic: 10582 Message: 10628

I would not recommend reproducing a single Kenwood PC board without the express written permission from Kenwood. Even having received written permission, I would have the written permission document reviewed by a Patent and/or copywrite attorney first before reproducing any Kenwood PC board. I have written to another ham manufacture that no longer is in the ham equipment business to do this very thing. As of yet, If I'm successful, I'll use ExpressPCB to make the PC boards. I've used them in the past and their quality is excellent.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@...m, "Ellen R" <ellenjoanne2003@...> wrote:
>
> If you can find a circuit board overlay, try FAR circuits
> http://www.farcircuits.net/ They make a fair amount of custom circuit
> boards.
>
> Many QRPers use them to make up circuit baords for projects. So does
> the ARRL. I think they may even build up a board from scratch for
> you, if you only provide a schematic. Naturally I think they charge
> extra for doing that.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > I found some circuit board diagrams with parts layout in some of
> the service Manuals and the operations manuals. The transverter
> books have them, and the 520 manual has them. If your looking for a
> place to get your negatives there's a good start. there are outfits
> out there that will make a board for you. you stuff the board
> obviously. find out who ARRL uses for thier projects.
> >
> > John Harp <ka3dpw@> wrote: I don't know of one. To copy
> a board would take some time. You could try Kenwood Corporation, I
> just emailed there again not to long ago for my transverter. I
> wouldn't hold my breath waiting, but it's a shot in the dark. I'm
> working the transverter project right now. That's got my time at the
> moment. That and leaves.
> >

> > Max Harelik <mharelik@> wrote: From time to time, I see
> issues/problems discussed that focus on
> > deteriorated/damaged/burned circuit boards. For example, two that
> affect
> > Kenwood hybrid radio owners often are the RF Power Amplifier board
> and
> > the Power Supply board. Generally, the solution is refurbishing
> existing
> > runs and solder connections, but sometimes requiring patching in
> wires
> > to replace runs that are beyond recovery.
> >
> > My question is this: Does there exist anywhere a library of radio
> > circuit board masks, such that a graphic of the board mask could be
> > downloaded and used (perhaps through some of the circuit board
> > fabricators discussed in earlier messages) to create a new
> replacement
> > board?
> >
> > There are obviously copywrite and patent issues that potentially
> apply.
> > But, in the case of thirty-year-old radios such as the hybrids,
> this is
> > not likely to be a problem. And, there are examples of board
> > replacement (usually in the form of modification kits) in today's
> radio
> > market. The one that comes immediately to mind is Harbach's
> Heathkit
> > SB-200 Power Supply board (and components), which I built and
> installed
> > in my own amplifier.
> >
> > I see potential for such a library, particularly for those of us
> that
> > like to work with older radio equipment of whatever
> brand/manufacture.
> > So, does anyone know of such a service/library? Anybody interested?
> >
> > 73,
> > Max, K5OVW
> >
> >
> > ---------------------------------
> > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2¢/min or less.
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >

> >
> >
> >
> > ---------------------------------
> > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> >
> > [Non-text portions of this message have been removed]
> >
>

10629. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 16:58:57 UTC
From: w5rkl
Topic: 9760 Message: 10629

I believe this thread is about PA current not PA GRID current. There is a huge difference. Any 6146B final tube(s) with a GRID current of 260ma will be instantly destroyed.

The grid and plate specifications for the 6146B tube depends on the class of service. Typical single 6146B tube operating plate voltage, again depending on the class of service, is between 600 and 750 vdc. A single 6146B tube typical operating plate current, also depending on class of service, is 25/125ma in Class AB1, 140ma in Class CP and 160ma in class CT. Single 6146B tube typical operating grid current is, 2.7ma in Class CT and 3.4ma in Class CP. The tube specifications provided here were obtained from page 24.29 of the ARRL Handbook 2001 issue.

You can computer the DC input power by performing the following. This procedure should be carried out QUICKLY to prevent damage to the final tubes:

1. Connect the 830 to a dummy load.
2. Tune up the 830 as outlined in the operators manual for CW mode.
3. Place the 830 in CW, meter switch in IP and key the 830.
4. Note the meter reading and quickly switch the meter to HV position and note the reading. You should this step by unkeying each time.
5. Unkey the 830.

Again, it's important that you perform the above steps QUICKLY to prevent damage to the final tubes in the 830.

Using ohms law, multiply the HV reading by the IP reading and your answer will be the 830's DC input power in watts.

An example, if the final plate voltage reading (HV position) is 800 and the IP reading (IP position) is 260, using ohms law, P = I x E, the DC input power is 800 x .260 = 208 watts input.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> Kenwood recommends a maximum resonant plate current for the TS-830 of
> 260ma or less. This is outlined on page 18 of the operators manual.
>
>

> 73's
>
> Mike
> W5RKL
>
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ron Hauser" <eichmann@>
> wrote:
> >
> > Hey Kevin, on the plate current, I have essentially the same 260ma
after
> > several iterations of plate dip and load peak on 40m, with about
> 110w out on
> > my 830. So I think your rig is just fine. If I recall the manual
> says no
> > higher than 265ma, and I routinely "unload" by a few milliamps. I
don't
> > think that there is any downside to backing down the load control to
> run a
> > few milliamps lower. I believe that is actually good practice to
> preserve
> > tube life.
> >
> > 73
> > --Ron
> > KC0TLN
> >
> > -----Original Message-----
> > From: TS-520_820_530_830@yahoogroups.com
> > [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Kevin Hunter
> > Sent: Tuesday, October 24, 2006 4:57 PM
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
> >
> > Good afternoon everyone. I figured I should post an update to let
> > everyone know how this project has been going.
> >
> > Walt - I apologize for not replying to your previous post. I just
> > overlooked it until I sat down to write this reply.
> >
> > I have the rig on the air and just made a contact on 40 meters with
> > it. It is certainly usable now. Audio and signal reports were
> > favorable with nothing objectionable noted. I have a couple of
> > questions that I will pose to the group in a moment.
> >
> > Here is all that comes to mind about what I did to try to get this rig
> > operational again. I thoroughly checked all of the components on the
> > rectifier board as one person suggested. I found nearly all of the

> > carbon comp resistors on that board were out of specification. Most
> > were probably within range of what would be expected given their age.
> > I found one of the 470K resistors was completely out of range. I
> > wish I was able to tell everyone exactly which one it was. As I said
> > before, nearly all of them were outside of the stated tolerance.
> > After finding that, I just started removing them from the board and
> > throwing them in a pile. I had decided to replace all of the
> > resistors on the board. Once I had them all in a pile, I began
> > checking them again. That is when I found one that checked way high.
> > Again, I don't know which position it came from. I can only say
> > that the markings indicated it was one that should have been 470K.
> >
> > I found that the cathode resistors I had previously replaced were up
> > around 30 ohms now. I replaced those again.
> >
> > Several of the .047 ceramic disk caps on the final board looked as if
> > the edges were eroding away. I'm not sure if that was from physical
> > wear from me having the board in and out so much or from an
> > electrical problem. They did not appear to have been overheated and
> > were not shorted. In any event, I replaced all of them that appeared
> > suspect.
> >
> > I also began to wonder if my "new" tubes may, in an unlikely
> > coincidence, be bad. I swapped them out with another old set that I
> > had (not the same set that were installed when this problem first
> > occurred).
> >
> > I checked final output relay and found the contacts on one side were
> > pitted. Each side exhibited some resistance. I cleaned the
> > contacts and resolved that problem.
> >
> > That's all that I can think of right now in the way of changing
things.
> >
> > I realize that the way I went about this makes it difficult to isolate
> > exactly what the problem was, but I was getting a little frustrated
> > with this rig and about ready to stick it on the shelf.
> >
> > I fired it up and things seemed to check out reasonably well. I
> > neutralized the tubes and gave things a final check.
> >
> > This leads me to my only remaining issue with regard to the
> > transmitter section...
> >
> > When tuning the transmitter, I find that the plate current is up
> > around 260mA after dipping it, if I have the load control set for
> > maximum RF out (about 115 watts). If I reduce the load control so
> > that the RF is about 100 watts, the plate current is about 240mA.
> >
> > I think that is still a shade higher than what it should be. I was

> > looking for something down near 225mA. My understanding of the
> > tuning proceedure is that I should increase the load control to the
> > point of maximum RF while periodically dipping the plate current
> > during the process.
> >
> > Is 260mA unacceptable? If so, is there any harm in reducing the load
> > control to bring the plate current down some.
> >
> > I should mention that I obtained all of these figures on 40 meters.
> > I have not tried loading it on other bands yet.
> >
> > Thanks to everyone who offered assistance to me on this project. I
> > appreciate your time and effort. I may not have everything
> > completely fixed, but at least the rig is usable now.
> >
> > The issue with no TX and weak RX on the 28Mhz position still exists,
> > and after looking at things while spending so much time with this rig,
> > I think that is the result of a botched 11 meter mod. I may wrestle
> > with that at a later time.
> >
> > What are your thoughts on the level of plate current? In the mean
> > time, I'll check it on other bands and see what I come up with.
> >
> > Kevin
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> > >
> > > Kevin:
> > > Just to humor me, please turn the rig off. Let it discharge. With
> > your ohm meter measure the resistance from pin 1 on either final tube
> > socket to ground. Pin 1 is where the 20 ohm resistors go. Do not
> > remove the tubes or resistors when doing this. Please let me know what
> > the resistance it.
> > >
> > > Vy 73, Walt N9WB
> > >
> > > ----- Original Message -----
> > > From: Kevin Hunter
> > > To: TS-520_820_530_830@yahoogroups.com
> > > Sent: Wednesday, October 04, 2006 9:11 AM
> > > Subject: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current
> > >
> > >
> > > Gordon - No low voltage type problems when the xformer saver is
> > not in
> > > line. I will begin checking the components on that rectifier
board.
> > > I have not done that so far. Thanks for the guidance. I'll keep
> > > you posted.
> > >

> > > Kevin
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > > >
> > > > Thanks for the info Kevin,
> > > > With the Transformer saver in line, I would expect you to
> experience
> > > > the effects of Low Voltage on Transmit because of the
> resistance in
> > > > the light bulb to the circuit. The rig is Not seeing full
Voltage
> > > > under Load.
> > > > If you remove the Transformer saver, do you experience the same
> > > effects ?
> > > > I am studing the circuit and think we might want to start
> looking at
> > > > the Rf Unit. Have you checked all the Components on the
Rectifier
> > > > board ?? They are all important to everything eles down the
line .
> > > > Those parts seem to fail Often !
> > > > Gordon
> > > >
> > > >
> > > >
> > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
<kj558@>
> > > > wrote:
> > > > >
> > > > > Gordon - I am able to back the CARRIER control down enough to
> > get the
> > > > > plate current under control. I have to turn it way down
> though. I
> > > > > found that if there is any ALC deflection, the plate current
> > becomes
> > > > > excessive. I backed the ALC down enough to keep the plate
> current
> > > > > at 250mA. I also had to keep the LOAD cap fully meshed. The
> output
> > > > > was about 60 watts. At 350mA grid current, the output was 110
> > watts.
> > > > >
> > > > > R2 thru R5 are definitely 20 ohms. I had to replace them
> > because the
> > > > > other ones were destroyed. R6 checked 2.719k.
> > > > >
> > > > > The light bulb does not glow very bright during TX in the TUNE
> > > > > position, but the rig seems to be suffering effects of low
> > voltage.
> > > > > I notice the PLL appears to lose lock if I increase the

carrier
> > > > > control very much.
> > > > >
> > > > > I checked the line fuse and found someone had a 4 amp fuse in
> > there.
> > > > > I was glad to see that. It has never blown, so I feel none of
> > > > > this incient has stressed the transformer very much.
> > > > >
> > > > > I'm not sure how much it would solve, but I would feel
> better if I
> > > > > could find whatever it was that I heard arc.
> > > > >
> > > > > Thanks for your help on this so far. I was off work today,
> but go
> > > > > back tomorrow, so I'll have to put this project on hold for a
> > couple
> > > > > of days.
> > > > >
> > > > > Kevin
> > > > >
> > > > >
> > > > >
> > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@>
> wrote:
> > > > > >
> > > > > > Hmmm,
> > > > > > Very Interesting. I checked the 830 I have here and here is
> > what I
> > > > > > read. The SG in receive is 235 in USB and the FG is -92 USB
> > in RX
> > > > > > In Transmit Mode I read SG = 220 LSB TX and 110 In Tune
RX and
> > > 85 in
> > > > > > tune Xmit. The FG is -48 in LSB TX and -50 in Tune TX.
> > > > > > Your Voltages appear higher across the Board.
> > > > > > Let me study the schematic some more and get back to you.
> > > > > > Perhaps some of the other Guys on here have some Ideas also.
> > I am
> > > > > > puzzled on this. If you back the Carrier control off, can
> > you get
> > > > > > the plate current to stop pegging or does the rig appear to
> > take off
> > > > > > on its own ?? I am starting to wonder If clif was on to
> > something in
> > > > > > the Meter circuit, although you stated that R6 and r10
> > checked OK.
> > > > > > Does your light bulb (in the Transformer saver) Glow Really
> > > bright in
> > > > > > Tune Position during transmit ?? R2, R3, R4, and R5 all
> > checked ok

> > > > > > for sure ?? All at 20 ohms ? R6 was definately at 2.7 k ? I
> > > am not
> > > > > > doubting you, just double checking.
> > > > > >
> > > > > > Gordon
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin Hunter"
> > <kj558@>
> > > > > > wrote:
> > > > > > >
> > > > > > > Gordon - I did build the transformer saver.
> > > > > > >
> > > > > > > Here are the voltages...
> > > > > > >
> > > > > > > SG= 252V in LSB TX, 139V in TUNE position on RX, 104V in
> TUNE
> > > > position
> > > > > > > on TX.
> > > > > > >
> > > > > > > FG= -64V in LSB or TUNE Position during TX
> > > > > > >
> > > > > > > DRV= 0.520VAC LSB during TX and .700VAC TUNE during TX
> > > > > > >
> > > > > > > As for actual output. I can't answer that. Since the plate
> > > > current
> > > > > > > goes off scale when I key it in CW mode, I've never
left it
> > > > keyed more
> > > > > > > than about half a second.
> > > > > > >
> > > > > > > ALC appears to be within spec in the TUNE position.
> > > > > > >
> > > > > > > Kevin
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > <n6wk@> wrote:
> > > > > > > >
> > > > > > > > Hi Keith,
> > > > > > > > Ok, Those voltages look OK in receive. Just what I would
> > > > expect to
> > > > > > > > see in a normal working 830.
> > > > > > > > Did you build the Transformer saver?
> > > > > > > > The reason I ask is that I want you to take some
> > measurements
> > > > > > while in

> > > > > > > > Transmit mode Very quickly, But I don't want you to burn
> > > > > anything up.
> > > > > > > > > I also forgot, Do you get ALC readings in tune? I
> think you
> > > > said Yes
> > > > > > > > > before. Next question, what kind of Ouput do you get
when
> > > it's all
> > > > > > > > > tuned up?
> > > > > > > > >
> > > > > > > > > Gordon
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin
Hunter"
> > > <kj558@>
> > > > > > > > > wrote:
> > > > > > > > >
> > > > > > > > > SG = 267V
> > > > > > > > > FG = -104V
> > > > > > > > > DRV = I was able to see a very low level AC voltage,
> about
> > > > > > 200mV. It
> > > > > > > > > appeared to be unaffected by meshing the drive
> capacitor.
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Gordon"
> > <n6wk@>
> > > > wrote:
> > > > > > > > > >
> > > > > > > > > Kevin, ,
> > > > > > > > > lets start on any band in receive. I just want to
> > get some
> > > > > > base line
> > > > > > > > > figures. I would suggest doing it with the heaters
> on.
> > > Adfter
> > > > > > you
> > > > > > > > > get those, we can evaluate them and go from there.
> > > > > > > > > Also, BE VERY CAREFUL, there are lethal Voltages in
> > > there as I
> > > > > > am sure
> > > > > > > > > you are aware, even when just receiving. Always
> keep one
> > > hand
> > > > > > behind
> > > > > > > > > you.
> > > > > > > > >
> > > > > > > > > Gordon
> > > > > > > > >
> > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com, "Kevin

> > Hunter"
> > > > > <kj558@>
> > > > > > > > > > wrote:
> > > > > > > > > > > >
> > > > > > > > > > > > Gordon - I did replace R7 and R8 at the same
> time as I
> > > > > > > replaced the
> > > > > > > > > > > > others. I checked them out of circuit and they are
> > > > still 100
> > > > > > > ohms.
> > > > > > > > > > > > No signs of heating or cracking.
> > > > > > > > > > > >
> > > > > > > > > > > > I am familiar with the problem of the cracked
shaft
> > > couplers
> > > > > > > on the
> > > > > > > > > > > > bandswitch. These don't show any signs of
> cracking. I
> > > > > assume
> > > > > > > > > > > > someone must have replaced them somewhere along
> > the way.
> > > > > > > > > > > >
> > > > > > > > > > > > I will check R6 and R10.
> > > > > > > > > > > >
> > > > > > > > > > > > You might give me some guidance on checking those
> > voltages
> > > > > > on the
> > > > > > > > > > > > final board. I don't have any problem making the
> > > > > > measurement, but
> > > > > > > > > > > > tell me what condition the transmitter should
be in
> > > when I'm
> > > > > > taking
> > > > > > > > > > > > the reading. I'm refering to things like mode
switch
> > > > position,
> > > > > > > > > > TX or
> > > > > > > > > > > > RX, etc.
> > > > > > > > > > > >
> > > > > > > > > > > >
> > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Gordon"
> > > <n6wk@>
> > > > > > wrote:
> > > > > > > > > > > >
> > > > > > > > > > > > Ok, Yes that is High. My 830 is only running
75 ma
> > > in tune
> > > > > > position.
> > > > > > > > > > > > Ok next question, What do R7 and R8 ohm out at

> > under the
> > > > > > finals
> > > > > > > > > > ? they
> > > > > > > > > > > > > > should be 100 ohm 1/2 watt. Did you replace
> those as
> > > > well as
> > > > > > > > the 20
> > > > > > > > > > > > > > ohm 1/2 watt resistors ?
> > > > > > > > > > > > > > Also, as Clif mentioned, check the resistors R6
> > and R10
> > > > > in the
> > > > > > > > final
> > > > > > > > > > > > > > section as they are the resistors for the
> Meter IP.
> > > > > > > > > > > > > > Also, how is the bandswitch coupler inside the
> Final
> > > cage?
> > > > > > Is it
> > > > > > > > > > > > > > broken? Cracked ?
> > > > > > > > > > > > > > Can you take some voltage readings from the
Final
> > > > > board for
> > > > > > > > > > us? If
> > > > > > > > > > > > > > so, What is the voltage on the SG terminal,
> then on
> > > > the DRV
> > > > > > > > terminal
> > > > > > > > > > > > > > also the FG terminal.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
"Kevin
> > > Hunter"
> > > > > > > > <kj558@>
> > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > Gordon - The idle bias is now up around 150
> mA. I
> > > > had it
> > > > > > > > > > adjusted to
> > > > > > > > > > > > > > 60mA before I started having problems. I
> > > > re-adjusted it
> > > > > > > > down to
> > > > > > > > > > > > > > 60mA. Plate current still off scale.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > Plate voltage is about 925 volts without load.
> > > > > > > > > > > > > > >
> > > > > > > > > > > > > > Ip in TUNE mode reads 130mA

> > > > > > > > > > > > > >
> > > > > > > > > > > > > > > ALC in TUNE mode reads about 2/3rds deflection
> > within
> > > > > > the ALC
> > > > > > > > > > > bracket
> > > > > > > > > > > > > > with the carrier control at approximately 9
> > o'clock
> > > > > > position.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > The replacement tubes are Sylvania brand
> 6146B's.
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Kevin
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> > "Gordon"
> > > > > > <n6wk@>
> > > > > > > > wrote:
> > > > > > > > > > > > > >
> > > > > > > > > > > > > > Kevin,
> > > > > > > > > > > > > > What does your ip meter show for idle bias
> > in USB
> > > > > > when you
> > > > > > > > > > > > key the
> > > > > > > > > > > > > > mike ? Is it set to 60ma ? What does the ALC
> > and the
> > > > > > plate
> > > > > > > > > > > current
> > > > > > > > > > > > > > read in Tune mode? What does your plate
> voltage
> > > > > > show? You
> > > > > > > > > > > might want
> > > > > > > > > > > > > > to hook up a transformer saver while you
> > figure this
> > > > > > out.
> > > > > > > > > > > There is
> > > > > > > > > > > > > > directions on building one in the Files
> > section by
> > > > > Walt
> > > > > > > > > > N9WB.
> > > > > > > > > > > > > > What brand and number tubes did you
> install? The
> > > > > > chinese
> > > > > > > > > > > 6146's are
> > > > > > > > > > > > > > known to Short/Flash so they are not a good
> > choice.
> > > > > > > > > > > > > >

> > > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > > > ---
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > In TS-520_820_530_830@yahoogroups.com,
"Kevin
> > > Hunter"
> > > > > > > <kj558@>
> > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Gordon - You are correct. I do mean plate
> > > current.
> > > > > > > > > Thanks for
> > > > > > > > > > > > > > > > > clearing that up. I was thinking of my
> SB-1000
> > > > > > amp and
> > > > > > > > > > > > > > refering to
> > > > > > > > > > > > > > > > > > grid current.
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > --- In TS-520_820_530_830@yahoogroups.com,
> > > "Gordon"
> > > > > > > <n6wk@>
> > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > > Hi Kevin,
> > > > > > > > > > > > > > > > > > > What do you mean " I keyed the radio
> and the
> > > Grid
> > > > > > > > > current went
> > > > > > > > > > > > > > > > > off the
> > > > > > > > > > > > > > > > > > > scale" ? Are you referring to Plate
> > Current ?
> > > > > > > > > > > > > > > > > > How are you measuring Grid current while
> > > > > Keying the
> > > > > > > > > rig ?
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Just Curious and trying to get more
> info to
> > > > > help you
> > > > > > > > > out.
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > Gordon
> > > > > > > > > > > > > > > > > > N6WK
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > --- In

TS-520_820_530_830@yahoogroups.com,
> > > "Kevin
> > > > > > > Hunter"
> > > > > > > > > > > <kj558@>
> > > > > > > > > > > > > > > > wrote:
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I've done some research on this forum
> > before
> > > > > > > making this
> > > > > > > > > > > > post and
> > > > > > > > > > > > > > > > > didn't run across a similar
situation. I
> > > hope
> > > > > > > I've not
> > > > > > > > > > > > > overlooked
> > > > > > > > > > > > > > > > > something that has been addressed
> before.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I recently purchased this 830 so I
don't
> > > > know the
> > > > > > > > > history on
> > > > > > > > > > > > it...
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I used it on the air and everything
> seemed
> > > to be
> > > > > > > working
> > > > > > > > > > > > fine and
> > > > > > > > > > > > > > > > > within specifications. An internal
> > inspection
> > > > > > > revealed
> > > > > > > > > > > > > someone had
> > > > > > > > > > > > > > > > > done the "super size" cathode resistor
> > > mod. I
> > > > > > > > > ordered the
> > > > > > > > > > > > > > > > > appropriate resistors and replaced
> them to
> > > avoid
> > > > > > > future
> > > > > > > > > > > > > problems.
> > > > > > > > > > > > > > > > > Rig still working FB after install.
> > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > I noticed the tubes were of different
> > > > manufacture,
> > > > > > > so I
> > > > > > > > > > > > > figured they
> > > > > > > > > > > > > > > > > were not a matched set. I went
> through the
> > > > > > > > procedure and

> > > > > > > > > > > > > > > neutralized
> the tubes in the event it had not been
> > done.
> > > > > > > > > > Adjustment was
> > > > > > > > > > > > > > > > required.
> > > > > > > > > > > > > > > > > > > >
> After neutralization, I checked the
> > output and
> > > > > > > > dipped the
> > > > > > > > > > > > plate
> current. Everything appeared within
> > spec and
> > > > > > working
> > > > > > > > > > > normally.
> > > > > > > > > > > > > > > > > > > >
> I walked away from the bench and made
> > it about
> > > > > > three
> > > > > > > > > > steps
> > > > > > > > > > > > > > > > when I
> heard an arc. I was hoping it didn't
> come
> > > > > > from the
> > > > > > > > > > 830,
> > > > > > > > > > > > > > > but knew
> that it probably did.
> > > > > > > > > > > > > > > > > > > >
> I went back and keyed the radio. The
> grid
> > > > > > current
> > > > > > > > > > went off
> > > > > > > > > > > > > > > > scale. I
> looked and found my newly installed
> > cathode
> > > > > > > > resistors were
> > > > > > > > > > > > > > > blown.
> > > > > > > > > > > > > > > > > > > >
> I assumed a tube had shorted. I
> > checked the
> > > > > > > > tubes with
> > > > > > > > > > > > > > an ohm
> > > > > > > > > > > > > > > > > > > meter
> and didn't find any shorts.
> > > > > > > > > > > > > > > > > > > >
> I ordered a new set of tubes and new
> > > resistors.
> > > > > > > > They
> > > > > > > > > > > > > > arrived
> > > > > > > > > > > > > > > > > > > today
> and I installed them.

> > > >

> > > > > > > > > > > > > > > Proper
> > > > > > > > > > > > > > > > > > operation on all other postitions.
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > > Kevin Hunter - KA0I
> > > > > > > > > > > > > > > > > > > Holts Summit, MO
> > > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > >
> > > > > > > > > > > > > > > > > > >
>

10630. RE: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 17:34:31 UTC
From: Darwin, Keith
Topic: 9760 Message: 10630

Why the rush? If you're driving a dummy load and have the finals tuned, then you should be able to go key-down for more than the time needed to take the IP and HV readings without rushing, right? Am I missing something here?

- Keith -

-----Original Message-----

You can computer the DC input power by performing the following. This procedure should be carried out QUICKLY to prevent damage to the final tubes:

1. Connect the 830 to a dummy load.
2. Tune up the 830 as outlined in the operators manual for CW mode.
3. Place the 830 in CW, meter switch in IP and key the 830.
4. Note the meter reading and quickly switch the meter to HV position and note the reading. You should this step by unkeying each time.
5. Unkey the 830.

Again, it's important that you perform the above steps QUICKLY to prevent damage to the final tubes in the 830.

Using ohms law, multiply the HV reading by the IP reading and your answer will be the 830's DC input power in watts.

An example, if the final plate voltage reading (HV position) is 800 and the IP reading (IP position) is 260, using ohms law, P = I x E, the DC input power is 800 x .260 = 208 watts input.

10631. Re: Zorched Circuit Boards

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 17:53:52 UTC
From: Ellen R
Topic: 10582 Message: 10631

Good point. I hadn't considered that.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> I would not recommend reproducing a single Kenwood PC board without
> the express written permission from Kenwood. Even having received
> written permission, I would have the written permission document
> reviewed by a Patent and/or copywrite attorney first before
> reproducing any Kenwood PC board. I have written to another ham
> manufacture that no longer is in the ham equipment business to do
this
> very thing. As of yet, If I'm successful, I'll use ExpressPCB to
make
> the PC boards. I've used them in the past and their quality is
excellent.
>
> 73's,
>
> Mike
> W5RKL
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@> wrote:
> >
> > If you can find a circuit board overlay, try FAR circuits
> > http://www.farcircuits.net/ They make a fair amount of custom
circuit
> > boards.
> >
> > Many QRPers use them to make up circuit baords for projects. So
does
> > the ARRL. I think they may even build up a board from scratch
for
> > you, if you only provide a schematic. Naturally I think they
charge
> > extra for doing that.
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>

> > wrote:
> > >
> > > I found some circuit board diagrams with parts layout in some
of
> > the service Manuals and the operations manuals. The transverter
> > books have them, and the 520 manual has them. If your looking for
a
> > place to get your negatives there's a good start. there are
outfits
> > out there that will make a board for you. you stuff the board
> > obviously. find out who ARRL uses for thier projects.
> > >
> > > John Harp <ka3dpw@> wrote: I don't know of one. To
copy
> > a board would take some time. You could try Kenwood Corporation,
I
> > just emailed there again not to long ago for my transverter. I
> > wouldn't hold my breath waiting, but it's a shot in the dark. I'm
> > working the transverter project right now. That's got my time at
the
> > moment. That and leaves.
> > >
> > > Max Harelik <mharelik@> wrote: From time to time, I see
> > issues/problems discussed that focus on
> > > deteriorated/damaged/burned circuit boards. For example, two
that
> > affect
> > > Kenwood hybrid radio owners often are the RF Power Amplifier
board
> > and
> > > the Power Supply board. Generally, the solution is refurbishing
> > existing
> > > runs and solder connections, but sometimes requiring patching
in
> > wires
> > > to replace runs that are beyond recovery.
> > >
> > > My question is this: Does there exist anywhere a library of
radio
> > > circuit board masks, such that a graphic of the board mask
could be
> > > downloaded and used (perhaps through some of the circuit board
> > > fabricators discussed in earlier messages) to create a new
> > replacement
> > > board?
> > >
> > > There are obviously copywrite and patent issues that
potentially
> > apply.
> > > But, in the case of thirty-year-old radios such as the hybrids,

> > this is
> > > not likely to be a problem. And, there are examples of board
> > > replacement (usually in the form of modification kits) in
today's
> > radio
> > > market. The one that comes immediately to mind is Harbach's
> > Heathkit
> > > SB-200 Power Supply board (and components), which I built and
> > installed
> > > in my own amplifier.
> > >
> > > I see potential for such a library, particularly for those of
us
> > that
> > > like to work with older radio equipment of whatever
> > brand/manufacture.
> > > So, does anyone know of such a service/library? Anybody
interested?
> > >
> > > 73,
> > > Max, K5OVW
> > >
> > >
> > > ---------------------------------
> > > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US
(and
> > 30+ countries) for 2¢/min or less.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

10632. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 18:08:29 UTC
From: nospamvictim
Topic: 9760 Message: 10632

Follow the Operators Manual.

All Class AB radios that utilize a Pi network output circuit have critical tuning. Tune and Load controls are tuned for maximum power output with spec drive level. If you are to err at all, err on the side of greater load because detuning and/or unloading results in a flood of harmonic and intermodulation distortion. If you wish to reduce the dissipation for QRP, Teletype, Data, reduce the drive after a proper full power tune-up.

Pa Idling current need not be greater than 50 ma. (Some say 25ma.) and never more than 60ma. If this is varying by a great amount as the radio warms up, perhaps you have soft tubes.

If plate current dips and maximum power output IP are more than a few MA different, you may need to neutralize.

I have run Teletype for years on the original 6146b's. Only a couple seconds of keydown at a time during tune-up will keep from stressing your tubes and keep you from nailing the power supply fuse.

I replaced the Driver tube once after a newbie got to it at field day.

Follow the Operators Manual.

--- In TS-520_820_530_830@yahoogroups.com, Jim Wilson <w5mhl@...> wrote:
>
>
> Could you explain this?
>
> Thanks,
>
> Jim
> At 03:52 AM 10/26/2006, you wrote:
>
> >If you are turning the load control counterclockwise to back it
> >down, you are degrading the final linearity.
> >
> >Vy 73, Walt N9WB
>

10633. Re: [TS-520_820_530_830] Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-26 23:32:01 UTC
From: John Harp
Topic: 10607 Message: 10633

Hi Gordon, I didn't know about the webpage you had. That's really nice. I logged in too. The QSO card is beautiful. it reminds me of the coast when I lived out in Oregon.

Gordon <n6wk@...> wrote: Hi Joe,
It is 470 ohm 1 Watt Metal Film. Did you find that it is bad
causing your loss of SG ? I know I have found many many instances
where a radio's problem was due to a faulty component on the Rectifier
Board. It is the FIRST place I go when checking out a rig.
By the way, when BAMA is busy, go to my site for manuals
www.n6wk.com/kenwood FREE downloads to all.
I just added a bunch of TS-510 Files and more
73,
Gordon

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@...> wrote:
>
> BAMA is busy. Can someone check your 830S service manual and let me
know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The
one that is in there now is about halfway in size between the two.
>
> Thanks,
> Joe k7mks
>
> [Non-text portions of this message have been removed]
>

Get your own web address for just $1.99/1st yr. We'll help. Yahoo! Small Business.

[Non-text portions of this message have been removed]

10634. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 00:05:48 UTC
From: Bill Scurlock
Topic: 9760 Message: 10634

Hi Keith.

The general recommendation for any tube type final (or amplifier) is to never key-on and tune for more than 5 seconds at a time, and then wait at least another 5 seconds or more before keying the radio and tuning again. The reason is heat damage to the final tubes which will affect their life. The less key-down time you use in tune-up, the longer the tubes will last.

Another point just made by "nospamvictim" is that the idling current does not need to be at 60ma on these Kenwood hybrids. One of the guys who repairs Kenwoods told me a year or so ago that 50ma was plenty, and that the tubes would last longer that way. All my TS Kenwoods are set for 50ma and seem to work fine. I think this just moves the "operating point" on the tubes a small amount, but I have never looked at the tube curves to see what the theoretical impact might be. Perhaps someone in the group can elaborate on that point.

73, Bill, K5GCW
----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 26, 2006 12:34 PM
Subject: RE: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Why the rush? If you're driving a dummy load and have the finals tuned, then you should be able to go key-down for more than the time needed to take the IP and HV readings without rushing, right? Am I missing something here?

- Keith -

-----Original Message-----

You can computer the DC input power by performing the following. This procedure should be carried out QUICKLY to prevent damage to the final tubes:

1. Connect the 830 to a dummy load.
2. Tune up the 830 as outlined in the operators manual for CW mode.
3. Place the 830 in CW, meter switch in IP and key the 830.
4. Note the meter reading and quickly switch the meter to HV position and note the reading. You should this step by unkeying each time.
5. Unkey the 830.

Again, it's important that you perform the above steps QUICKLY to prevent damage to the final tubes in the 830.

Using ohms law, multiply the HV reading by the IP reading and your answer will be the 830's DC input power in watts.

An example, if the final plate voltage reading (HV position) is 800 and the IP reading (IP position) is 260, using ohms law, P = I x E, the DC input power is 800 x .260 = 208 watts input.

[Non-text portions of this message have been removed]

10635. Please delete my photos

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 02:51:04 UTC
From: ve3tmt
Topic: 10635 Message: 10635

Also please delete my photo folder. I will do a new one.

Thanks,

Max

10636. Please delete my old profile

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 02:49:15 UTC
From: ve3tmt
Topic: 10636 Message: 10636

Hi guys, please remove my old Yahoo ID - max_ve3tmt - from the members list. I am now just "ve3tmt"

Thanks,

Max

10637. Re: Please delete my photos

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 03:38:31 UTC
From: Gordon
Topic: 10635 Message: 10637

Done

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> Also please delete my photo folder. I will do a new one.
>
> Thanks,
>
> Max
>

10638. Re: [TS-520_820_530_830] Please delete my old profile

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 03:49:39 UTC
From: N6WK
Topic: 10636 Message: 10638

Max, I just looked for it, But it seems to be gone!

Gordon

ve3tmt wrote:

> Hi guys, please remove my old Yahoo ID - max_ve3tmt - from the members
> list. I am now just "ve3tmt"
>
> Thanks,
>
> Max
>
>

[Non-text portions of this message have been removed]

10639. Re: [TS-520_820_530_830] Re: 510 schematics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 03:56:09 UTC
From: N6WK
Topic: 10607 Message: 10639

Barry,
The Transformer is T1, I am not able to find the L4 you are referring to.
Which Board is it on ? ie UC ????

Gordon

digs4ruff wrote:

> Gordon
> Re these schematics. in the centre of the schematic is L4. Is this a
> part of the transformer or is It a separate coil that I can't find.
> thanks
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "digs4ruff"
> <digs4ruff@...> wrote:
> >
> > Gordon
> > Got me again
> > regards
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > Hi Barry,
> > > Look again. The TS-510_sch file has BOTH halves of the
> schematic
> > in
> > > one file. Unless I'm missing something somewhere.
> > >
> > > Gordon
> >
>
>

[Non-text portions of this message have been removed]

10640. Re: 830S Rectifier Unit R-11

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 04:00:46 UTC
From: Gordon
Topic: 10607 Message: 10640

Thanks John,
Kind words and Nice of you to stop by.

Gordon
N6WK
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Hi Gordon, I didn't know about the webpage you had. That's really
nice. I logged in too. The QSO card is beautiful. it reminds me of the
coast when I lived out in Oregon.
>
> Gordon <n6wk@...> wrote: Hi Joe,
> It is 470 ohm 1 Watt Metal Film. Did you find that it is bad
> causing your loss of SG ? I know I have found many many instances
> where a radio's problem was due to a faulty component on the Rectifier
> Board. It is the FIRST place I go when checking out a rig.
> By the way, when BAMA is busy, go to my site for manuals
> www.n6wk.com/kenwood FREE downloads to all.
> I just added a bunch of TS-510 Files and more
> 73,
> Gordon
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "jsloss" <k7mks@> wrote:
> >
> > BAMA is busy. Can someone check your 830S service manual and let me
> know whether R-11 (470 ohms) in the Rectifier Board is 1/2 or 1W. The
> one that is in there now is about halfway in size between the two.
> >
> > Thanks,
> > Joe k7mks
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Get your own web address for just $1.99/1st yr. We'll help. Yahoo!
Small Business.
>

> [Non-text portions of this message have been removed]
>

10641. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 07:23:02 UTC
From: Peter A Markavage
Topic: 9760 Message: 10641

Not always true for tube finals. Depends on the class of operation and circuit design. Sweep tube design rigs and amplifiers definitely fall into that category because of the upper limit that they operate. My tube final pair of 6146's in my Heathkit Apache can keyed down for long, long periods of time running in the AM mode. My Kenwood 599D Twins, operating in the AM mode with a pair of 6146B's, can also key down for long periods of time. However, any rig that's just designed primarily for SSB/CW service, should adhere to a short key down time which is the case for the rigs in our group.

Pete, wa2cwa

On Thu, 26 Oct 2006 19:05:48 -0500 "Bill Scurlock" <k5gcw@...>
writes:
> Hi Keith.
>
> The general recommendation for any tube type final (or amplifier) is
> to never key-on and tune for more than 5 seconds at a time, and then
> wait at least another 5 seconds or more before keying the radio and
> tuning again. The reason is heat damage to the final tubes which
> will affect their life. The less key-down time you use in tune-up,
> the longer the tubes will last.
>
>
> 73, Bill, K5GCW

10642. Re: 510 schematics

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 11:44:17 UTC
From: digs4ruff
Topic: 10607 Message: 10642

Gordon
Sorry about that. It is dead centre on the PS-510 schematic. It is labelled L3 4H 300ma. There is a straight line drawn parallel to the coils. Does this line indicate that it is part of the main transformer.
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Barry,
> The Transformer is T1, I am not able to find the L4 you are referring to.
> Which Board is it on ? ie UC ????
>
> Gordon
>
> digs4ruff wrote:
>
> > Gordon
> > Re these schematics. in the centre of the schematic is L4. Is this a
> > part of the transformer or is It a separate coil that I can't find.
> > thanks
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "digs4ruff"
> > <digs4ruff@> wrote:
> > >
> > > Gordon
> > > Got me again
> > > regards
> > > Barry
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > > >
> > > > Hi Barry,
> > > > Look again. The TS-510_sch file has BOTH halves of the
> > schematic
> > > in
> > > > one file. Unless I'm missing something somewhere.

> > > >
> > > > Gordon
> > >
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10643. PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 12:14:39 UTC
From: digs4ruff
Topic: 10643 Message: 10643

Re: 510 schematics

Gordon
Sorry about that. It is dead centre on the PS-510 schematic. It is labelled L3 4H 300ma. There is a straight line drawn parallel to the coils. Does this line indicate that it is part of the main transformer.
thanks
Barry

Now I see what is happening. To post you can't just hit reply and change the subject line. If you wish to change the subject you have to use Start Topic. Sign of age I guess. Today marks the passing of another year.
regards
Barry

10644. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 13:26:18 UTC
From: Bill Scurlock
Topic: 9760 Message: 10644

Hi Pete.

Thanks for the clarification. I was not thinking AM operation when I made my comments. Goodness knows, my old Heathkit DX-100 used to be keyed-on for some long "rag-chewing" back in the 1950's. I always appreciate your comments to the group Pete. Have a good day.

73, Bill, K5GCW
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 2:23 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Not always true for tube finals. Depends on the class of operation and
circuit design. Sweep tube design rigs and amplifiers definitely fall
into that category because of the upper limit that they operate. My tube
final pair of 6146's in my Heathkit Apache can keyed down for long, long
periods of time running in the AM mode. My Kenwood 599D Twins, operating
in the AM mode with a pair of 6146B's, can also key down for long periods
of time. However, any rig that's just designed primarily for SSB/CW
service, should adhere to a short key down time which is the case for the
rigs in our group.

Pete, wa2cwa

On Thu, 26 Oct 2006 19:05:48 -0500 "Bill Scurlock" <k5gcw@...>
writes:
> Hi Keith.
>
> The general recommendation for any tube type final (or amplifier) is
> to never key-on and tune for more than 5 seconds at a time, and then
> wait at least another 5 seconds or more before keying the radio and
> tuning again. The reason is heat damage to the final tubes which
> will affect their life. The less key-down time you use in tune-up,
> the longer the tubes will last.
>
>
> 73, Bill, K5GCW

[Non-text portions of this message have been removed]

10645. (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 13:27:45 UTC
From: Jody Mills
Topic: 10645 Message: 10645

I have a non-working 520-s that I was originally going to send to Ken Kemski to have refurbished, but I'm having second thoughts. It's not anything to do with Mr. Kemski, as it's a no-brainer that he could do a much better job (and quicker) fixing and refurbishing my radio than I can. However, I actually want to LEARN about how to work on this old radio. Right now I have ZERO tech skills, but I'm willing to learn. And what better way to learn than on an old radio that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where the seller was up front about the radio not working. The seller said that they turned it on, heard a popping sound, saw a wisp of smoke come from the radio, and then it went dead, never to turn on again.

I would be interested to know if this sounds familiar to anyone here and what it likely means. I would also like to know what tools I will need for working on this radio and where I can likely get them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am officially a Technician class license holder, and my callsign is KE7JII. I will upgrade in a few months, but right now I'm just getting my feet wet with the local vhf community and looking forward to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

10646. Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 14:01:44 UTC
From: Chris HEmbree
Topic: 10645 Message: 10646

Hello Jody,
Well to start off with,get a good solder iron that will do a good clean job and a volt meter Try to locate the service manual and schematics. If you don't have a schematic you can download one. The guys will tell you how to get it. I don't know were to download it at this time because I had the service manual for my rig. Take the case off the radio and just take a good look at each board to see if
you see anything that does not look right. (Like black parts with a trace of smoke)
If the radio went dead with a pop or two it may be a power supply.
You can look at ken's web site K4EAA . The schematics may be on his site.
Chris..
Jody Mills <jody.mills@...> wrote: I have a non-working 520-s that I was originally going to send to
Ken Kemski to have refurbished, but I'm having second thoughts.
It's not anything to do with Mr. Kemski, as it's a no-brainer that
he could do a much better job (and quicker) fixing and refurbishing
my radio than I can. However, I actually want to LEARN about how to
work on this old radio. Right now I have ZERO tech skills, but I'm
willing to learn. And what better way to learn than on an old radio
that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where
the seller was up front about the radio not working. The seller
said that they turned it on, heard a popping sound, saw a wisp of
smoke come from the radio, and then it went dead, never to turn on
again.

I would be interested to know if this sounds familiar to anyone here
and what it likely means. I would also like to know what tools I
will need for working on this radio and where I can likely get
them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am
officially a Technician class license holder, and my callsign is
KE7JII. I will upgrade in a few months, but right now I'm just
getting my feet wet with the local vhf community and looking forward
to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

10647. RE: [TS-520_820_530_830] Congrats Jody on the new call.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 16:34:00 UTC
From: Darwin, Keith
Topic: 10645 Message: 10647

I assume this is your first license?

Congratulations! I'm waiting for a new call from the FCC but in my case it is a vanity call change. When it's done I'll still be a somewhat crusty, sort-of middle-aged fart with the same privileges I had before.

KE7JII - not a bad CW call. If you haven't started learning the code you may want to consider. The best reason to learn CW is because it is fun!

73!

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jody Mills
Sent: Friday, October 27, 2006 9:28 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

I have a non-working 520-s that I was originally going to send to Ken Kemski to have refurbished, but I'm having second thoughts.
It's not anything to do with Mr. Kemski, as it's a no-brainer that he could do a much better job (and quicker) fixing and refurbishing my radio than I can. However, I actually want to LEARN about how to work on this old radio. Right now I have ZERO tech skills, but I'm willing to learn. And what better way to learn than on an old radio that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where the seller was up front about the radio not working. The seller said that they turned it on, heard a popping sound, saw a wisp of smoke come from the radio, and then it went dead, never to turn on again.

I would be interested to know if this sounds familiar to anyone here and what it likely means. I would also like to know what tools I will need for working on this radio and where I can likely get them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am officially a Technician class license holder, and my callsign is KE7JII. I will upgrade in a few months, but right now I'm just getting my feet wet with the local vhf community and looking forward to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

Yahoo! Groups Links

10648. Re: (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 16:02:28 UTC
From: drewr3227
Topic: 10645 Message: 10648

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
<jody.mills@...> wrote:
>
> I have a non-working 520-s that I was originally going to send to
> Ken Kemski to have refurbished, but I'm having second thoughts.
> It's not anything to do with Mr. Kemski, as it's a no-brainer that
> he could do a much better job (and quicker) fixing and refurbishing
> my radio than I can. However, I actually want to LEARN about how
to
> work on this old radio. Right now I have ZERO tech skills, but I'm
> willing to learn. And what better way to learn than on an old
radio
> that already doesn't work. The worst thing I can do is--fix it.
>
> A little background: I got the radio off of an Ebay auction where
> the seller was up front about the radio not working. The seller
> said that they turned it on, heard a popping sound, saw a wisp of
> smoke come from the radio, and then it went dead, never to turn on
> again.
> Jodi,
Congratulations on your new ticket; ask lots of questions, the
experts on this group are awesome.
Drew
N8UXP

> I would be interested to know if this sounds familiar to anyone
here
> and what it likely means. I would also like to know what tools I
> will need for working on this radio and where I can likely get
> them. I do have a local Radio Shack where I live if that helps.
>
> By the way, the FCC issued my callsign yesterday, 10/26/06. I am
> officially a Technician class license holder, and my callsign is
> KE7JII. I will upgrade in a few months, but right now I'm just
> getting my feet wet with the local vhf community and looking
forward
> to tearing apart my old Kenwood.
>
> Thanks in advance for your help!
>
> Jody A(lan) Mills, KE7JII
>

10649. Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 16:38:24 UTC
From: Bill Scurlock
Topic: 10645 Message: 10649

Good Morning Jody.

Yes, there are a number of very qualified people on this reflector that willingly help each other solve problems with their radios - they have certainly helped me find some difficult problems.

The main things they need to know in order to effectively assist someone are how knowledgeable is the person, and what types of test equipment do they have.

You say you have "zero" technical skills. If this is actually true, one of the best things for you to do is get with a local group of hams who can coach you and show you some hands-on type of procedures such as soldering, reading schematics, and the use of different types of test equipment. Safety is a major concern when working on these types of hybrid radios that have lethal voltages inside, because they can really hurt you unless you are taught how to work with them safely. Some things you will be able to learn much more effectively when taught in person, rather than by email. You will also need to tell us where you are located since you are not listed on QRZ.com yet.

Please understand I am not trying to discourage you from repairing your TS-520S. All of us started out, at some point in our lives, exactly where you are today, and our interest in electronics gave us the desire to learn as much as we could about our areas of interest. I am sure there are members of this group who will try to assist you regardless of your level of technical abilities.

From your description of the radio's failure, the problem could be as simple as one of the final tubes shorting out internally and blowing some resistors up. But there are a number of things that could cause the symptoms you describe. Since you say nothing comes on now, the protective fuse on the input AC probably blew. However, you need to try and determine why the fuse blew before you replace it, turn the radio on again, and maybe cause more damage. There are some people on here who are very knowledgeable of the TS-520S who should be able to talk you through several things to check. I do not have any documentation on that radio myself.

I would encourage you to continue in the direction you have started Jody. If you come up with any questions I can handle, I'll jump in and try to help.

73, Bill, K5GCW

----- Original Message -----
From: Jody Mills
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 8:27 AM
Subject: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

I have a non-working 520-s that I was originally going to send to Ken Kemski to have refurbished, but I'm having second thoughts. It's not anything to do with Mr. Kemski, as it's a no-brainer that he could do a much better job (and quicker) fixing and refurbishing my radio than I can. However, I actually want to LEARN about how to work on this old radio. Right now I have ZERO tech skills, but I'm willing to learn. And what better way to learn than on an old radio that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where the seller was up front about the radio not working. The seller said that they turned it on, heard a popping sound, saw a wisp of smoke come from the radio, and then it went dead, never to turn on again.

I would be interested to know if this sounds familiar to anyone here and what it likely means. I would also like to know what tools I will need for working on this radio and where I can likely get them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am officially a Technician class license holder, and my callsign is KE7JII. I will upgrade in a few months, but right now I'm just getting my feet wet with the local vhf community and looking forward to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

[Non-text portions of this message have been removed]

10650. Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 17:28:20 UTC
From: Ruben
Topic: 10650 Message: 10650

For some reason I'm not receiving any group emails amymore?

10651. Keydown time - was Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 17:37:06 UTC
From: Ellen R
Topic: 9760 Message: 10651

Ummmmmm, I think both of you are partially right. I have my TS-820 (which of course uses 6146Bs), and a Swan 270B (which uses a 6LQ6 sweep tube for a final). Both rigs do require you to limit the amount of keydown time, until the finals are tuned my Kenwwod shouldn't be keyed up in the CW mode, for more than 10 seconds. My Swan manual states that the final shouldn't be loaded up for more than a few seconds, due to it's circuitry, which causes the plate dissipation to exceed the 6LQ6's plate dissipation capability when the final is out of resonance. This is also the case with the Kenwood, but unlike the 6LQ6, my 6146Bs won't necessarily get nuked, if I load them up up out of resonance for too long. I've been told that mods can be made to the the circuits Swan used (and in later radios, Swan made some of these mods themselves), to limit, the susceptability to finals destruction, if you key down too long, when you're out of tune.

When the finals on my Kenwood are tuned/resonated, I don't have to hold to the keydown limits mentioned above. Although, I don't think you want to key down for 5 or 10 mintutes straight, as the heat will start to stress out the tubes (in spite of the fan on the back of the rig). Swan recommended that my 270B, be lmited to no more than about 30 seconds keydown time, after the final is resonated. This is partially due to the 6lQ6 sweep tube's dissipation. It's also due to heat removal issues in my opinion (the 6LQ6 is mounted on its side, along the bottom of the 270B, where air current flow isn't the greatest [adding a fan will help this issue]).

All comments are welcome. I'm on vacation today, yeah!

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Not always true for tube finals. Depends on the class of operation and
> circuit design. Sweep tube design rigs and amplifiers definitely fall
> into that category because of the upper limit that they operate. My tube
> final pair of 6146's in my Heathkit Apache can keyed down for long, long
> periods of time running in the AM mode. My Kenwood 599D Twins, operating
> in the AM mode with a pair of 6146B's, can also key down for long

periods
> of time. However, any rig that's just designed primarily for SSB/CW
> service, should adhere to a short key down time which is the case
for the
> rigs in our group.
>
> Pete, wa2cwa
>
> On Thu, 26 Oct 2006 19:05:48 -0500 "Bill Scurlock" <k5gcw@...>
> writes:
> > Hi Keith.
> >
> > The general recommendation for any tube type final (or amplifier)
is
> > to never key-on and tune for more than 5 seconds at a time, and
then
> > wait at least another 5 seconds or more before keying the radio
and
> > tuning again. The reason is heat damage to the final tubes which
> > will affect their life. The less key-down time you use in tune-
up,
> > the longer the tubes will last.
> >
> >
> > 73, Bill, K5GCW
>

10652. Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 19:12:51 UTC
From: n9wb
Topic: 10645 Message: 10652

See Save Your Transformer! in the files section of this group. Make a light bulb tester.
Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 9:01 AM
Subject: Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Hello Jody,
Well to start off with,get a good solder iron that will do a good clean job and a volt meter Try to locate the service manual and schematics. If you don't have a schematic you can download one. The guys will tell you how to get it. I don't know were to download it at this time because I had the service manual for my rig. Take the case off the radio and just take a good look at each board to see if
you see anything that does not look right. (Like black parts with a trace of smoke)
If the radio went dead with a pop or two it may be a power supply.
You can look at ken's web site K4EAA . The schematics may be on his site.
Chris..
Jody Mills <jody.mills@...> wrote: I have a non-working 520-s that I was originally going to send to
Ken Kemski to have refurbished, but I'm having second thoughts.
It's not anything to do with Mr. Kemski, as it's a no-brainer that
he could do a much better job (and quicker) fixing and refurbishing
my radio than I can. However, I actually want to LEARN about how to
work on this old radio. Right now I have ZERO tech skills, but I'm
willing to learn. And what better way to learn than on an old radio
that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where
the seller was up front about the radio not working. The seller
said that they turned it on, heard a popping sound, saw a wisp of
smoke come from the radio, and then it went dead, never to turn on
again.

I would be interested to know if this sounds familiar to anyone here
and what it likely means. I would also like to know what tools I
will need for working on this radio and where I can likely get
them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am
officially a Technician class license holder, and my callsign is
KE7JII. I will upgrade in a few months, but right now I'm just
getting my feet wet with the local vhf community and looking forward
to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

Stay in the know. Pulse on the new Yahoo.com. Check it out.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

10653. Re: (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 18:21:22 UTC
From: Ellen R
Topic: 10645 Message: 10653

Congrats on the new license Jody! Way to go!

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
<jody.mills@...> wrote:
>
> I have a non-working 520-s that I was originally going to send to
> Ken Kemski to have refurbished, but I'm having second thoughts.
> It's not anything to do with Mr. Kemski, as it's a no-brainer that
> he could do a much better job (and quicker) fixing and refurbishing
> my radio than I can. However, I actually want to LEARN about how
to
> work on this old radio. Right now I have ZERO tech skills, but I'm
> willing to learn. And what better way to learn than on an old
radio
> that already doesn't work. The worst thing I can do is--fix it.
>
> A little background: I got the radio off of an Ebay auction where
> the seller was up front about the radio not working. The seller
> said that they turned it on, heard a popping sound, saw a wisp of
> smoke come from the radio, and then it went dead, never to turn on
> again.
>
> I would be interested to know if this sounds familiar to anyone
here
> and what it likely means. I would also like to know what tools I
> will need for working on this radio and where I can likely get
> them. I do have a local Radio Shack where I live if that helps.
>
> By the way, the FCC issued my callsign yesterday, 10/26/06. I am
> officially a Technician class license holder, and my callsign is
> KE7JII. I will upgrade in a few months, but right now I'm just
> getting my feet wet with the local vhf community and looking
forward
> to tearing apart my old Kenwood.
>
> Thanks in advance for your help!
>
> Jody A(lan) Mills, KE7JII
>

10654. Re: [TS-520_820_530_830] PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 18:11:41 UTC
From: N6WK
Topic: 10643 Message: 10654

Barry,
Happy Birthday.
I believe that you will find that L4 is a 4 Henry Choke rated at 300 ma.
It probably looks like a small transformer but will only have 2 leads.
I have NO idea where it would be located on your 510 though.

73,
Gordon

digs4ruff wrote:

> Re: 510 schematics
>
> Gordon
> Sorry about that. It is dead centre on the PS-510 schematic. It is
> labelled L3 4H 300ma. There is a straight line drawn parallel to the
> coils. Does this line indicate that it is part of the main
> transformer.
> thanks
> Barry
>
> Now I see what is happening. To post you can't just hit reply and
> change the subject line. If you wish to change the subject you have to
> use Start Topic. Sign of age I guess. Today marks the passing of
> another year.
> regards
> Barry
>
>

[Non-text portions of this message have been removed]

10655. RE: [TS-520_820_530_830] Keydown time - was Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 18:19:24 UTC
From: Darwin, Keith
Topic: 9760 Message: 10655

-----Original Message-----
From: Ellen R

When the finals on my Kenwood are tuned/resonated, I don't have to hold to the keydown limits mentioned above. Although, I don't think you want to key down for 5 or 10 mintutes straight, as the heat will start to stress out the tubes (in spite of the fan on the back of the rig).

That's more of the sort of thing I'd expect. Key down times should be very short if the finals aren't tuned, but can be longer if they are tuned. If the rig can't take 10 seconds of key-down when tuned, how can you do a 4 minute rag chew transmission?

- Keith -

10656. Re: Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 18:29:10 UTC
From: Ellen R
Topic: 10650 Message: 10656

Hi Reuben,

Do you mean no e-mails at all from the group, or do you mean no e-mails in a digest format (in other words the e-mail contains mulitplemessages from the group's Yahoo board)? If it's the latter, I took a look at your profile, and it's listed for you to receive indivual e-mails. You aren't blocked, or anything like that.

Ellen - AF9J
Kenwood TS 520_820_530_830 moderator

--- In TS-520_820_530_830@yahoogroups.com, "Ruben" <ka2hhb_2000@...> wrote:
>
> For some reason I'm not receiving any group emails amymore?
>

10657. Re: Congrats Jody on the new call.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 18:19:53 UTC
From: Ellen R
Topic: 10645 Message: 10657

Hi Keith,

What call did you put in for? My call is a vanity call too. I held my original WD9 2x3 call until late 1998 (4 1/2 years after I got my Extra), but I got sick of being asked for repeats on my call for the last 2 letters, during contests. Being a QRP contester, I had read that going to a shorter call can help things. I tried getting a 2x1 WD9 call (I like that prefix of course), but perusing qrz.com, showed that they were all taken. So I figured I'd get one with a weird prefix (which would also make it more desirable in the WPX). I also wanted one with decent CW, and phone phonetics (remember Keith, I work CW, phone, and the digital modes). Perusing qrz. com again showed that AF9J, was not only unused, but indicated that it had never been used. That did it for me. I paid the $50 fee (geez!, what a ripoff!, nowadays it's less than half of that), and got my present call.

Believe it or not 3 years later, I found out that back in 1976 (when the FCC was issuing bicentennial 2x1 A-prefix calls), some oldtimer had held my call. In 2001, I received a QSL card, from an SWLer, who had heard me during a contest. He not only informed me that my call had been held by somebody else before me, he sent me a photocopy of the QSL card he'd received from this guy, back in 1977! Go figure! BTW Keith, at renewal time, you have to pay the feds $22 to keep your vanity call, otherwise, they give you another call out of the sequential list.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:
>
> I assume this is your first license?
>
> Congratulations! I'm waiting for a new call from the FCC but in my
case
> it is a vanity call change. When it's done I'll still be a somewhat
> crusty, sort-of middle-aged fart with the same privileges I had
before.
>
> KE7JII - not a bad CW call. If you haven't started learning the
code
> you may want to consider. The best reason to learn CW is because
it is
> fun!

>
> 73!
>
> - Keith KD1E -
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jody Mills
> Sent: Friday, October 27, 2006 9:28 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should
get
> for fixing up non-working 520-s?
>
> I have a non-working 520-s that I was originally going to send to
Ken
> Kemski to have refurbished, but I'm having second thoughts.
> It's not anything to do with Mr. Kemski, as it's a no-brainer that
he
> could do a much better job (and quicker) fixing and refurbishing my
> radio than I can. However, I actually want to LEARN about how to
work
> on this old radio. Right now I have ZERO tech skills, but I'm
willing
> to learn. And what better way to learn than on an old radio that
> already doesn't work. The worst thing I can do is--fix it.
>
> A little background: I got the radio off of an Ebay auction where
the
> seller was up front about the radio not working. The seller said
that
> they turned it on, heard a popping sound, saw a wisp of smoke come
from
> the radio, and then it went dead, never to turn on again.
>
> I would be interested to know if this sounds familiar to anyone
here and
> what it likely means. I would also like to know what tools I will
need
> for working on this radio and where I can likely get them. I do
have a
> local Radio Shack where I live if that helps.
>
> By the way, the FCC issued my callsign yesterday, 10/26/06. I am
> officially a Technician class license holder, and my callsign is
KE7JII.
> I will upgrade in a few months, but right now I'm just getting my
feet
> wet with the local vhf community and looking forward to tearing
apart my

> old Kenwood.
>
> Thanks in advance for your help!
>
> Jody A(lan) Mills, KE7JII
>
>
>
>
>
> Yahoo! Groups Links
>

10658. Re: [TS-520_820_530_830] Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 19:38:34 UTC
From: n9wb
Topic: 10650 Message: 10658

Ruben:
I checked your membership and your still set up for individual e-mails. If you are still having problems this evening, tell us and I will check again in the morning.
Vy 73, Walt N9WB

----- Original Message -----
From: Ruben
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 12:28 PM
Subject: [TS-520_820_530_830] Don't know what happened?

For some reason I'm not receiving any group emails amymore?

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

10659. Re: [TS-520_820_530_830] Re: Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 19:00:47 UTC
From: Ruben Echevarria
Topic: 10650 Message: 10659

I didn't change a thing, but for some reason Yahoo said I was bouncing emails.. But I'm ok now.. Thanks

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 2:29:10 PM
Subject: [TS-520_820_530_830] Re: Don't know what happened?

Hi Reuben,

Do you mean no e-mails at all from the group, or do you mean no e-mails
in a digest format (in other words the e-mail contains mulitplemessages
from the group's Yahoo board)? If it's the latter, I took a look at
your profile, and it's listed for you to receive indivual e-mails. You
aren't blocked, or anything like that.

Ellen - AF9J
Kenwood TS 520_820_530_ 830 moderator

--- In TS-520_820_530_ 830@yahoogroups. com, "Ruben" <ka2hhb_2000@ ...>
wrote:
>
> For some reason I'm not receiving any group emails amymore?
>

[Non-text portions of this message have been removed]

10660. Re: [TS-520_820_530_830] PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 18:28:51 UTC
From: N6WK
Topic: 10643 Message: 10660

I mean L3.
Now you have me doing the Senior Moment thing.. hi hi..

Gordon

N6WK wrote:

> Barry,
> Happy Birthday.
> I believe that you will find that L4 is a 4 Henry Choke rated at 300 ma.
> It probably looks like a small transformer but will only have 2 leads.
> I have NO idea where it would be located on your 510 though.
>
> 73,
> Gordon
>
> digs4ruff wrote:
>
> > Re: 510 schematics
> > >
> > > Gordon
> > > Sorry about that. It is dead centre on the PS-510 schematic. It is
> > > labelled L3 4H 300ma. There is a straight line drawn parallel to the
> > > coils. Does this line indicate that it is part of the main
> > > transformer.
> > > thanks
> > > Barry
> > >
> > > Now I see what is happening. To post you can't just hit reply and
> > > change the subject line. If you wish to change the subject you have to
> > > use Start Topic. Sign of age I guess. Today marks the passing of
> > > another year.
> > > regards
> > > Barry
> > >
> > >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10661. RE: [TS-520_820_530_830] Vanity Calls (Re: Congrats Jody on the new call.)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 19:27:21 UTC
From: Darwin, Keith
Topic: 10645 Message: 10661

Hi Ellen (& all),

My current call, KD1E is a vanity call that I got several years ago. I wanted K1KD or maybe KE1TH, but both were taken. KD1E at least started with my initials and is short on CW. I've found it confuses people though. Ending in E is so light on CW that I often get "KD1E?" coming back at me. I wanted something a bit heavier, preferably a 1x2.

So, I decided to apply for W1AP which was about to become available. I paid the money to W5YI but they called and said too many other people are applying for W1AP; I'd never get it. Instead they had a list of calls that are still active, but whose owner has been SK for over 2 years. Said they'd send the SK proof to the FCC to get the call cancelled and at the same time apply for it in my name. Voila, a call suddenly becomes available and I'm the only one with an app.

The new call is ... N1AS. A 1x2, nice and short for CW, ends with enough weight to be heard through QRM / QRN, has a nice ring on phone. Yep, I'll be pretty happy. I like it better than W1AP.

Assuming W5YI knew what they were doing with the application and I get the call, I'll be one happy camper!

If not, I'll remain KD1E which isn't half bad!

- Keith KD1Efornowbutwithanylucki'llsoonbeN1AS -

P.s. Nice story about the history of your call. With calls being recycled, their history starts to become something of interest.

-----Original Message-----
From: Ellen R

Hi Keith,

What call did you put in for?

10662. Re: (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 19:57:43 UTC
From: w5rkl
Topic: 10645 Message: 10662

Afternoon Jody,

There are some initial checks you can do without applying power to or plugging the 520 into the wall outlet.

A few initial tools that you can accumulate are small wire cutters, needles nose pliers and those forecipts doctors use. The plastic ones are good for picking out nuts, washers and small screws that always fall into the tightest places regardless of how careful you are. Don't ya just hate that? The metal ones, available at ALL ELECTRONICS, are good for heat sinking components during soldering plus they hold components nicely.

Some other test equipment items are listed below. These items will more than likely not be needed right off, the list is just a basic list of test equipment, over time, you might need.

1. Good stable signal generator. I recommend the AN/URM-25D available at Fair Radio Sales. Vary wide range of frequencies covered plus it is very stable. If you buy one from Fair Radio, ask for a "checked" one. It takes a bit longer to get but it's worth the wait.

2. A couple of decent VTVMs. Heathkit has a couple of nice one which can be obtained for a few dollars. The IM-18, I believe, is a nice VTVM. It comes in 2 version, the upright and low rider version that has a handle that doubles as a tiling handle, both are very good and are inexpensive. Make sure you get the probes. If not, they can be made.

3. Something you may not need right away but later on, as you experience grows, a good dual trace oscilliscope. They are actually very easy to use and a good one for ham repairs can be obtained for $100 or less. I have an E&L INSTRUMENTS 20Mhz. Mostly you'll use this with frequency generating and IF circuits. The 520, 820, 530, 830 etc, have IF's in the 8 Mhz range so a 20Mhz dual trace scope is a good one to have.

4. Two nice analogue VTVMs. Why analogue? Digital volt meters are great but with very small variations, there's nothing like an anlogue VTVM. I say 2 becaues you never know when you will need another one, especially when doing IF alignments and monitoring the output of the audio amplifier. With only one, your stuck to switching from one circuit to another. VTVMs are inexpensive and can perform a number of troubleshooting tasks. Also, VTVMs have a very high input impedence and don't load down a circuit like a simply VOM does.

5. A digital volt meter. I have a very nice one that only cost $19 and it reads frequencies up to 20Khz and capacitances values. You don't need to spend a fortune on a DVM. Most of the time you'll be taking voltage readings. The DVM will work along side your analogue VTVMs.

6. A good soldering pencil with interchangable tips. Radio Shack sells a nice 20/40 watts pencil with interchangable tips for a very cheap price. The 20 watt range is for small, solid state projects. The 40 watt range for larger projects such as soldering so-239 etc. I discourage the use of a 40 watt pencil on small solid state circuit and PCBs. The additional heat can, if not careful, damage the component along with possibly lifting the PCB trace. I use a 20 watt pencil in all solid state work. When soldering, always use a heat sink clip. The clip absorbs heat, preventing or greatly reducing the heat that travels on the lead to the component. Prevents or helps to prevent damage to heat sensitive components such as transistors, some diodes etc.

7. A simply function generator. A function generator will come in handy when working on audio circuit. I bought a kit for $9, one single IC chip in a socket plus a few parts and it works from 1hz to 7Khz, well within the range basic repairs require and it runs on a 9 battery.

Parts:

Do you need alot of them? Heavens no. First, it's a waste of money and second, you more than likely will never use all of them. I keep a supply of resistors both 1/4 and 1/2 watt ranges. I do this because I do alot of repair work. As you gain experience and learn more, you too may think you need more parts.

I have given you some basic ideas. While you're building you tool base, download the manuals and review them. Another item I forgot to mention. A good technical reference manual is a good item to have. First thought is the ARRL handbook. Although the newer versions are great reference books, I rely alot more on the older version, 1951 and 1966, for example. Why? They have alot more basic information and are much easier to use. With them, you don't have to sift through engineering stuff to find the basics. The older handbooks were geared, in my opinion, towards troubleshooting and learning circuit operation. The newer version do have more solid state references so you're choice. The older handbooks are inexpensive and will provide you with a wealth of knowledge and basic circuit operation.

In closing, although electronics may appear, the operative word here is "appear" complex, don't let that confuse or stop you from learning. Ham radio is the only hobby that you can learn by doing and you learn everyday, whether you realise it or not. Also, ask questions. There are no stupid questions here. We all learn from each other and we all have something to give to one another. But, most of all, have fun Jody. That's what this group and ham radio is all about, having fun and learning.

73's,

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> See Save Your Transformer! in the files section of this group. Make
a light bulb tester. Walt N9WB
> ----- Original Message -----
> From: Chris HEmbree
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, October 27, 2006 9:01 AM
> Subject: Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I
should get for fixing up non-working 520-s?
>
>
> Hello Jody,
> Well to start off with,get a good solder iron that will do a good
clean job and a volt meter Try to locate the service manual and
schematics. If you don't have a schematic you can download one. The
guys will tell you how to get it. I don't know were to download it at
this time because I had the service manual for my rig. Take the case
off the radio and just take a good look at each board to see if
> you see anything that does not look right. (Like black parts with
a trace of smoke)
> If the radio went dead with a pop or two it may be a power supply.
> You can look at ken's web site K4EAA . The schematics may be on
his site.
> Chris..
> Jody Mills <jody.mills@...> wrote: I have a non-working 520-s that
I was originally going to send to
> Ken Kemski to have refurbished, but I'm having second thoughts.
> It's not anything to do with Mr. Kemski, as it's a no-brainer that
> he could do a much better job (and quicker) fixing and refurbishing
> my radio than I can. However, I actually want to LEARN about how to
> work on this old radio. Right now I have ZERO tech skills, but I'm
> willing to learn. And what better way to learn than on an old radio
> that already doesn't work. The worst thing I can do is--fix it.
>
> A little background: I got the radio off of an Ebay auction where
> the seller was up front about the radio not working. The seller
> said that they turned it on, heard a popping sound, saw a wisp of
> smoke come from the radio, and then it went dead, never to turn on
> again.
>
> I would be interested to know if this sounds familiar to anyone here
> and what it likely means. I would also like to know what tools I
> will need for working on this radio and where I can likely get
> them. I do have a local Radio Shack where I live if that helps.
>
> By the way, the FCC issued my callsign yesterday, 10/26/06. I am

> officially a Technician class license holder, and my callsign is
> KE7JII. I will upgrade in a few months, but right now I'm just
> getting my feet wet with the local vhf community and looking forward
> to tearing apart my old Kenwood.
>
> Thanks in advance for your help!
>
> Jody A(lan) Mills, KE7JII
>
>
>
>
>
>
> ---------------------------------
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date:
10/27/06
>
>
> [Non-text portions of this message have been removed]
>

10663. Re: PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-27 23:38:28 UTC
From: digs4ruff
Topic: 10643 Message: 10663

Gordon
You nailed it first try. It is picture seven in the VA7GEM folder.
http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/view/4cc6?b=7&m=s&o=2
I just didn't recognize it as a choke as it is the size of a power transformer.
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Barry,
> Happy Birthday.
> I believe that you will find that L4 is a 4 Henry Choke rated at 300 ma.
> It probably looks like a small transformer but will only have 2 leads.
> I have NO idea where it would be located on your 510 though.
>
> 73,
> Gordon
>
>
>
> digs4ruff wrote:
>
> > Re: 510 schematics
> >
> > Gordon
> > Sorry about that. It is dead centre on the PS-510 schematic. It is
> > labelled L3 4H 300ma. There is a straight line drawn parallel to the
> > coils. Does this line indicate that it is part of the main
> > transformer.
> > thanks
> > Barry
> >
> > Now I see what is happening. To post you can't just hit reply and
> > change the subject line. If you wish to change the subject you have to
> > use Start Topic. Sign of age I guess. Today marks the passing of
> > another year.
> > regards
> > Barry

> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10664. Re: [TS-520_820_530_830] Keydown time - was Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 00:07:57 UTC
From: Peter A Markavage
Topic: 9760 Message: 10664

I would suspect, using 6146's as an example, that as long as you don't exceed the plate dissipation rating of the tubes in a particular class of service, you can key down all day long. Many many AM/FM broadcast tube transmitters run key down (plate switch on; or whatever you want to call continuous operation) 24/7. However, the TS-5xx/8xx aren't designed for this type of service. Take the same 6146's, put them in a DX-100, Apache, or some other AM tube rig that uses them, and "key down" for many minutes is the norm. It's all in the design and how far to the edge do you position the tube parameters.

Pete, wa2cwa

On Fri, 27 Oct 2006 17:37:06 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Ummmmmm, I think both of you are partially right. I have my TS-820
> (which of course uses 6146Bs), and a Swan 270B (which uses a 6LQ6
> sweep tube for a final). Both rigs do require you to limit the
> amount of keydown time, until the finals are tuned my Kenwwod
> shouldn't be keyed up in the CW mode, for more than 10 seconds. My
>
> Swan manual states that the final shouldn't be loaded up for more
> than a few seconds, due to it's circuitry, which causes the plate
> dissipation to exceed the 6LQ6's plate dissipation capability when
> the final is out of resonance. This is also the case with the
> Kenwood, but unlike the 6LQ6, my 6146Bs won't necessarily get nuked,
>
> if I load them up up out of resonance for too long. I've been told
>
> that mods can be made to the the circuits Swan used (and in later
> radios, Swan made some of these mods themselves), to limit, the
> susceptability to finals destruction, if you key down too long, when
>
> you're out of tune.
>
> When the finals on my Kenwood are tuned/resonated, I don't have to
> hold to the keydown limits mentioned above. Although, I don't think
>
> you want to key down for 5 or 10 mintutes straight, as the heat will
>
> start to stress out the tubes (in spite of the fan on the back of
> the
> rig). Swan recommended that my 270B, be lmited to no more than
> about
> 30 seconds keydown time, after the final is resonated. This is

> partially due to the 6lQ6 sweep tube's dissipation. It's also due to
>
> heat removal issues in my opinion (the 6LQ6 is mounted on its side,
>
> along the bottom of the 270B, where air current flow isn't the
> greatest [adding a fan will help this issue]).
>
> All comments are welcome. I'm on vacation today, yeah!
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> .> wrote:
> >
> > Not always true for tube finals. Depends on the class of operation
>
> and
> > circuit design. Sweep tube design rigs and amplifiers definitely
> fall
> > into that category because of the upper limit that they operate.
> My
> tube
> > final pair of 6146's in my Heathkit Apache can keyed down for
> long,
> long
> > periods of time running in the AM mode. My Kenwood 599D Twins,
> operating
> > in the AM mode with a pair of 6146B's, can also key down for long
>
> periods
> > of time. However, any rig that's just designed primarily for
> SSB/CW
> > service, should adhere to a short key down time which is the case
>
> for the
> > rigs in our group.
> >
> > Pete, wa2cwa
> >
> > On Thu, 26 Oct 2006 19:05:48 -0500 "Bill Scurlock" <k5gcw@...>
> > writes:
> > > Hi Keith.
> > >
> > > The general recommendation for any tube type final (or
> amplifier)
> is
> > > to never key-on and tune for more than 5 seconds at a time, and
>
> then

> > > wait at least another 5 seconds or more before keying the radio
>
> and
> > > tuning again. The reason is heat damage to the final tubes
> which
> > > will affect their life. The less key-down time you use in
> tune-
> up,
> > > the longer the tubes will last.
> > >
> > >
> > > 73, Bill, K5GCW

10665. Re: PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 00:17:31 UTC
From: digs4ruff
Topic: 10643 Message: 10665

Every time I load the pics they come up in a different order.
It is the gold coloured one on the top of the chassis.
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> Gordon
> You nailed it first try. It is picture seven in the VA7GEM folder.
> http://ph.groups.yahoo.com/group/TS-
520_820_530_830/photos/view/4cc6?
> b=7&m=s&o=2
> I just didn't recognize it as a choke as it is the size of a power
> transformer.
> thanks
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@> wrote:
> >
> > Barry,
> > Happy Birthday.
> > I believe that you will find that L4 is a 4 Henry Choke rated
at
> 300 ma.
> > It probably looks like a small transformer but will only have 2
> leads.
> > I have NO idea where it would be located on your 510 though.
> >
> > 73,
> > Gordon
> >
> >
> >
> > digs4ruff wrote:
> >
> > > Re: 510 schematics
> > >
> > > Gordon
> > > Sorry about that. It is dead centre on the PS-510 schematic.
It
> is
> > > labelled L3 4H 300ma. There is a straight line drawn parallel
to
> the

> > > coils. Does this line indicate that it is part of the main
> > > transformer.
> > > thanks
> > > Barry
> > >
> > > Now I see what is happening. To post you can't just hit reply
and
> > > change the subject line. If you wish to change the subject you
> have to
> > > use Start Topic. Sign of age I guess. Today marks the passing
of
> > > another year.
> > > regards
> > > Barry
> > >
> > >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

10666. Re: [TS-520_820_530_830] Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 00:23:11 UTC
From: Ruben Echevarria
Topic: 10650 Message: 10666

Will do Walt...Thanks....Ruben

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Cc: Ruben Echevarria <ka2hhb_2000@...>
Sent: Friday, October 27, 2006 3:38:34 PM
Subject: Re: [TS-520_820_530_830] Don't know what happened?

Ruben:
I checked your membership and your still set up for individual e-mails. If you are still having problems this evening, tell us and I will check again in the morning.
Vy 73, Walt N9WB

----- Original Message -----
From: Ruben
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 27, 2006 12:28 PM
Subject: [TS-520_820_ 530_830] Don't know what happened?

For some reason I'm not receiving any group emails amymore?

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10667. Re: [TS-520_820_530_830] Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 00:37:30 UTC
From: John Harp
Topic: 10650 Message: 10667

I had the same problem. I was bouncing all my group stuff too. I could emeil James direct over the transverter stuff but the group was bouncing back one after the next for a few days, until I went in and reset the account. The good news about it was I updated mt adress yahoo had.

n9wb <n9wb@...> wrote: Ruben:
I checked your membership and your still set up for individual e-mails. If you are still having problems this evening, tell us and I will check again in the morning.
Vy 73, Walt N9WB

----- Original Message -----
From: Ruben
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 12:28 PM
Subject: [TS-520_820_530_830] Don't know what happened?

For some reason I'm not receiving any group emails amymore?

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

Low, Low, Low Rates! Check out Yahoo! Messenger's cheap PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10668. Re: [TS-520_820_530_830] Re: Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 00:58:19 UTC
From: John Harp
Topic: 10650 Message: 10668

Ellen

I could read emails but when I sent the ones for the group were bouncing back. I asked james what bouncing was and he explained it to me briefly. We were talking transverter direct and I could reach him.

I reset the account last nite. It went on for 2 or 3 days for me. I sent to you and Gordon and Walt and it kept comming back. It's working now.

James helped me thru the transverter cable problem thus far. I may have a viable cable wiring combination. I first must make sure why the transmitter wire passes back into the 520 before going to the TV-502. The 506 doesn't seem to do that. If I get that part cleared, I can begin the next step. building the cable.

I bought a DB-25 assembly kit to use the pins for the substitution connector. I am wondering if it would be better to use the DB-9 pins like on the back of a computer monitor being as they are a little smaller. This way I wouldn't widen the mates in the socket as easily.

I must find a way to secure the pins as a connector. James suggested something like RTV sealant to hold the pins fast. Iwas thinking maybe use a piece of circuit board betwenn the rows to hold the pins to. another idea I came up with is to move the whole assembly into a mold and pour some kind of liquid plastic in to make it a firm one piece connector. Then heat shrink a sleeve around the cable to the transverter connector.

Any suggestions?

Ellen R <ellenjoanne2003@...> wrote:
Hi Reuben,

Do you mean no e-mails at all from the group, or do you mean no e-mails
in a digest format (in other words the e-mail contains mulitplemessages
from the group's Yahoo board)? If it's the latter, I took a look at
your profile, and it's listed for you to receive indivual e-mails. You
aren't blocked, or anything like that.

Ellen - AF9J
Kenwood TS 520_820_530_830 moderator

--- In TS-520_820_530_830@yahoogroups.com, "Ruben" <ka2hhb_2000@...>
wrote:
>
> For some reason I'm not receiving any group emails amymore?
>

Check out the New Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10669. Re: [TS-520_820_530_830] Don't know what happened?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 01:06:25 UTC
From: John Harp
Topic: 10650 Message: 10669

Walt,

On the TS-520 the transverter cable passes a section of the cable back into the TS-520. Do you know the reason for this? I'm trying to determine if I can bypass to the transverter without a problem. It seems to be the transmit out to the transverter. 830 doesn't have this. I'm not sure if any of the other models do this. I have yet to look further into the schematics of 520 to find out and if it changed at 520S or 820 or even at 530. If it works ok with the bypass I can go ahead with the cable assembly. I'm going to build a conector for the transverter side since one is not readily available. I got a DB-25 kit to build a connector using the pins. Got any ideas?

Ruben Echevarria <ka2hhb_2000@...> wrote:
Will do Walt...Thanks....Ruben

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: n9wb <n9wb@...>
To: TS-520_820_530_830@yahoogroups.com
Cc: Ruben Echevarria <ka2hhb_2000@...>
Sent: Friday, October 27, 2006 3:38:34 PM
Subject: Re: [TS-520_820_530_830] Don't know what happened?

Ruben:
I checked your membership and your still set up for individual e-mails. If you are still having problems this evening, tell us and I will check again in the morning.
Vy 73, Walt N9WB

----- Original Message -----
From: Ruben
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Friday, October 27, 2006 12:28 PM
Subject: [TS-520_820_ 530_830] Don't know what happened?

For some reason I'm not receiving any group emails amymore?

------------ --------- --------- --------- --------- --------- -

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10670. Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 02:05:30 UTC
From: John Harp
Topic: 10645 Message: 10670

Congratulations on the tech liscence. Remember, when you get the 520 going you can work VHF 6 and 2 with transverters too.

As for the radio repair you may want to do what you can yourself first. You do have a group of knowledgeable people here to call upon for advice to deal with issues.

First I'd look around inside for obvious signs of where things went wrong. As you know you let the smoke out of some things they don't work any more. Such is probably the case here. Even if you don't know the parts thats ok. You see the signs sometimes where it happened.

Try not to touch the parts inside yourself as they may still have a charge on them. If you must touch something, try to ground it out to the chassis first. By touching the lead to the chassis, you may drain that part of the circuit of any power that could harm you.

If you should go ahead with your learning your radio as you have said, you will become intimately familiar with your radio. you will learn how to replacw tubes when the time comes and how to clean yourr radio. You will discover it's good sides and it's drawbacks. You have a good radio there in a TS-520. It's a good radio to start with.

Our other models the 520S and 820 and 530 and 830 are similar as you will discover in your reading. The group has a good and growing archive a good place to spend time and read. Any questions you can adress to the group. Word them well as they wil help you to get back a better answer. For them to understand what you are asking about you must be able to paint a clear picture in their minds.

A word to the wise. Many a person who works incircuits will usually work one handed on the radio. Some believe in putting thier other hand in a pocket. they may talk to themselves too, but that's alright. Some of the best tech's Ive seen do that.

What you can't do, there's always Ken. There's others too. You may meet them here.

Last, do you have the manual that came with the radio? Gordon has a web page with it as well as the archives. There's other places you can get copies from. BAMA is a place to look at. I just bought CD's of my radio. The transverters too.

You will be working in one of the last radios built a person can with a few tools work on themselves.

I'd suggest you replace the fuse if need be and keep the one blown for a while. Do not plug your radio in again until you know it's safe to.

Your problem could be a number of things. But don't power up again as you may waste the transformer out. They are few and far between for replacement and are not cheap usually. I got lucky and one was found within the group for about 30 dollars for one of my 830's. I found one website where the transformer was available for about a hundred dollars more. That's an example for the investment value. Some parts you can't buy new now.

So there's a little insight for you to look ahead with. Welcome to the group and congrats again on tech.

As new tools go a soldering tool is one and a meter. If you buy a multi meter buy a cheap one first and go fancy later. the cheapones a little more forgiving and when not it's cheaper to replace. Eventually somewhere down the road you may opt to get an oscilloscope, but that's well down the road. Some people don't have this and have not the need for one. Like I said that's probably later. You may find someone who has one to help you with tihs should the need arise.

An antenna dummy load will be an important tool too. You'l use this to load the power of your radio without damaging it. That's after you get it up and running.

Now back to you. John-KA3DPW- General
Jody Mills <jody.mills@...> wrote:
I have a non-working 520-s that I was originally going to send to
Ken Kemski to have refurbished, but I'm having second thoughts.
It's not anything to do with Mr. Kemski, as it's a no-brainer that
he could do a much better job (and quicker) fixing and refurbishing
my radio than I can. However, I actually want to LEARN about how to
work on this old radio. Right now I have ZERO tech skills, but I'm
willing to learn. And what better way to learn than on an old radio
that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where
the seller was up front about the radio not working. The seller
said that they turned it on, heard a popping sound, saw a wisp of
smoke come from the radio, and then it went dead, never to turn on
again.

I would be interested to know if this sounds familiar to anyone here
and what it likely means. I would also like to know what tools I
will need for working on this radio and where I can likely get
them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am
officially a Technician class license holder, and my callsign is
KE7JII. I will upgrade in a few months, but right now I'm just
getting my feet wet with the local vhf community and looking forward
to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10671. Re: [TS-520_820_530_830] Re: Congrats Jody on the new call.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 02:09:38 UTC
From: John Harp
Topic: 10645 Message: 10671

I find that interesting.

Ellen R <ellenjoanne2003@...> wrote: Hi Keith,

What call did you put in for? My call is a vanity call too. I held my original WD9 2x3 call until late 1998 (4 1/2 years after I got my Extra), but I got sick of being asked for repeats on my call for the last 2 letters, during contests. Being a QRP contester, I had read that going to a shorter call can help things. I tried getting a 2x1 WD9 call (I like that prefix of course), but perusing qrz.com, showed that they were all taken. So I figured I'd get one with a weird prefix (which would also make it more desirable in the WPX). I also wanted one with decent CW, and phone phonetics (remember Keith, I work CW, phone, and the digital modes). Perusing qrz. com again showed that AF9J, was not only unused, but indicated that it had never been used. That did it for me. I paid the $50 fee (geez!, what a ripoff!, nowadays it's less than half of that), and got my present call.

Believe it or not 3 years later, I found out that back in 1976 (when the FCC was issuing bicentennial 2x1 A-prefix calls), some oldtimer had held my call. In 2001, I received a QSL card, from an SWLer, who had heard me during a contest. He not only informed me that my call had been held by somebody else before me, he sent me a photocopy of the QSL card he'd received from this guy, back in 1977! Go figure! BTW Keith, at renewal time, you have to pay the feds $22 to keep your vanity call, otherwise, they give you another call out of the sequential list.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith" <keith.darwin@...> wrote:
>
> I assume this is your first license?
>
> Congratulations! I'm waiting for a new call from the FCC but in my case
> it is a vanity call change. When it's done I'll still be a somewhat
> crusty, sort-of middle-aged fart with the same privileges I had before.
>
> KE7JII - not a bad CW call. If you haven't started learning the code
> you may want to consider. The best reason to learn CW is because

it is
> fun!
>
> 73!
>
> - Keith KD1E -
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Jody Mills
> Sent: Friday, October 27, 2006 9:28 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should
get
> for fixing up non-working 520-s?
>
> I have a non-working 520-s that I was originally going to send to
Ken
> Kemski to have refurbished, but I'm having second thoughts.
> It's not anything to do with Mr. Kemski, as it's a no-brainer that
he
> could do a much better job (and quicker) fixing and refurbishing my
> radio than I can. However, I actually want to LEARN about how to
work
> on this old radio. Right now I have ZERO tech skills, but I'm
willing
> to learn. And what better way to learn than on an old radio that
> already doesn't work. The worst thing I can do is--fix it.
>
> A little background: I got the radio off of an Ebay auction where
the
> seller was up front about the radio not working. The seller said
that
> they turned it on, heard a popping sound, saw a wisp of smoke come
from
> the radio, and then it went dead, never to turn on again.
>
> I would be interested to know if this sounds familiar to anyone
here and
> what it likely means. I would also like to know what tools I will
need
> for working on this radio and where I can likely get them. I do
have a
> local Radio Shack where I live if that helps.
>
> By the way, the FCC issued my callsign yesterday, 10/26/06. I am
> officially a Technician class license holder, and my callsign is
KE7JII.
> I will upgrade in a few months, but right now I'm just getting my
feet

> wet with the local vhf community and looking forward to tearing
apart my
> old Kenwood.
>
> Thanks in advance for your help!
>
> Jody A(lan) Mills, KE7JII
>
>
>
>
>
> Yahoo! Groups Links
>

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10672. Keydown time - was Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 13:22:48 UTC
From: Ellen R
Topic: 9760 Message: 10672

Yeah circuitry has a lot to do with it Pete. I agree.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> I would suspect, using 6146's as an example, that as long as you
don't
> exceed the plate dissipation rating of the tubes in a particular
class of
> service, you can key down all day long. Many many AM/FM broadcast
tube
> transmitters run key down (plate switch on; or whatever you want to
call
> continuous operation) 24/7. However, the TS-5xx/8xx aren't designed
for
> this type of service. Take the same 6146's, put them in a DX-100,
Apache,
> or some other AM tube rig that uses them, and "key down" for many
minutes
> is the norm. It's all in the design and how far to the edge do you
> position the tube parameters.
>
> Pete, wa2cwa
>
> On Fri, 27 Oct 2006 17:37:06 -0000 "Ellen R"
> <ellenjoanne2003@...> writes:
> > Ummmmmm, I think both of you are partially right. I have my TS-
820
> > (which of course uses 6146Bs), and a Swan 270B (which uses a 6LQ6
> > sweep tube for a final). Both rigs do require you to limit the
> > amount of keydown time, until the finals are tuned my Kenwwod
> > shouldn't be keyed up in the CW mode, for more than 10 seconds.
My
> >
> > Swan manual states that the final shouldn't be loaded up for more
> > than a few seconds, due to it's circuitry, which causes the plate
> > dissipation to exceed the 6LQ6's plate dissipation capability
when
> > the final is out of resonance. This is also the case with the
> > Kenwood, but unlike the 6LQ6, my 6146Bs won't necessarily get
nuked,
> >
> > if I load them up up out of resonance for too long. I've been

told
> >
> > that mods can be made to the the circuits Swan used (and in later
> > radios, Swan made some of these mods themselves), to limit, the
> > susceptability to finals destruction, if you key down too long,
when
> >
> > you're out of tune.
> >
> > When the finals on my Kenwood are tuned/resonated, I don't have
to
> > hold to the keydown limits mentioned above. Although, I don't
think
> >
> > you want to key down for 5 or 10 mintutes straight, as the heat
will
> >
> > start to stress out the tubes (in spite of the fan on the back of
> > the
> > rig). Swan recommended that my 270B, be lmited to no more than
> > about
> > 30 seconds keydown time, after the final is resonated. This is
> > partially due to the 6lQ6 sweep tube's dissipation. It's also due
to
> >
> > heat removal issues in my opinion (the 6LQ6 is mounted on its
side,
> >
> > along the bottom of the 270B, where air current flow isn't the
> > greatest [adding a fan will help this issue]).
> >
> > All comments are welcome. I'm on vacation today, yeah!
> >
> > 73,
> > Ellen - AF9J
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
> > .> wrote:
> > >
> > > Not always true for tube finals. Depends on the class of
operation
> >
> > and
> > > circuit design. Sweep tube design rigs and amplifiers
definitely
> > fall
> > > into that category because of the upper limit that they
operate.
> > My
> > tube

> > > final pair of 6146's in my Heathkit Apache can keyed down for
> > long,
> > long
> > > periods of time running in the AM mode. My Kenwood 599D Twins,
> > operating
> > > in the AM mode with a pair of 6146B's, can also key down for
long
> >
> > periods
> > > of time. However, any rig that's just designed primarily for
> > SSB/CW
> > > service, should adhere to a short key down time which is the
case
> >
> > for the
> > > rigs in our group.
> > >
> > > Pete, wa2cwa
> > >
> > > On Thu, 26 Oct 2006 19:05:48 -0500 "Bill Scurlock" <k5gcw@>
> > > writes:
> > > > Hi Keith.
> > > >
> > > > The general recommendation for any tube type final (or
> > amplifier)
> > is
> > > > to never key-on and tune for more than 5 seconds at a time,
and
> >
> > then
> > > > wait at least another 5 seconds or more before keying the
radio
> >
> > and
> > > > tuning again. The reason is heat damage to the final tubes
> > which
> > > > will affect their life. The less key-down time you use in
> > tune-
> > up,
> > > > the longer the tubes will last.
> > > >
> > > >
> > > > 73, Bill, K5GCW
>

10673. Re: Don't know what happened? - TV502 cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 13:47:09 UTC
From: Ellen R
Topic: 10650 Message: 10673

Hi John,

I like the 2nd idea of using poured plastic. It will be mechanically sturdier. But you will need to make sure that the pins stay aligned during molding. Another thought might be to mount the pins in a cicuit board for spacing purposes, and rather than using plastic, use epoxy. It'll be cheaper than plastic you can work with at home, you won't have to deal with the heat issues plastic will give you during molding, and will be far stronger, when dry. Oftentimes in industry, poured epoxy is used instead of plastic. You can get it at Ace Hardware. I used it years ago to pot guitar pickups that were microphonic (squealy) at high volume levels. Microphonic guitar pickups occur when the coils are wound too loose, and nothing is used to hold the coil windings in place. They vibrate from the volume, and cause squealing. Using epoxy on other band members' pickups (I NEVER buy a guitar or a replacement pickup, unless it will pass my squeal test) pretty much solved this problem. A word of caution, epoxy can be messy. Also, be careful about the fumes!

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Ellen
>
> I could read emails but when I sent the ones for the group were bouncing back. I asked james what bouncing was and he explained it to me briefly. We were talking transverter direct and I could reach him.
>
> I reset the account last nite. It went on for 2 or 3 days for me. I sent to you and Gordon and Walt and it kept comming back. It's working now.
>
> James helped me thru the transverter cable problem thus far. I may have a viable cable wiring combination. I first must make sure why the transmitter wire passes back into the 520 before going to the TV-502. The 506 doesn't seem to do that. If I get that part cleared, I can begin the next step. building the cable.
>
> I bought a DB-25 assembly kit to use the pins for the substitution connector. I am wondering if it would be better to use the DB-9 pins like on the back of a computer monitor being as they are a little smaller. This way I wouldn't widen the mates in the socket as easily.

>
> I must find a way to secure the pins as a connector. James
suggested something like RTV sealant to hold the pins fast. Iwas
thinking maybe use a piece of circuit board betwenn the rows to hold
the pins to. another idea I came up with is to move the whole
assembly into a mold and pour some kind of liquid plastic in to make
it a firm one piece connector. Then heat shrink a sleeve around the
cable to the transverter connector.
>
> Any suggestions?
>
> Ellen R <ellenjoanne2003@...> wrote:
> Hi Reuben,
>
> Do you mean no e-mails at all from the group, or do you mean no e-
mails
> in a digest format (in other words the e-mail contains
mulitplemessages
> from the group's Yahoo board)? If it's the latter, I took a look at
> your profile, and it's listed for you to receive indivual e-mails.
You
> aren't blocked, or anything like that.
>
> Ellen - AF9J
> Kenwood TS 520_820_530_830 moderator
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ruben" <ka2hhb_2000@>
> wrote:
> >
> > For some reason I'm not receiving any group emails amymore?
> >
>
>
>
>
>
>
> ---------------------------------
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]
>

10674. Re: [TS-520_820_530_830] Re: Don't know what happened? - TV502 cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 13:56:28 UTC
From: Ruben Echevarria
Topic: 10650 Message: 10674

Hi Ellen, I'm ok now...receiving individual emails once again.
Somehow Yahoo was kicking back my emails. Had to do a reset.
Thanks ...Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ellen R <ellenjoanne2003@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 28, 2006 9:47:09 AM
Subject: [TS-520_820_530_830] Re: Don't know what happened? - TV502 cable.

Hi John,

I like the 2nd idea of using poured plastic. It will be mechanically sturdier. But you will need to make sure that the pins stay aligned during molding. Another thought might be to mount the pins in a cicuit board for spacing purposes, and rather than using plastic, use epoxy. It'll be cheaper than plastic you can work with at home, you won't have to deal with the heat issues plastic will give you during molding, and will be far stronger, when dry. Oftentimes in industry, poured epoxy is used instead of plastic. You can get it at Ace Hardware. I used it years ago to pot guitar pickups that were microphonic (squealy) at high volume levels. Microphonic guitar pickups occur when the coils are wound too loose, and nothing is used to hold the coil windings in place. They vibrate from the volume, and cause squealing. Using epoxy on other band members' pickups (I NEVER buy a guitar or a replacement pickup, unless it will pass my squeal test) pretty much solved this problem. A word of caution, epoxy can be messy. Also, be careful about the fumes!

73,
Ellen - AF9J

--- In TS-520_820_530_ 830@yahoogroups. com, John Harp <ka3dpw@...>
wrote:
>
> Ellen
>
> I could read emails but when I sent the ones for the group were bouncing back. I asked james what bouncing was and he explained it to me briefly. We were talking transverter direct and I could reach him.
>

> I reset the account last nite. It went on for 2 or 3 days for
me. I sent to you and Gordon and Walt and it kept comming back. It's
working now.
>
> James helped me thru the transverter cable problem thus far. I
may have a viable cable wiring combination. I first must make sure
why the transmitter wire passes back into the 520 before going to the
TV-502. The 506 doesn't seem to do that. If I get that part cleared,
I can begin the next step. building the cable.
>
> I bought a DB-25 assembly kit to use the pins for the
substitution connector. I am wondering if it would be better to use
the DB-9 pins like on the back of a computer monitor being as they
are a little smaller. This way I wouldn't widen the mates in the
socket as easily.
>
> I must find a way to secure the pins as a connector. James
suggested something like RTV sealant to hold the pins fast. Iwas
thinking maybe use a piece of circuit board betwenn the rows to hold
the pins to. another idea I came up with is to move the whole
assembly into a mold and pour some kind of liquid plastic in to make
it a firm one piece connector. Then heat shrink a sleeve around the
cable to the transverter connector.
>
> Any suggestions?
>
> Ellen R <ellenjoanne2003@ ...> wrote:
> Hi Reuben,
>
> Do you mean no e-mails at all from the group, or do you mean no e-
mails
> in a digest format (in other words the e-mail contains
mulitplemessages
> from the group's Yahoo board)? If it's the latter, I took a look at
> your profile, and it's listed for you to receive indivual e-mails.
You
> aren't blocked, or anything like that.
>
> Ellen - AF9J
> Kenwood TS 520_820_530_ 830 moderator
>
> --- In TS-520_820_530_ 830@yahoogroups. com, "Ruben" <ka2hhb_2000@ >
> wrote:
> >
> > For some reason I'm not receiving any group emails amymore?
> >
>
>
>
>

>
>
> ------------ --------- --------- ---
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10675. TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 15:30:51 UTC
From: wayfound2000
Topic: 10675 Message: 10675

Anyone know what these are Like on AM TX/RX? Good/Bad indifferent? Got a chance to buy one. Appriciate any comments/experieces..many thanks
Pete

10676. Re: TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 16:13:47 UTC
From: digs4ruff
Topic: 10675 Message: 10676

If you put any stock in Eham reviews there are 4 good ones at
http://www.eham.net/reviews/detail/2942
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "wayfound2000"
<wayfound2000@...> wrote:
>
> Anyone know what these are Like on AM TX/RX? Good/Bad indifferent?
Got
> a chance to buy one. Appriciate any comments/experieces..many thanks
> Pete
>

10677. PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 16:51:07 UTC
From: digs4ruff
Topic: 10643 Message: 10677

I have almost got the power supply back together and it is looking
fairly good.
Voltages as follows:
Specifications vs Actual
-90V plus or minus 10V vs -91V
+150V vs +192V to +199V
12.5VAC vs 13.6VAC
+210V vs +232V
+300V vs +300V
+800V vs +947V

At the present moment I am not too worried about the +800V line
(unless I should touch it) but am focused on the +150V stabilized
circuitry as I am not able to lower the voltage below +192V.

regards
Barry

10678. transverters for the ts-830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 17:00:31 UTC
From: Richard Fox
Topic: 10678 Message: 10678

Can anyone point me in the direction of transverters that would marry well with the TS-830S? May not exsist but it's a nice idea. Thanks in advance for the help

Rick, KI4GCX

10679. Re: [TS-520_820_530_830] Re: Don't know what happened? - TV502 cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 18:30:53 UTC
From: Peter A Markavage
Topic: 10650 Message: 10679

All sounds too messy for me. I'd pop the original connectors out, replace
them with DB15's or DB23's, maybe mounted on an aluminum plate for
mounting to the rigs, and then wire them up.

Pete, wa2cwa

On Sat, 28 Oct 2006 13:47:09 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Hi John,
>
> I like the 2nd idea of using poured plastic. It will be mechanically
>
> sturdier. But you will need to make sure that the pins stay aligned
>
> during molding. Another thought might be to mount the pins in a
> cicuit board for spacing purposes, and rather than using plastic,
> use
> epoxy. It'll be cheaper than plastic you can work with at home, you
>
> won't have to deal with the heat issues plastic will give you during
>
> molding, and will be far stronger, when dry. Oftentimes in
> industry,
> poured epoxy is used instead of plastic. You can get it at Ace
> Hardware. I used it years ago to pot guitar pickups that were
> microphonic (squealy) at high volume levels. Microphonic guitar
> pickups occur when the coils are wound too loose, and nothing is
> used
> to hold the coil windings in place. They vibrate from the volume,
> and cause squealing. Using epoxy on other band members' pickups (I
>
> NEVER buy a guitar or a replacement pickup, unless it will pass my
> squeal test) pretty much solved this problem. A word of caution,
> epoxy can be messy. Also, be careful about the fumes!
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
> wrote:
> >
> > Ellen
> >
> > I could read emails but when I sent the ones for the group

> were
> bouncing back. I asked james what bouncing was and he explained it
> to
> me briefly. We were talking transverter direct and I could reach
> him.
> >
> > I reset the account last nite. It went on for 2 or 3 days for
>
> me. I sent to you and Gordon and Walt and it kept comming back. It's
>
> working now.
> >
> > James helped me thru the transverter cable problem thus far. I
>
> may have a viable cable wiring combination. I first must make sure
> why the transmitter wire passes back into the 520 before going to the
>
> TV-502. The 506 doesn't seem to do that. If I get that part cleared,
>
> I can begin the next step. building the cable.
> >
> > I bought a DB-25 assembly kit to use the pins for the
> substitution connector. I am wondering if it would be better to use
>
> the DB-9 pins like on the back of a computer monitor being as they
> are a little smaller. This way I wouldn't widen the mates in the
> socket as easily.
> >
> > I must find a way to secure the pins as a connector. James
> suggested something like RTV sealant to hold the pins fast. Iwas
> thinking maybe use a piece of circuit board betwenn the rows to
> hold
> the pins to. another idea I came up with is to move the whole
> assembly into a mold and pour some kind of liquid plastic in to make
>
> it a firm one piece connector. Then heat shrink a sleeve around the
>
> cable to the transverter connector.
> >
> > Any suggestions?
> >
> > Ellen R <ellenjoanne2003@...> wrote:
> > Hi Reuben,

10680. Re: [TS-520_820_530_830] transverters for the ts-830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 17:32:13 UTC
From: jsloss
Topic: 10678 Message: 10680

Rick: It may require a bit of work on your part but the Hallicrafters and Drake transverters are excellent units.

Joe k7mks----- Original Message -----
From: Richard Fox
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 28, 2006 10:00 AM
Subject: [TS-520_820_530_830] transverters for the ts-830s?

Can anyone point me in the direction of transverters that would marry well with the TS-830S? May not exsist but it's a nice idea. Thanks in advance for the help

Rick, KI4GCX

[Non-text portions of this message have been removed]

10681. Re: PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 18:29:42 UTC
From: digs4ruff
Topic: 10643 Message: 10681

Last time I powered up the supply I brought it up on a Variac as it
was the first time for the new caps. I have tested it a few times
with the light buld and now have it plugged directly to the outlet.
It will now go power on without blowing the fuse.
I checked all the caps and resistors near the stabilized +150V and
could find nothing that was far out of spec. While standing there
staring at the UC1004J board and wondering what was causing the
+150V to be +192V I noticed that neon NE2 was varying slightly in
intensity. I quickly replaced it with a new 120V neon and the 150V
circuit is now 150V and stable.
Just the +800V to follow up on but I don't see anything in the
schematic that should cause this and I don't know if this is cause
for concern. Any advice appreciated. The schematic is in the Manuals
folder if anyone wants to look at it.
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> I have almost got the power supply back together and it is looking
> fairly good.
> Voltages as follows:
> Specifications vs Actual
> -90V plus or minus 10V vs -91V
> +150V vs +192V to +199V
> 12.5VAC vs 13.6VAC
> +210V vs +232V
> +300V vs +300V
> +800V vs +947V
>
> At the present moment I am not too worried about the +800V line
> (unless I should touch it) but am focused on the +150V stabilized
> circuitry as I am not able to lower the voltage below +192V.
>
> regards
> Barry
>

10682. Re: [TS-520_820_530_830] transverters for the ts-830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 18:35:13 UTC
From: Peter A Markavage
Topic: 10678 Message: 10682

I use the SSB Electronic LT6S with my 830S. Mates and works well. The Downeast stuff also mates and works well. But, then again, cosmetic matching is not an issue with me; only performance.

Pete, wa2cwa

On Sat, 28 Oct 2006 17:00:31 -0000 "Richard Fox" <rfox945289@...> writes:
> Can anyone point me in the direction of transverters that would marry
>
> well with the TS-830S? May not exsist but it's a nice idea. Thanks
> in
> advance for the help
>
> Rick, KI4GCX

10683. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 18:40:31 UTC
From: Peter A Markavage
Topic: 10675 Message: 10683

Low level modulator for AM; about 25 watts out on AM; has 6KHz AM filter.
If your enterprising enough, you can build the AM board (several
transistors, relay, couple of other parts) from the into in the service
manual. Just need to find a 6 KHz filter (same one is used in the 930).

Pete, wa2cwa

On Sat, 28 Oct 2006 15:30:51 -0000 "wayfound2000"
<wayfound2000@...> writes:
> Anyone know what these are Like on AM TX/RX? Good/Bad indifferent?
> Got
> a chance to buy one. Appriciate any comments/experieces..many
> thanks
> Pete

10684. OT - Technician PowerPoint Study Guides

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 21:31:09 UTC
From: Norman Young
Topic: 10684 Message: 10684

Gang,

This is not related to either of my trusty Kenwoods, but somebody here may find it of some interest.

Our club has just produced a series of ten free PowerPoint study guides for the Technician exam. These are suitable for individual study or by an instructor in a classroom setting. Each one consists of a series of instructional slides followed by a series of questions from the pool. We chose this format so that (hopefully) a person would have a relativell painless way of actually learning the material tested, rather than just memorizing correct answers. Only time will tell whether we got it right.

This is a club project undertaken for the good of amateur radio only, and the study guides are absolutely free. You can download any or all of them from:

http://cnormany.googlepages.com/home

Please feel free to share these with anyone who might be interested in getting a Tech license, or who could use them to teach a ham class.

73,
Norman
KA4PUV

Wrong is wrong even if everybody is doing it, and right is right even if nobody is doing it. - Augustine

10685. Re: [TS-520_820_530_830] Re: PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 21:49:01 UTC
From: N6WK
Topic: 10643 Message: 10685

Barry, The 800 Volt supply is probably going to be around 950 Volts with
NO load on it.
On my TS-830, the 800 Volt supply is about 950 Volts with NO load.
Gordon

digs4ruff wrote:

> Last time I powered up the supply I brought it up on a Variac as it
> was the first time for the new caps. I have tested it a few times
> with the light buld and now have it plugged directly to the outlet.
> It will now go power on without blowing the fuse.
> I checked all the caps and resistors near the stabilized +150V and
> could find nothing that was far out of spec. While standing there
> staring at the UC1004J board and wondering what was causing the
> +150V to be +192V I noticed that neon NE2 was varying slightly in
> intensity. I quickly replaced it with a new 120V neon and the 150V
> circuit is now 150V and stable.
> Just the +800V to follow up on but I don't see anything in the
> schematic that should cause this and I don't know if this is cause
> for concern. Any advice appreciated. The schematic is in the Manuals
> folder if anyone wants to look at it.
> thanks
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "digs4ruff"
> <digs4ruff@...> wrote:
> >
> > I have almost got the power supply back together and it is looking
> > fairly good.
> > Voltages as follows:
> > Specifications vs Actual
> > -90V plus or minus 10V vs -91V
> > +150V vs +192V to +199V
> > 12.5VAC vs 13.6VAC
> > +210V vs +232V
> > +300V vs +300V
> > +800V vs +947V
> >
> > At the present moment I am not too worried about the +800V line
> > (unless I should touch it) but am focused on the +150V stabilized
> > circuitry as I am not able to lower the voltage below +192V.
> >
> > regards
> > Barry

> >
>
>

[Non-text portions of this message have been removed]

10686. Re: PS-510 Power supply

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 22:07:51 UTC
From: digs4ruff
Topic: 10643 Message: 10686

Gordon
It is 950V with the radio plugged into the supply in recieve mode.
The 950V is exactly and equally devided by the voltage doubler
circuit. All voltages are stable over five hours now so almost time
to put the cover on the power supply and move on to the radio.
thanks
Barry

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Barry, The 800 Volt supply is probably going to be around 950
Volts with
> NO load on it.
> On my TS-830, the 800 Volt supply is about 950 Volts with NO load.
> Gordon
>
> digs4ruff wrote:
>
> > Last time I powered up the supply I brought it up on a Variac as
it
> > was the first time for the new caps. I have tested it a few times
> > with the light buld and now have it plugged directly to the
outlet.
> > It will now go power on without blowing the fuse.
> > I checked all the caps and resistors near the stabilized +150V
and
> > could find nothing that was far out of spec. While standing there
> > staring at the UC1004J board and wondering what was causing the
> > +150V to be +192V I noticed that neon NE2 was varying slightly in
> > intensity. I quickly replaced it with a new 120V neon and the
150V
> > circuit is now 150V and stable.
> > Just the +800V to follow up on but I don't see anything in the
> > schematic that should cause this and I don't know if this is
cause
> > for concern. Any advice appreciated. The schematic is in the
Manuals
> > folder if anyone wants to look at it.
> > thanks
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "digs4ruff"
> > <digs4ruff@> wrote:
> > >

> > > I have almost got the power supply back together and it is
looking
> > > fairly good.
> > > Voltages as follows:
> > > Specifications vs Actual
> > > -90V plus or minus 10V vs -91V
> > > +150V vs +192V to +199V
> > > 12.5VAC vs 13.6VAC
> > > +210V vs +232V
> > > +300V vs +300V
> > > +800V vs +947V
> > >
> > > At the present moment I am not too worried about the +800V line
> > > (unless I should touch it) but am focused on the +150V
stabilized
> > > circuitry as I am not able to lower the voltage below +192V.
> > >
> > > regards
> > > Barry
> > >
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10687. Re: TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-28 22:51:28 UTC
From: wayfound2000
Topic: 10675 Message: 10687

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> Low level modulator for AM; about 25 watts out on AM; has 6KHz AM
filter.
> If your enterprising enough, you can build the AM board (several
> transistors, relay, couple of other parts) from the into in the
service
> manual. Just need to find a 6 KHz filter (same one is used in the
930).
>
> Pete, wa2cwa
>
> On Sat, 28 Oct 2006 15:30:51 -0000 "wayfound2000"
> <wayfound2000@...> writes:
> > Anyone know what these are Like on AM TX/RX? Good/Bad
indifferent?
> > Got
> > a chance to buy one. Appriciate any comments/experieces..many
> > thanks

Tnaks for that. Very helpful. All the best
> > Pete
>

10688. email turned off again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 04:00:09 UTC
From: Bill Richarz
Topic: 10688 Message: 10688

Once again I'm not receiving email from any of my
yahoo groups. What's my problem?
tnx
Bill

Low, Low, Low Rates! Check out Yahoo! Messenger's
cheap PC-to-Phone call rates
(http://voice.yahoo.com)

Get your email and see which of your friends are online - Right on the New Yahoo.com
(http://www.yahoo.com/preview)

10689. Re: [TS-520_820_530_830] transverters for the ts-830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 04:53:01 UTC
From: John Harp
Topic: 10678 Message: 10689

OK Pete, the project I undertook was to take some of these old units out here and see if they can be brought back to use for a reasonable price. They make a good start to VHF that way.

We as a group would have the info for our archives any time a question came up. james runs a 530 and I an 830. They were originally made for 520.

I was trying to learn more about our radios we love. I'm not opposed to the other options we as amateurs have available to us.

Another idea I was looking at was to possibly shift up frequency from 144 to 220 with TV-502. Much of my discussions thus far have been away from the group.

I do agree that the other ideas you describe may well be a practical way to go for many.I admit down east microwave has impressed me as well.james has suggested the conversion of a 1209 also.

But I can only look at so much at a time. Your response is well taken.

VHF is something new to me beyond FM. I chose a challenge when an opportunity arose.

I'm thinking about a 6 meter transverter as well. I'm looking also at the possibility of converting a 2 meter to 220 and having all three bands. But I haven't looked into it much. The solid state probably could do it, the circuits may need a little minor changes, the biggest question is the helical filters. The HET could be moved to 5th harmonic, the mixers retuned hopefully as well. But it's just a pondering at this point.

For now I got a unit for 80 dollars no cables and no manual. The person who sold it to me knew nothing about this stuff. The previous owner has been silent key for a couple years now.

My challengem a good one for my skills, get it to work. A second one is out there for another 80 dollars right now. I nees a cover and has been altered. 80 dollars is not going to hurt my budget if it doesn't work. If it does, then buy the other for a spare parts or get it running. If anyone is interested in joining in the group the invitation is there. James already has his running. I'm offerering the contribution of the experience should it work. James has helped me some too. We talk out along the sides between ourselves. If you would like or there is interest we'll share.

Peter A Markavage <pmarkavage@...> wrote:
I use the SSB Electronic LT6S with my 830S. Mates and works well. The
Downeast stuff also mates and works well. But, then again, cosmetic
matching is not an issue with me; only performance.

Pete, wa2cwa

On Sat, 28 Oct 2006 17:00:31 -0000 "Richard Fox" <rfox945289@...>
writes:

> Can anyone point me in the direction of transverters that would marry
>
> well with the TS-830S? May not exsist but it's a nice idea. Thanks
> in
> advance for the help
>
> Rick, KI4GCX

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10690. Re: [TS-520_820_530_830] Re: Don't know what happened? - TV502 cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 04:55:10 UTC
From: John Harp
Topic: 10650 Message: 10690

I've contemplated that also. I was looking for a way to keep as much of the original eqipment as possible.

Peter A Markavage <pmarkavage@...> wrote: All sounds too messy for me. I'd pop the original connectors out, replace
them with DB15's or DB23's, maybe mounted on an aluminum plate for
mounting to the rigs, and then wire them up.

Pete, wa2cwa

On Sat, 28 Oct 2006 13:47:09 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Hi John,
>
> I like the 2nd idea of using poured plastic. It will be mechanically
>
> sturdier. But you will need to make sure that the pins stay aligned
>
> during molding. Another thought might be to mount the pins in a
> cicuit board for spacing purposes, and rather than using plastic,
> use
> epoxy. It'll be cheaper than plastic you can work with at home, you
>
> won't have to deal with the heat issues plastic will give you during
>
> molding, and will be far stronger, when dry. Oftentimes in
> industry,
> poured epoxy is used instead of plastic. You can get it at Ace
> Hardware. I used it years ago to pot guitar pickups that were
> microphonic (squealy) at high volume levels. Microphonic guitar
> pickups occur when the coils are wound too loose, and nothing is
> used
> to hold the coil windings in place. They vibrate from the volume,
> and cause squealing. Using epoxy on other band members' pickups (I
>
> NEVER buy a guitar or a replacement pickup, unless it will pass my
> squeal test) pretty much solved this problem. A word of caution,
> epoxy can be messy. Also, be careful about the fumes!
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
> wrote:

> >
> > Ellen
> >
> > I could read emails but when I sent the ones for the group
> were
> bouncing back. I asked james what bouncing was and he explained it
> to
> me briefly. We were talking transverter direct and I could reach
> him.
> >
> > I reset the account last nite. It went on for 2 or 3 days for
>
> me. I sent to you and Gordon and Walt and it kept comming back. It's
>
> working now.
> >
> > James helped me thru the transverter cable problem thus far. I
>
> may have a viable cable wiring combination. I first must make sure
> why the transmitter wire passes back into the 520 before going to the
>
> TV-502. The 506 doesn't seem to do that. If I get that part cleared,
>
> I can begin the next step. building the cable.
> >
> > I bought a DB-25 assembly kit to use the pins for the
> substitution connector. I am wondering if it would be better to use
>
> the DB-9 pins like on the back of a computer monitor being as they
> are a little smaller. This way I wouldn't widen the mates in the
> socket as easily.
> >
> > I must find a way to secure the pins as a connector. James
> suggested something like RTV sealant to hold the pins fast. Iwas
> thinking maybe use a piece of circuit board betwenn the rows to
> hold
> the pins to. another idea I came up with is to move the whole
> assembly into a mold and pour some kind of liquid plastic in to make
>
> it a firm one piece connector. Then heat shrink a sleeve around the
>
> cable to the transverter connector.
> >
> > Any suggestions?
> >
> > Ellen R <ellenjoanne2003@...> wrote:
> > Hi Reuben,

Get your email and see which of your friends are online - Right on the new Yahoo.com

[Non-text portions of this message have been removed]

10691. Re: [TS-520_820_530_830] transverters for the ts-830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 05:48:09 UTC
From: John Harp
Topic: 10678 Message: 10691

The one rhing you will want to remember in your transverter change is to make sure your IF will line up to your radio you are matching this to.

For example, the TV-502 was made for TS-530 originally in my example and will easily enough alter to 830. James already uses his 502 and 506 on his 530 as I understand from him. In this case going from 144 or 50 mhz to IF of 28 mhz.

The other issue is lines from the radio to supply control like ALC and switching T/R like you would on an amplifier. There may be other factors involved depending on your unit you choose.

As Pete said and he is correct there are some other units out there that are good choices. He pointed out the Down East Microwave products. I was tempted by this idea myself.

But 80 dollars for a unit and a challenge for me of my skills to see if I can make the project work and possibly keep all original was something worth more than the 80 dollars.

To offer something to the group and place it in documentation with permission of our moderators and owner was a contribution I'd like to offer.

Actually transverters are a less talked about subject and it applies the same principals of hetrodyning we already use and are familiar with.

I must admit I've met some new and interesting people to exchange ideas with in the persuit of this project. Originally in another conversation with Ellen she suggested looking into meeting the pack rats. And she was right. I got an officer to post to their reflextors right off the bat.

I also met and am still conversing with one of the spruce pirates of West Viginia another well known group. His call you may be reconize some of you is W3ZZ and name is Gene Zimmerman. Where do you know him from? Open your QST and look at the Articles The World Above 50 MHZ.

Our resources are at our finger tips, in more than just a soldering gun. We have people everywhere. We enjoy communicating with each other. Be it a mic, a vibroplex, straight key, or even a group like we are.

If you want to look into your idea for Drake, ask around your fellow hams. Some may be familiar with that equipment or they may know someone who is. Look for other groups into that line of radios too. Mt Airy VHF is who I contacted, who is near you with a well organized and active group?

Those are my suggestions. Why is there little information about the older equipment? Well manufacturers no longer want to talk about the old stuff they want to sell new. Some people who once had experience at this stuff are falling away from the hobby, be it a change in interests or health reasons or even silent key which I found a lot of.

I found I had to rely on my electronics education and experiences alot to pull me across and others like James who I could call on with my issues and ideas.

We aren't just appliance operators, it just makes the task of getting on the air easier. We can still use our skills to make or alter from something else to achieve our objectives. I just talked quietly on the side to james and Ellen and Gene and others until I saw interest in the group, seeing the reaction.

I'm inspired now to eventually make VHF, discover sporadics and ducting and VUCC and learn about the grids around me. And I will achieve that level in time. For now I will also enjoy a gaining a little experience in the opportunity that presented itself to me and hopefully share with others.

So look into your idea Joe. It may be something worth your effort. Keep it in your budget in case of a problem and if it takes a little longer to achieve than expected don't let it get you discouraged and abandon it. 80 won't hurt me if it is broke beyond repair and I know where another is for spart parts.

Get your documentation out. Look into it. Give it some thought. Ask questions.

Alot of the all mode radios today will already go there. I pondered the project I have for my introduction to VHF for it's price and worthwhile challenge to me. Gene thought it was a good idea.

jsloss <k7mks@...> wrote:
Rick: It may require a bit of work on your part but the Hallicrafters and Drake transverters are excellent units.

Joe k7mks----- Original Message -----
From: Richard Fox
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, October 28, 2006 10:00 AM
Subject: [TS-520_820_530_830] transverters for the ts-830s?

Can anyone point me in the direction of transverters that would marry well with the TS-830S? May not exsist but it's a nice idea. Thanks in advance for the help

Rick, KI4GCX

[Non-text portions of this message have been removed]

Check out the New Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10692. Re: [TS-520_820_530_830] transverters for the ts-830s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 05:58:31 UTC
From: John Harp
Topic: 10678 Message: 10692

Rick start with web pages. ebay sells them occasionally. Watch parts swaps. silent keys are estate sales and often there is auctions. There are groups around that will auction radio gear for family of the deceased and the like.

Go to Down East Microwave and look at what they have. They even have stuff that will attach to a Kenwood. Put the word out among others and see what comes back. This is a technique comonly used by small businesses. They talk to each other just as we do.

Hamfests can be a cheap resource. Watch classifieds. They are around. You just gotta watch, do your homework, bid carefully and esablish a budget and stick to it.

Richard Fox <rfox945289@...> wrote:
Can anyone point me in the direction of transverters that would marry
well with the TS-830S? May not exsist but it's a nice idea. Thanks in
advance for the help

Rick, KI4GCX

Get your email and see which of your friends are online - Right on the new Yahoo.com

[Non-text portions of this message have been removed]

10693. Re: [TS-520_820_530_830] Re: Don't know what happened? - TV502 cable.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 06:08:36 UTC
From: John Harp
Topic: 10650 Message: 10693

I already am used to messes, I work with ink for striping wire all week long. I remember that about maechanical vibration in amps forgot about that. I once used epoxy to seal a coil for a motorcycle once. Good point.I did consider the PCB method and wondered how to get the spacing between pins if mounted as a facing. Maybe using those cicuit transfers and etching would work. I even pondered the thought of securing the pins to a nail file some how like RTV sealant, while sitting in the socket.

Ellen R <ellenjoanne2003@...> wrote: Hi John,

I like the 2nd idea of using poured plastic. It will be mechanically sturdier. But you will need to make sure that the pins stay aligned during molding. Another thought might be to mount the pins in a cicuit board for spacing purposes, and rather than using plastic, use epoxy. It'll be cheaper than plastic you can work with at home, you won't have to deal with the heat issues plastic will give you during molding, and will be far stronger, when dry. Oftentimes in industry, poured epoxy is used instead of plastic. You can get it at Ace Hardware. I used it years ago to pot guitar pickups that were microphonic (squealy) at high volume levels. Microphonic guitar pickups occur when the coils are wound too loose, and nothing is used to hold the coil windings in place. They vibrate from the volume, and cause squealing. Using epoxy on other band members' pickups (I NEVER buy a guitar or a replacement pickup, unless it will pass my squeal test) pretty much solved this problem. A word of caution, epoxy can be messy. Also, be careful about the fumes!

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Ellen
>
> I could read emails but when I sent the ones for the group were bouncing back. I asked james what bouncing was and he explained it to me briefly. We were talking transverter direct and I could reach him.
>
> I reset the account last nite. It went on for 2 or 3 days for me. I sent to you and Gordon and Walt and it kept comming back. It's working now.
>
> James helped me thru the transverter cable problem thus far. I may have a viable cable wiring combination. I first must make sure why the transmitter wire passes back into the 520 before going to the

TV-502. The 506 doesn't seem to do that. If I get that part cleared,
I can begin the next step. building the cable.
>
> I bought a DB-25 assembly kit to use the pins for the
substitution connector. I am wondering if it would be better to use
the DB-9 pins like on the back of a computer monitor being as they
are a little smaller. This way I wouldn't widen the mates in the
socket as easily.
>
> I must find a way to secure the pins as a connector. James
suggested something like RTV sealant to hold the pins fast. Iwas
thinking maybe use a piece of circuit board betwenn the rows to hold
the pins to. another idea I came up with is to move the whole
assembly into a mold and pour some kind of liquid plastic in to make
it a firm one piece connector. Then heat shrink a sleeve around the
cable to the transverter connector.
>
> Any suggestions?
>
> Ellen R <ellenjoanne2003@...> wrote:
> Hi Reuben,
>
> Do you mean no e-mails at all from the group, or do you mean no e-
mails
> in a digest format (in other words the e-mail contains
mulitplemessages
> from the group's Yahoo board)? If it's the latter, I took a look at
> your profile, and it's listed for you to receive indivual e-mails.
You
> aren't blocked, or anything like that.
>
> Ellen - AF9J
> Kenwood TS 520_820_530_830 moderator
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ruben" <ka2hhb_2000@>
> wrote:
> >
> > For some reason I'm not receiving any group emails amymore?
> >
>
>
>
>
>
>
>
> ---------------------------------
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]

>

Access over 1 million songs - Yahoo! Music Unlimited Try it today.

[Non-text portions of this message have been removed]

10694. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 06:17:23 UTC
From: John Harp
Topic: 10675 Message: 10694

Don't see much of them. They are a model used in Europe I think. Similar to 830S. Should be a good radio to use I would think, if it is in good working shape. If it is all there with manual and the price is right and working with known issues not a problem I'd say go for it.

wayfound2000 <wayfound2000@...> wrote: Anyone know what these are Like on AM TX/RX? Good/Bad indifferent? Got
a chance to buy one. Appriciate any comments/experieces..many thanks
Pete

Access over 1 million songs - Yahoo! Music Unlimited Try it today.

[Non-text portions of this message have been removed]

10695. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 07:22:18 UTC
From: pmertens
Topic: 10675 Message: 10695

The TS830M has AM modulation also, hence the M instead of S. Otherwise,
same rig as S model.

PAtrick - ON4NY

John Harp a ?crit :
> Don't see much of them. They are a model used in Europe I think. Similar to 830S. Should be a good radio to use I would think, if it is in good working shape. If it is all there with manual and the price is right and working with known issues not a problem I'd say go for it.
>
> wayfound2000 <wayfound2000@...> wrote: Anyone know what these are Like on AM TX/RX? Good/Bad indifferent? Got
> a chance to buy one. Appriciate any comments/experieces..many thanks
> Pete
>
>
>
>
>
>
> ---
> Access over 1 million songs - Yahoo! Music Unlimited Try it today.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

10696. Re: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 10:03:51 UTC
From: n9wb
Topic: 10645 Message: 10696

Jody:

You will need a small soldering iron, and solder made for electronic work called Rosin Core. Ace Hardware has an inexpensive small pencil iron by Weller that I like better than the Radio Shack ones. Some day you will want a better temperature controlled iron, but this will do for now. Radio Shack solder is good. You will need solder wick and/or a device called a solderpulit. It looks like a large hypodermic needle and vacuums hot solder from a connection.

You will need an inexpensive analog Volt Ohm meter. Something in the $10 to $30 range will be enough. When you get the meter, do NOT connect the meter to a live circuit in any position but AC or DC volts.

You will need some hand tools like screwdrivers, small needle nose pliers, and small wire cutters. You may already have most of this. Radio Shack or Fry's is a local source for small hand tools. Screwdrivers can be found at Wall Mart of Dollar stores. At our Dollar store, there is a set of small jeweler's screw drivers for a dollar. Alignment tools and things like that can be gotten as you need them.

You should also find the article called "Save Your Transformer!" In the files section of this group.

Build this device before you attempt to power up your rig. It is a simple device that places a light bulb in series with the hot side of the AC line to your rig so if there is a short, damage to the transformer does not occur. You should place this in line with your rig before you turn it on since you know that there is a problem.

Do you have a owner's and service manual for this rig ?

Likely what has happened is that the final tubes shorted and blew the line fuse and two resistors. Hopefully the previous owner did not keep trying fuses or a larger fuse and your transformer is OK.

The resistors that may be damaged are two 10 ohm 1 watt resistors on the final board in the cathode circuit. We can tell you how to check them.

So the first step is to remove the final tubes, treat them as though they are good until you find otherwise. Tape or position the caps from the tube plate caps so they will not short to anything.

Place the correct fuse (6 amp for 120 volt operation) in the rig.

Connect it to the light bulb tester. When you turn it on, the light bulb should be bright and quickly dim down. If it stays bright, unplug the rig and we will take you from there.

If all is well, see if the rig receives. Tell us what you get from these steps.

Now READ THIS FIRST!!!

CAUTION: These rigs have high voltages in them as high as 900 V. Work Safely. There is very high voltage inside the final cage. There is also high voltage on the bottom around the power transformer and on the rectifier and High voltage board. The capacitors in these rigs will hold these high voltages after they are turned off. There are bleeder resistors that are SUPPOSED to bleed off these voltages in a couple of minutes. However, what if one or more of these is bad? and this is not at all uncommon. So if the rig has been on in recent days, or if it has just been turned off, wait 2 minutes, then using a screwdriver with an insulated handle, short the top of the plate choke to the final cage ground. This point is the top of the long choke coil where the plate caps connect to. Between this point and the plate caps there will be parasitic chokes that are resistors with wire wrapped around them. Where these connect to the choke is a good place to discharge the high voltage. ALWAYS unplug the rig when working on it! Never trust the off/on switch. The off/on switch does not always disconnect all of the voltage from the wall and it does not always work so don't bet your life on it.

We will wait to hear from you.

Vy 73, Walt N9WB

----- Original Message -----
From: Jody Mills
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, October 27, 2006 8:27 AM
Subject: [TS-520_820_530_830] (Newbie Advice Needed) Tools I should get for fixing up non-working 520-s?

I have a non-working 520-s that I was originally going to send to Ken Kemski to have refurbished, but I'm having second thoughts. It's not anything to do with Mr. Kemski, as it's a no-brainer that he could do a much better job (and quicker) fixing and refurbishing my radio than I can. However, I actually want to LEARN about how to work on this old radio. Right now I have ZERO tech skills, but I'm willing to learn. And what better way to learn than on an old radio that already doesn't work. The worst thing I can do is--fix it.

A little background: I got the radio off of an Ebay auction where the seller was up front about the radio not working. The seller said that they turned it on, heard a popping sound, saw a wisp of smoke come from the radio, and then it went dead, never to turn on again.

I would be interested to know if this sounds familiar to anyone here and what it likely means. I would also like to know what tools I will need for working on this radio and where I can likely get them. I do have a local Radio Shack where I live if that helps.

By the way, the FCC issued my callsign yesterday, 10/26/06. I am officially a Technician class license holder, and my callsign is KE7JII. I will upgrade in a few months, but right now I'm just getting my feet wet with the local vhf community and looking forward to tearing apart my old Kenwood.

Thanks in advance for your help!

Jody A(lan) Mills, KE7JII

10697. Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 12:17:30 UTC
From: Doug Behl
Topic: 10697 Message: 10697

Hello,

I'm new to the group, joining specifically to get one question answered. Searched through the messages, and didn't see a previous question of this nature, so here it goes.

I recently sold a Kenwood AT-250 to an elderly gentleman. After he received it, he said that he couldn't hook it up to his Kenwood TS-120 and TS-820 rigs. The AT-250 is made for the 430/440 series of radios.

First off, I don't own either of these rigs, so not too familiar with them. But, I didn't think you needed an antenna tuner for an 820. Doesn't the rig tune up procedure eliminate the need for an antenna tuner? If it does need a tuner, how would one go about connecting the AT-250 to the rig?

To me, it makes more sense to use the AT-250 with the TS-120, but still would like to know how. I couldn't find a manual on the internet for a TS-120.

If I could build him the right cable(s), that would be great. I would like to make this work for him on his rigs, or offer him his money back. Any help would be appreciated.

Best regards,

Doug Behl VE3XDB

10698. Re: Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 14:43:59 UTC
From: digs4ruff
Topic: 10697 Message: 10698

Doug
Welcome to the list. I think you will find what you want under
Files/Manuals/AT-250. I just scanned and uploaded it.
regards
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@...>
wrote:
>
> Hello,
>
> I'm new to the group, joining specifically to get one question
> answered. Searched through the messages, and didn't see a previous
> question of this nature, so here it goes.
>
> I recently sold a Kenwood AT-250 to an elderly gentleman. After he
> received it, he said that he couldn't hook it up to his Kenwood TS-
120
> and TS-820 rigs. The AT-250 is made for the 430/440 series of
radios.
>
> First off, I don't own either of these rigs, so not too familiar
with
> them. But, I didn't think you needed an antenna tuner for an 820.
> Doesn't the rig tune up procedure eliminate the need for an antenna
> tuner? If it does need a tuner, how would one go about connecting
the
> AT-250 to the rig?
>
> To me, it makes more sense to use the AT-250 with the TS-120, but
> still would like to know how. I couldn't find a manual on the
> internet for a TS-120.
>
> If I could build him the right cable(s), that would be great. I
would
> like to make this work for him on his rigs, or offer him his money
> back. Any help would be appreciated.
>
> Best regards,
>
> Doug Behl VE3XDB
>

10699. Re: [TS-520_820_530_830] TS830M

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 15:24:12 UTC
From: John Harp
Topic: 10675 Message: 10699

Well if AM is what your after then it would probably be a good deal if the radio has no iisues or something you could live with for the price, whatever the price is. Other than that it's an 830 which is known for being a good radio. It is aged now do remember that.

pmertens <pmertens@...> wrote: The TS830M has AM modulation also, hence the M instead of S. Otherwise,
same rig as S model.

PAtrick - ON4NY

John Harp a écrit :
> Don't see much of them. They are a model used in Europe I think. Similar to 830S. Should be a good radio to use I would think, if it is in good working shape. If it is all there with manual and the price is right and working with known issues not a problem I'd say go for it.
>
> wayfound2000 <wayfound2000@...> wrote: Anyone know what these are Like on AM TX/RX? Good/Bad indifferent? Got
> a chance to buy one. Appriciate any comments/experieces..many thanks
> Pete
>
>
>
>
>
>
> ---
> Access over 1 million songs - Yahoo! Music Unlimited Try it today.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10700. Re: [TS-520_820_530_830] Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 15:20:40 UTC
From: John Harp
Topic: 10697 Message: 10700

Doug, as recall the AT-250 you refer to is not of our tube final gear. The tuner matched to the TS-830 the latest of our tube hybrid models The AT-200 was the match up at that time.

The AT-250 was matched to the TS-140S. We don't have that in our archives. Although there maybe someone around who has or had the experience of this in our group. Rig pix and Universal Radio discontinued accessories is where I looked for this info I commented on.

I looked in the BAMA manuals and no luck there. You could look post the question to eham.net. Search there before you do.

You could contact Kenwood, but it probably won't get you much but thier mailings of thier latest gear they sell as flyers and a band chart.

A look thru the buxcomm catalog may produce an idea.

Has this person need for a tuner for 820? that might line up to an AT-200.

My question for him is did he give thought to an SGC Tuner? For the price it it isn't far from what was spent for the unit. LDG may be an option also.

I have an SGC-239 tuner I bought and put in a plastic box for a force-12 flagpole I have here. It's reliable for me. and water is not a problem with it.

Searcching manuals may be the best bet, but will take time.Out on ebay there' a store that sells manuals on CD. They have a store. The person for name is James G McQuagge Jr and email is k4lix@... name of the outfit is B & M Distributors P.O. Box 6227 Panama City, FL 32404-0227 the web page is www.hammanuals.com

That's my thoughts and suggestions for a search of the answers. To match the auto tuner to the radio may take some time and effort.

Doug Behl <ve3xdb@...> wrote:
Hello,

I'm new to the group, joining specifically to get one question
answered. Searched through the messages, and didn't see a previous
question of this nature, so here it goes.

I recently sold a Kenwood AT-250 to an elderly gentleman. After he
received it, he said that he couldn't hook it up to his Kenwood TS-120
and TS-820 rigs. The AT-250 is made for the 430/440 series of radios.

First off, I don't own either of these rigs, so not too familiar with
them. But, I didn't think you needed an antenna tuner for an 820.
Doesn't the rig tune up procedure eliminate the need for an antenna
tuner? If it does need a tuner, how would one go about connecting the
AT-250 to the rig?

To me, it makes more sense to use the AT-250 with the TS-120, but still would like to know how. I couldn't find a manual on the internet for a TS-120.

If I could build him the right cable(s), that would be great. I would like to make this work for him on his rigs, or offer him his money back. Any help would be appreciated.

Best regards,

Doug Behl VE3XDB

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10701. Re: [TS-520_820_530_830] Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 18:36:12 UTC
From: Bill Richarz
Topic: 10697 Message: 10701

You do need a tuner for the TS-820 if your antenna is
not resonate for the frequency, that is, over 3:1 or
so. I don't use one on my TS-820S as I have a
tri-bander and an inverted V for 40 & 75, which are
all resonate in those bands.

Of course when you get to extreme ends each side of
the resonant frequency having an AT-200 would be just
the tuner to tweak the SWR to 1:1 or so.

Not familiar with the tuner you sold so can't comment
on that.

Good luck,
73 de Bill, N4DH

--- Doug Behl <ve3xdb@...> wrote:

> Hello,
>
> I'm new to the group, joining specifically to get
> one question
> answered. Searched through the messages, and didn't
> see a previous
> question of this nature, so here it goes.
>
> I recently sold a Kenwood AT-250 to an elderly
> gentleman. After he
> received it, he said that he couldn't hook it up to
> his Kenwood TS-120
> and TS-820 rigs. The AT-250 is made for the 430/440
> series of radios.
>
> First off, I don't own either of these rigs, so not
> too familiar with
> them. But, I didn't think you needed an antenna
> tuner for an 820.
> Doesn't the rig tune up procedure eliminate the need
> for an antenna
> tuner? If it does need a tuner, how would one go
> about connecting the
> AT-250 to the rig?
>
> To me, it makes more sense to use the AT-250 with
> the TS-120, but
> still would like to know how. I couldn't find a

> manual on the
> internet for a TS-120.
>
> If I could build him the right cable(s), that would
> be great. I would
> like to make this work for him on his rigs, or offer
> him his money
> back. Any help would be appreciated.
>
> Best regards,
>
> Doug Behl VE3XDB
>
>
>
>

Low, Low, Low Rates! Check out Yahoo! Messenger's cheap PC-to-Phone call rates
(http://voice.yahoo.com)

10702. Re: [TS-520_820_530_830] Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 20:17:55 UTC
From: John Harp
Topic: 10697 Message: 10702

Well Bill you must remember that you have tube finals and they are a little more forgiving than solid state finals. SOme radios with solid state finals won't let you operate past 1.8 to 1. That little protection circuit does just that, protects your transistors during higher SWR.

On theother hand tube finals are a little more forgiving. 3 to 1 is not so bad for tubes. You go high enough and you could soften them up a little inside. 5 to 1 yeah I'd be concerned.

Your real question is what your losing out the transmission line to the antenna. Consider that loss. Not a big deal if your on open wire line. But how many people are? Are you running coax? Then it's time to consider looking into it. It might pay to use a tuner for you.

Here's an example. I run 1.3 to 1 from band edge to band edge on tube finals. I run a vertical. That's considered flat or close enough to call it that.That's not a sub band that's the whole band. Now I have a versa five tuner and a big linear for full bore power that heats the station when I key. :) Ha Ha!!

I can bypass the tuner and run straight in and more power goes out there. If SWR is to high I have a choice, cut power to save life in my radio and it's tubes or turn on my tuner. At 3 to 1 yeah I'll turn on my tuner.

I ran a cheapie little tuner on my 830 for years with coax to dipoles and the like. especially when it became non resonant or less resonant to where I wanted to transmit at the time. That was about 100 watts. Tubes lasted longer for me then. how many tube and neutralization changes do you go thru to pay for a tuner. to me it was a no brainer. Some where down the road it would pay for itself.

Today I've spent some money into a good antenna and a good feed line. A good ground and here oveer 25 years later on my second 830 and still have my first. i'm not into anything but two touch lamps in our house and the neighbors don't even know if I crank the power up. Why? because I am resonant to the antenna the cables buried underground too.

Some people use a balun out the end of a line. It helps prevent unwanted radiation. That means some of your power went to waste in an unwanted way and may be getting into something else asdn causing problems for you.

A TS 820 has the same finals as the 830 for all intended purposes. Take care of them and they'll last.

By the way I have 60 radials and I feed with hardline. The ground resistance is low. The vertical is built of wide tubular aluminum. Most all power gets off the antenna I generate. Power where I want it.

The ground run for the station is short and low inductance. Something less than 6 foot. That's good for HF, to long rod in farm land soil.

For a back up I have a flagpole with an auto tuner. visitors come they can park and operate just like me with thier gear.

Plan your station carefully. It's worth the effort. I've had G5RV's and other dipoles with good success too. I've had general purpose wires and end feds too.

Your 820 will do just as good. I have the 830 because my sight is getting worse now. The displays help me. I'll take an 820 or a 530 as substitution.

Cut your antennas to where you want them to operate. Tuners will help beyond that. Remember it doesn't correct the condition, it only lets your radio see the line a little better. We put our tuners on the station end, we'd do better to put them on the antenna end. Then the line wil be flat and radiate less thus less loss that way. any one for building a tuner for the other end? there's a few around you can use. For example: the SGC-239 is one for a cheap price for 100 watts out. It just needs a water tight shell.

Yes I went a little long on your answer, but hopefully gave you something to think about too. 3 to 1 on your 6146's well it's taking a little life a little sooner. But it will go a while. Then again what do you have to lose?

Bill Richarz <billn4dh@...> wrote:
You do need a tuner for the TS-820 if your antenna is
not resonate for the frequency, that is, over 3:1 or
so. I don't use one on my TS-820S as I have a
tri-bander and an inverted V for 40 & 75, which are
all resonate in those bands.

Of course when you get to extreme ends each side of
the resonant frequency having an AT-200 would be just
the tuner to tweak the SWR to 1:1 or so.

Not familiar with the tuner you sold so can't comment
on that.

Good luck,
73 de Bill, N4DH

--- Doug Behl <ve3xdb@...> wrote:

> Hello,
>
> I'm new to the group, joining specifically to get
> one question
> answered. Searched through the messages, and didn't
> see a previous
> question of this nature, so here it goes.
>
> I recently sold a Kenwood AT-250 to an elderly
> gentleman. After he
> received it, he said that he couldn't hook it up to
> his Kenwood TS-120
> and TS-820 rigs. The AT-250 is made for the 430/440
> series of radios.
>

> First off, I don't own either of these rigs, so not
> too familiar with
> them. But, I didn't think you needed an antenna
> tuner for an 820.
> Doesn't the rig tune up procedure eliminate the need
> for an antenna
> tuner? If it does need a tuner, how would one go
> about connecting the
> AT-250 to the rig?
>
> To me, it makes more sense to use the AT-250 with
> the TS-120, but
> still would like to know how. I couldn't find a
> manual on the
> internet for a TS-120.
>
> If I could build him the right cable(s), that would
> be great. I would
> like to make this work for him on his rigs, or offer
> him his money
> back. Any help would be appreciated.
>
> Best regards,
>
> Doug Behl VE3XDB
>
>
>
>

Low, Low, Low Rates! Check out Yahoo! Messenger's cheap PC-to-Phone call rates
(http://voice.yahoo.com)

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10703. Re: Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 18:28:50 UTC
From: ve3tmt
Topic: 10697 Message: 10703

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:

I looked in the BAMA manuals and no luck there. You could look post the question to eham.net. Search there before you do.

I have e-mail Doug copies of both manuals. The AT250 tuner will work with the 820 although not in automatic mode. The auto mode is bypassed, and while transmitting a small carrier signal, pressing the TUNE button on the AT250 will engage the tuner.

The matching tuner for the TS830 is the AT-230. The AT-200 did not have WARC band coverage.

Max VE3TMT

10704. Re: Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 22:18:40 UTC
From: Doug Behl
Topic: 10697 Message: 10704

Thanks so much for everyone's help. We got the tuner working with the 820, and am now confident he will be able to get it working on his other rigs.

As for me, I'll stick with my TS-440S/AT. You tube guys are way too smart for me!

Cheers,

Doug VE3XDB

--- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@...> wrote:
>
> Hello,
>
> I'm new to the group, joining specifically to get one question
> answered. Searched through the messages, and didn't see a previous
> question of this nature, so here it goes.
>
> I recently sold a Kenwood AT-250 to an elderly gentleman. After he
> received it, he said that he couldn't hook it up to his Kenwood TS-120
> and TS-820 rigs. The AT-250 is made for the 430/440 series of radios.
>
> First off, I don't own either of these rigs, so not too familiar with
> them. But, I didn't think you needed an antenna tuner for an 820.
> Doesn't the rig tune up procedure eliminate the need for an antenna
> tuner? If it does need a tuner, how would one go about connecting the
> AT-250 to the rig?
>
> To me, it makes more sense to use the AT-250 with the TS-120, but
> still would like to know how. I couldn't find a manual on the
> internet for a TS-120.
>
> If I could build him the right cable(s), that would be great. I would
> like to make this work for him on his rigs, or offer him his money
> back. Any help would be appreciated.
>
> Best regards,
>
> Doug Behl VE3XDB
>

10705. Re: [TS-520_820_530_830] email turned off again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 23:40:31 UTC
From: craig harris
Topic: 10688 Message: 10705

hi bill,
i have to reconfirm my yahoo mail for another yahoo
group.

--- Bill Richarz <billn4dh@...> wrote:

> Once again I'm not receiving email from any of my
> yahoo groups. What's my problem?
> tnx
> Bill
>
>
>
>

> Low, Low, Low Rates! Check out Yahoo! Messenger's
> cheap PC-to-Phone call rates
> (http://voice.yahoo.com)
>
>
>
>

> Get your email and see which of your friends are
> online - Right on the New Yahoo.com
> (http://www.yahoo.com/preview)
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 WB7ANU

We have the perfect Group for you. Check out the handy changes to Yahoo! Groups
(http://groups.yahoo.com)

10706. Re: [TS-520_820_530_830] email turned off again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 23:48:32 UTC
From: craig harris
Topic: 10688 Message: 10706

http://groups.yahoo.com/unbounce?adj=126242878,54107&p=1162047597

this is what they sent me SAYING THAT MY E-MAILS WERE
BEING RETURNED.It seem's to be working fine now.

--- Bill Richarz <billn4dh@...> wrote:

> Once again I'm not receiving email from any of my
> yahoo groups. What's my problem?
> tnx
> Bill
>
>
>
>

> Low, Low, Low Rates! Check out Yahoo! Messenger's
> cheap PC-to-Phone call rates
> (http://voice.yahoo.com)
>
>
>
>

> Get your email and see which of your friends are
> online - Right on the New Yahoo.com
> (http://www.yahoo.com/preview)
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 WB7ANU

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates
(http://voice.yahoo.com)

10707. Re: [TS-520_820_530_830] Re: Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-29 23:59:45 UTC
From: John Harp
Topic: 10697 Message: 10707

Good deal and thank you. I thought of the 230 after the writing. Thanks.

ve3tmt <ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:

I looked in the BAMA manuals and no luck there. You could look post the question to eham.net. Search there before you do.

I have e-mail Doug copies of both manuals. The AT250 tuner will work with the 820 although not in automatic mode. The auto mode is bypassed, and while transmitting a small carrier signal, pressing the TUNE button on the AT250 will engage the tuner.

The matching tuner for the TS830 is the AT-230. The AT-200 did not have WARC band coverage.

Max VE3TMT

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10708. Re: [TS-520_820_530_830] Re: Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 00:01:43 UTC
From: John Harp
Topic: 10697 Message: 10708

Remember aone thing about an experience. It's something you get when you didn't get what you wanted. I hope you both got what you wanted. See you on the air and nice to meet you.

Doug Behl <ve3xdb@...> wrote:
Thanks so much for everyone's help. We got the tuner working with the
820, and am now confident he will be able to get it working on his
other rigs.

As for me, I'll stick with my TS-440S/AT. You tube guys are way too
smart for me!

Cheers,

Doug VE3XDB

--- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@...> wrote:
>
> Hello,
>
> I'm new to the group, joining specifically to get one question
> answered. Searched through the messages, and didn't see a previous
> question of this nature, so here it goes.
>
> I recently sold a Kenwood AT-250 to an elderly gentleman. After he
> received it, he said that he couldn't hook it up to his Kenwood TS-120
> and TS-820 rigs. The AT-250 is made for the 430/440 series of radios.
>
> First off, I don't own either of these rigs, so not too familiar with
> them. But, I didn't think you needed an antenna tuner for an 820.
> Doesn't the rig tune up procedure eliminate the need for an antenna
> tuner? If it does need a tuner, how would one go about connecting the
> AT-250 to the rig?
>
> To me, it makes more sense to use the AT-250 with the TS-120, but
> still would like to know how. I couldn't find a manual on the
> internet for a TS-120.
>
> If I could build him the right cable(s), that would be great. I would
> like to make this work for him on his rigs, or offer him his money
> back. Any help would be appreciated.
>
> Best regards,
>
> Doug Behl VE3XDB
>

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10709. Re: [TS-520_820_530_830] email turned off again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 00:08:03 UTC
From: John Harp
Topic: 10688 Message: 10709

It seems to happen when they get a heavy traffic load craig. Although I've only seen it here on this group, but the other ones I belong to don't move as much volume. So they probably aren't moving something when it occurs I guess. Like verticals2, they have a busy month if they got more than 3 postings. But this moves more than 3 just in one day. Another Amps group I belong to may not move for 2 months.

craig harris <rightflyer60@...> wrote:
http://groups.yahoo.com/unbounce?adj=126242878,54107&p=1162047597

this is what they sent me SAYING THAT MY E-MAILS WERE
BEING RETURNED.It seem's to be working fine now.

--- Bill Richarz <billn4dh@...> wrote:

> Once again I'm not receiving email from any of my
> yahoo groups. What's my problem?
> tnx
> Bill
>
>
>
>

> Low, Low, Low Rates! Check out Yahoo! Messenger's
> cheap PC-to-Phone call rates
> (http://voice.yahoo.com)
>
>
>
>

> Get your email and see which of your friends are
> online - Right on the New Yahoo.com
> (http://www.yahoo.com/preview)
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 WB7ANU

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates
(http://voice.yahoo.com)

Get your email and see which of your friends are online - Right on the new Yahoo.com

[Non-text portions of this message have been removed]

10710. Re: Here is an unusual question.....

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 00:23:08 UTC
From: digs4ruff
Topic: 10697 Message: 10710

Manual has been removed as Doug has a copy.
Barry
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> Doug
> Welcome to the list. I think you will find what you want under
> Files/Manuals/AT-250. I just scanned and uploaded it.
> regards
> Barry
> VA7GEM
>
> --- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@>
> wrote:
> >
> > Hello,
> >
> > I'm new to the group, joining specifically to get one question
> > answered. Searched through the messages, and didn't see a
previous
> > question of this nature, so here it goes.
> >
> > I recently sold a Kenwood AT-250 to an elderly gentleman. After
he
> > received it, he said that he couldn't hook it up to his Kenwood
TS-
> 120
> > and TS-820 rigs. The AT-250 is made for the 430/440 series of
> radios.
> >
> > First off, I don't own either of these rigs, so not too familiar
> with
> > them. But, I didn't think you needed an antenna tuner for an
820.
> > Doesn't the rig tune up procedure eliminate the need for an
antenna
> > tuner? If it does need a tuner, how would one go about
connecting
> the
> > AT-250 to the rig?
> >
> > To me, it makes more sense to use the AT-250 with the TS-120, but
> > still would like to know how. I couldn't find a manual on the

> > internet for a TS-120.
> >
> > If I could build him the right cable(s), that would be great. I
> would
> > like to make this work for him on his rigs, or offer him his
money
> > back. Any help would be appreciated.
> >
> > Best regards,
> >
> > Doug Behl VE3XDB
> >
>

10711. If anyone needs a manual, let me know

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 01:55:59 UTC
From: ve3tmt
Topic: 10711 Message: 10711

I have a membership with www.mods.dk, so if anyone needs a manual or schematic let me know. If it is on the site I will download it for you.

Max VE3TMT

10712. Re: [TS-520_820_530_830] email turned off again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 07:40:37 UTC
From: n9wb
Topic: 10688 Message: 10712

It is possible that your mail box is getting full and your messages are "Bouncing". After so many bounces, Yahoo turns your individual e-mails off.

Vy 73, Walt N9WB

----- Original Message -----
From: craig harris
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 29, 2006 6:48 PM
Subject: Re: [TS-520_820_530_830] email turned off again.

http://groups.yahoo.com/unbounce?adj=126242878,54107&p=1162047597

this is what they sent me SAYING THAT MY E-MAILS WERE
BEING RETURNED.It seem's to be working fine now.

--- Bill Richarz <billn4dh@...> wrote:

> Once again I'm not receiving email from any of my
> yahoo groups. What's my problem?
> tnx
> Bill
>
>
>
>

> Low, Low, Low Rates! Check out Yahoo! Messenger's
> cheap PC-to-Phone call rates
> (http://voice.yahoo.com)
>
>
>
>

> Get your email and see which of your friends are
> online - Right on the New Yahoo.com
> (http://www.yahoo.com/preview)
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 WB7ANU

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates

(http://voice.yahoo.com)

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

10713. Re: If anyone needs a manual, let me know

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 16:32:24 UTC
From: james27613
Topic: 10711 Message: 10713

hi,

the 140s manual is available below,

http://www.radioamateur.eu/KENWOOD.html

has many manuals in pdf no cost to ftp / download

the site will accept manuals for everyone to share
including the other big three brands.

73 james

10714. Re: [TS-520_820_530_830] email turned off again.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-30 23:42:55 UTC
From: John Harp
Topic: 10688 Message: 10714

I couldn't believe there were only 8 messages tonight. That hasn't happened since I started this group thing. Craig i'm wondering how many people got bounced this time.

30's is a low number for me. 60's, or 70's is normal and the highest I remember seeing is 170 some thing. Three hours is not unusual to spend working this. What'll I do tonight. Go to bed early? :)

n9wb <n9wb@...> wrote:
It is possible that your mail box is getting full and your messages are "Bouncing". After so many bounces, Yahoo turns your individual e-mails off.

Vy 73, Walt N9WB

----- Original Message -----
From: craig harris
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, October 29, 2006 6:48 PM
Subject: Re: [TS-520_820_530_830] email turned off again.

http://groups.yahoo.com/unbounce?adj=126242878,54107&p=1162047597

this is what they sent me SAYING THAT MY E-MAILS WERE
BEING RETURNED.It seem's to be working fine now.

--- Bill Richarz <billn4dh@...> wrote:

> Once again I'm not receiving email from any of my
> yahoo groups. What's my problem?
> tnx
> Bill
>
>
>
>

> Low, Low, Low Rates! Check out Yahoo! Messenger's
> cheap PC-to-Phone call rates
> (http://voice.yahoo.com)
>
>
>
>

> Get your email and see which of your friends are
> online - Right on the New Yahoo.com
> (http://www.yahoo.com/preview)
>

>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 WB7ANU

_____
Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates
(http://voice.yahoo.com)

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.408 / Virus Database: 268.13.17/505 - Release Date: 10/27/06

[Non-text portions of this message have been removed]

Check out the New Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10715. TS-510 restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 05:15:08 UTC
From: digs4ruff
Topic: 10715 Message: 10715

Just a quick note for anyone interested. I have posted the photos of the before and after for the PS-510 power supply. They are in Photos/VA7GEM.
regards
Barry

10716. No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 12:32:12 UTC
From: Ruben Echevarria
Topic: 10716 Message: 10716

I'm just checking since it seems quite unusual that there are no posts from this group.
I did get a few yesterday, about 3 and that was it.
And my mailbox is not full.. KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

10717. operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 13:30:59 UTC
From: PERRY
Topic: 10717 Message: 10717

Looking for an Operational manual for the DFC230
Frequency controler..any links for one on line ?

Perry WA8THK

10718. Re: [TS-520_820_530_830] No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 13:33:54 UTC
From: Chris HEmbree
Topic: 10716 Message: 10718

I don't see much going on. I belong to two groups not much email at all.
Chris.

Ruben Echevarria <ka2hhb_2000@...> wrote: I'm just checking since it seems quite unusual that there are no posts from this group.
I did get a few yesterday, about 3 and that was it.
And my mailbox is not full.. KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10719. Re: operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 13:52:50 UTC
From: digs4ruff
Topic: 10717 Message: 10719

Perry
The manual & schematics are at
http://www.mods.dk/index.php?ListManuals=kenwood
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, "PERRY" <wa8thk@...> wrote:
>
> Looking for an Operational manual for the DFC230
> Frequency controler..any links for one on line ?
>
> Perry WA8THK
>

10720. Re: AT-250 Tuner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 14:04:31 UTC
From: Bob M
Topic: 10697 Message: 10720

I had one running on a TS-530s no problems It was Din cabled into back of rig. Yes you need to turn off AUTO and be sure that you Turn the power down to 20watts when tuning.

When I got mine a previous owner had made up a push momentary switch and cabled it to a rear din plug to key the rig for tuning.

Boy do I prefer my Ranger SRA-2300 auto Tuner dosn't matter which band if I move a few Khz or Mhz or even Hz when I rekey the mic it takes about 20ms to retune to where I now am on the band.

Regards Bob M

--- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@...> wrote:
>
>
> Thanks so much for everyone's help. We got the tuner working with the
> 820, and am now confident he will be able to get it working on his
> other rigs.
>
> As for me, I'll stick with my TS-440S/AT. You tube guys are way too
> smart for me!
>
> Cheers,
>
> Doug VE3XDB
>
> --- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@> wrote:
> >
> > Hello,
> >
> > I'm new to the group, joining specifically to get one question
> > answered. Searched through the messages, and didn't see a previous
> > question of this nature, so here it goes.
> >
> > I recently sold a Kenwood AT-250 to an elderly gentleman. After he
> > received it, he said that he couldn't hook it up to his Kenwood TS-120
> > and TS-820 rigs. The AT-250 is made for the 430/440 series of radios.

> >
> > First off, I don't own either of these rigs, so not too familiar
with
> > them. But, I didn't think you needed an antenna tuner for an
820.
> > Doesn't the rig tune up procedure eliminate the need for an
antenna
> > tuner? If it does need a tuner, how would one go about
connecting the
> > AT-250 to the rig?
> >
> > To me, it makes more sense to use the AT-250 with the TS-120, but
> > still would like to know how. I couldn't find a manual on the
> > internet for a TS-120.
> >
> > If I could build him the right cable(s), that would be great. I
would
> > like to make this work for him on his rigs, or offer him his
money
> > back. Any help would be appreciated.
> >
> > Best regards,
> >
> > Doug Behl VE3XDB
> >
>

10721. Re: [TS-520_820_530_830] operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 14:53:01 UTC
From: Rick KC0HH
Topic: 10717 Message: 10721

Hi Perry,

I have an excellent copy of one if you can't find one on line.. Send me an address...

73' Rick KC0HH
Lamar, Colorado

PERRY <wa8thk@...> wrote: Looking for an Operational manual for the DFC230
Frequency controler..any links for one on line ?

Perry WA8THK

Get your email and see which of your friends are online - Right on the new Yahoo.com

[Non-text portions of this message have been removed]

10722. Re: operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 16:49:54 UTC
From: Gordon
Topic: 10717 Message: 10722

Perry,
I have the Operations manual and the Schematic files on my kenwood manuals site. Also, I am always looking for more files to add to the site if anyone has any I don't yet have.

www.n6wk.com/kenwood

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "PERRY" <wa8thk@...> wrote:
>
> Looking for an Operational manual for the DFC230
> Frequency controler..any links for one on line ?
>
> Perry WA8THK
>

10723. Re: operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 16:56:59 UTC
From: PERRY
Topic: 10717 Message: 10723

Thanks all for the reply
I have one in the Mail to me now.
I was looking for one on line to look at today and I have one going
to be emailed now also
all set ....

Thanks Again everyone

Perry

wa8thk

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...>
wrote:
>
> Hi Perry,
>
> I have an excellent copy of one if you can't find one on
line.. Send me an address...
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> PERRY <wa8thk@...>
wrote: Looking for
an Operational manual for the DFC230
> Frequency controler..any links for one on line ?
>
> Perry WA8THK
>
>
>
>
>
>
>
> ---------------------------------
> Get your email and see which of your friends are online - Right on
the new Yahoo.com
>
> [Non-text portions of this message have been removed]
>

10724. Re: TS-510 restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 16:58:16 UTC
From: Gordon
Topic: 10715 Message: 10724

Barry,
Very nice Job. Looks GREAT !

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Just a quick note for anyone interested. I have posted the photos of
> the before and after for the PS-510 power supply. They are in
> Photos/VA7GEM.
> regards
> Barry
>

10725. Re: No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 16:59:40 UTC
From: Gordon
Topic: 10716 Message: 10725

Hi Ruben,
I haven't been posting much due to a death in the Family.
Overall posting seems to be down, but It will pick back up.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> I'm just checking since it seems quite unusual that there are no
posts from this group.
> I did get a few yesterday, about 3 and that was it.
> And my mailbox is not full.. KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>

10726. TS-830S For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 17:19:27 UTC
From: jsloss
Topic: 10726 Message: 10726

$300. Please reply off list.

Joe k7mks

[Non-text portions of this message have been removed]

10727. Re: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 17:57:26 UTC
From: Ruben Echevarria
Topic: 10716 Message: 10727

My condolences to you and your family Gordon.
This is trivial compared to family ..... 73 Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, October 31, 2006 11:59:40 AM
Subject: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?

Hi Ruben,
I haven't been posting much due to a death in the Family.
Overall posting seems to be down, but It will pick back up.
73,
Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> I'm just checking since it seems quite unusual that there are no
posts from this group.
> I did get a few yesterday, about 3 and that was it.
> And my mailbox is not full.. KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> 10-10 33308
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

10728. Re: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 18:23:32 UTC
From: N6WK
Topic: 10716 Message: 10728

Thanks For the kind words Ruben.
Yes, this is trivial Compared to family.

73,
Gordon

Ruben Echevarria wrote:

> My condolences to you and your family Gordon.
> This is trivial compared to family ..... 73 Ruben KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> 10-10 33308
>
> ----- Original Message ----
> From: Gordon <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, October 31, 2006 11:59:40 AM
> Subject: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?
>
> Hi Ruben,
> I haven't been posting much due to a death in the Family.
> Overall posting seems to be down, but It will pick back up.
> 73,
> Gordon
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > I'm just checking since it seems quite unusual that there are no
> posts from this group.
> > I did get a few yesterday, about 3 and that was it.
> > And my mailbox is not full.. KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@ ...
> > 10-10 33308
> >
> > [Non-text portions of this message have been removed]
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10729. Contact for W3PLC?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 22:45:28 UTC
From: dsimmons1999
Topic: 10729 Message: 10729

Does anyone have contact info or news about Tim, W3PLC who previously did radio repairs as TD Communication?

His web site is gone, emails to several addresses go unanswered, the phone doesn't pick up, and directory information has no listing.

If you don't feel comfortable giving out any info but can contact him, please ask him to email or phone me (he has my contact information). Hopefully he is OK, but I'd like to discuss the status of my TS-830.

Thanks,

- Dave
W6OT

10730. Re: [TS-520_820_530_830] Contact for W3PLC?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 23:01:05 UTC
From: N6WK
Topic: 10729 Message: 10730

Dave,
I just tried calling tim, But as you found.. No Answer. I dropped him
an Email and asked if all is well.
He calls me from time to time, so we'll see.

73,
Gordon

dsimmons1999 wrote:

> Does anyone have contact info or news about Tim, W3PLC who previously
> did radio repairs as TD Communication?
>
> His web site is gone, emails to several addresses go unanswered, the
> phone doesn't pick up, and directory information has no listing.
>
> If you don't feel comfortable giving out any info but can contact him,
> please ask him to email or phone me (he has my contact information).
> Hopefully he is OK, but I'd like to discuss the status of my TS-830.
>
> Thanks,
>
> - Dave
> W6OT
>
>

[Non-text portions of this message have been removed]

10731. Re: No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 23:54:59 UTC
From: Bob
Topic: 10716 Message: 10731

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:

> Gorden , very bery sorry to hear of ur loss.....BOB N3OO

> My condolences to you and your family Gordon.
> This is trivial compared to family ..... 73 Ruben KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
>
>
> ----- Original Message ----
> From: Gordon <n6wk@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, October 31, 2006 11:59:40 AM
> Subject: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?
>
> Hi Ruben,
> I haven't been posting much due to a death in the Family.
> Overall posting seems to be down, but It will pick back up.
> 73,
> Gordon
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > I'm just checking since it seems quite unusual that there are no
> posts from this group.
> > I did get a few yesterday, about 3 and that was it.
> > And my mailbox is not full.. KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@ ...
> > 10-10 33308
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
> [Non-text portions of this message have been removed]

>

10732. Re: Contact for W3PLC?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-10-31 23:52:52 UTC
From: Bob
Topic: 10729 Message: 10732

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>Hello gang.....u might want to try EHAM reviews.....radio
repair/service....TD COMM.......he has closed his repair shop in the
last few months. I talked to Tim on the phone, he just couldn't stand
the BS anymore.
BOB N3OO
> Dave,
> I just tried calling tim, But as you found.. No Answer. I dropped
him
> an Email and asked if all is well.
> He calls me from time to time, so we'll see.
>
> 73,
> Gordon
>
>
>
> dsimmons1999 wrote:
>
> > Does anyone have contact info or news about Tim, W3PLC who previously
> > did radio repairs as TD Communication?
> >
> > His web site is gone, emails to several addresses go unanswered, the
> > phone doesn't pick up, and directory information has no listing.
> >
> > If you don't feel comfortable giving out any info but can contact him,
> > please ask him to email or phone me (he has my contact information).
> > Hopefully he is OK, but I'd like to discuss the status of my TS-830.
> >
> > Thanks,
> >
> > - Dave
> > W6OT
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10733. Re: [TS-520_820_530_830] Contact for W3PLC?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:06:56 UTC
From: John Harp
Topic: 10729 Message: 10733

I found a website of Dave W3PLC.http://www.zelie.com/~geno/w3plc.htm You may want to check it out.

I haven't seen him for a couple years now. I made a trip to see him once. These pictures are not far off of what his shop is like.

He did my 830.

I've tried to contact him my email a few times. Never heard back. Calledand left a message and no answer when I left a message.

He has been very busy since lightning hit the county communications that one time.

His main stay is the county. It's big bucks and alot of hours.

dsimmons1999 <dave@...> wrote:
Does anyone have contact info or news about Tim, W3PLC who previously
did radio repairs as TD Communication?

His web site is gone, emails to several addresses go unanswered, the
phone doesn't pick up, and directory information has no listing.

If you don't feel comfortable giving out any info but can contact him,
please ask him to email or phone me (he has my contact information).
Hopefully he is OK, but I'd like to discuss the status of my TS-830.

Thanks,

- Dave
W6OT

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10734. Re: [TS-520_820_530_830] Contact for W3PLC?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:16:22 UTC
From: John Harp
Topic: 10729 Message: 10734

After that lightning hit he was very busy with the rebuilding. He mentioned taking a little time off, but couldn't at that time.

An email shoed up one time about lightning hitting his place. It gets bad up where he's at. But his shop has a really good ground system from what I remember. The emails said something about a hit by lightning but if the pictures are recent, I'd doubt it. That looks like the same test bench and equipment as when I was there.

No he's eitherr busy or having a little time off. Tim isn't one to just up and leave someone hanging. There would definitely a reason. I may very well be family. I'm not at liberty to discuss his matters. Remember it's been two years since I've visited him. He's a busy man. If he's backed up it could take a little time.

N6WK <n6wk@...> wrote:
Dave,
I just tried calling tim, But as you found.. No Answer. I dropped him
an Email and asked if all is well.
He calls me from time to time, so we'll see.

73,
Gordon

dsimmons1999 wrote:

> Does anyone have contact info or news about Tim, W3PLC who previously
> did radio repairs as TD Communication?
>
> His web site is gone, emails to several addresses go unanswered, the
> phone doesn't pick up, and directory information has no listing.
>
> If you don't feel comfortable giving out any info but can contact him,
> please ask him to email or phone me (he has my contact information).
> Hopefully he is OK, but I'd like to discuss the status of my TS-830.
>
> Thanks,
>
> - Dave
> W6OT
>
>

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10735. Re: [TS-520_820_530_830] No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:19:43 UTC
From: John Harp
Topic: 10716 Message: 10735

I found it to be the same way Reuben. I came home and answered 3 here and Someone about my transverter stuff on another web mail. I went to bed early last night and it looks that way tonite too.

Ruben Echevarria <ka2hhb_2000@...> wrote: I'm just checking since it seems quite unusual that there are no posts from this group.
I did get a few yesterday, about 3 and that was it.
And my mailbox is not full.. KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10736. Re: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:14:22 UTC
From: N6WK
Topic: 10716 Message: 10736

Thanks Bob.
I appreciate the Kind thoughts and words from everyone.
I will pass them along to my Sister.
You guys are Great !!
73,
Gordon

Bob wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Ruben Echevarria
> <ka2hhb_2000@...> wrote:
>
> > Gorden , very bery sorry to hear of ur loss.....BOB N3OO
>
> > My condolences to you and your family Gordon.
> > This is trivial compared to family ..... 73 Ruben KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@...
> > 10-10 33308
> >
> >
> >
> > ----- Original Message ----
> > From: Gordon <n6wk@...>
> > To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> > Sent: Tuesday, October 31, 2006 11:59:40 AM
> > Subject: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?
> >
> > Hi Ruben,
> > I haven't been posting much due to a death in the Family.
> > Overall posting seems to be down, but It will pick back up.
> > 73,
> > Gordon
> >
> > --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> > <ka2hhb_2000@ ...> wrote:
> > >
> > > I'm just checking since it seems quite unusual that there are no
> > posts from this group.
> > > I did get a few yesterday, about 3 and that was it.
> > > And my mailbox is not full.. KA2HHB
> > >

> > > Ruben Echevarria
> > > ka2hhb_2000@ ...
> > > 10-10 33308
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

10737. Re: [TS-520_820_530_830] operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:31:20 UTC
From: John Harp
Topic: 10717 Message: 10737

Surplus Sales of Nebraska has them posted on their web page for about 20 dollars.

Radio Era Archives is one to check.

www.ManualsParadise.com

That's one you may have to just wait for in the mail. I searched for you and it seems fewa and far between. This is what I found for you. Sorry!

PERRY <wa8thk@...> wrote:
Looking for an Operational manual for the DFC230
Frequency controler..any links for one on line ?

Perry WA8THK

We have the perfect Group for you. Check out the handy changes to Yahoo! Groups.

[Non-text portions of this message have been removed]

10738. Re: [TS-520_820_530_830] No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:35:42 UTC
From: John Harp
Topic: 10716 Message: 10738

Don't feel bad Chris, thge last one I sent you bounced back. How's the Kenwood coming? That's what I wanted to find out.

I've been busy with transverter stuff.

Last night I only had 8 messages on here and one on another web mail from Gene Simmons W3ZZ. Needless to say, I went to bed early. I was wondering who Yahoo bounced this time?

But your right it has been quiet.

Chris HEmbree <w7cth@...> wrote:
I don't see much going on. I belong to two groups not much email at all.
Chris.

Ruben Echevarria <ka2hhb_2000@...> wrote: I'm just checking since it seems quite unusual that there are no posts from this group.
I did get a few yesterday, about 3 and that was it.
And my mailbox is not full.. KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

Get your email and see which of your friends are online - Right on the new Yahoo.com

[Non-text portions of this message have been removed]

10739. Re: [TS-520_820_530_830] operation manual for DFC-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:44:18 UTC
From: N6WK
Topic: 10717 Message: 10739

It's free on my Manuals Site
www.n6wk.com/kenwood
Save $ 20 bucks..

Gordon
N6WK

John Harp wrote:

> Surplus Sales of Nebraska has them posted on their web page for about
> 20 dollars.
>
> Radio Era Archives is one to check.
>
> www.ManualsParadise.com
>
> That's one you may have to just wait for in the mail. I searched for
> you and it seems fewa and far between. This is what I found for you.
> Sorry!
>
> PERRY <wa8thk@... <mailto:wa8thk%40yahoo.com>> wrote:
> Looking for an Operational manual for the DFC230
> Frequency controler..any links for one on line ?
>
> Perry WA8THK
>
> ---
> We have the perfect Group for you. Check out the handy changes to
> Yahoo! Groups.
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

10740. Re: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:45:03 UTC
From: John Harp
Topic: 10716 Message: 10740

Yes my condolances to you also. Yahoo will straighten out soon and all will return to normal.

N6WK <n6wk@...> wrote: Thanks For the kind words Ruben.
Yes, this is trivial Compared to family.

73,
Gordon

Ruben Echevarria wrote:

> My condolences to you and your family Gordon.
> This is trivial compared to family ..... 73 Ruben KA2HHB
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> 10-10 33308
>
> ----- Original Message ----
> From: Gordon <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Tuesday, October 31, 2006 11:59:40 AM
> Subject: [TS-520_820_530_830] Re: No Activity? or is it Yahoo?
>
> Hi Ruben,
> I haven't been posting much due to a death in the Family.
> Overall posting seems to be down, but It will pick back up.
> 73,
> Gordon
>
> --- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
> <ka2hhb_2000@ ...> wrote:
> >
> > I'm just checking since it seems quite unusual that there are no
> posts from this group.
> > I did get a few yesterday, about 3 and that was it.
> > And my mailbox is not full.. KA2HHB
> >
> > Ruben Echevarria
> > ka2hhb_2000@ ...
> > 10-10 33308
> >
> > [Non-text portions of this message have been removed]
> >
>

> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

Get your email and see which of your friends are online - Right on the new Yahoo.com

[Non-text portions of this message have been removed]

10741. Re: [TS-520_820_530_830] Re: AT-250 Tuner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:39:28 UTC
From: John Harp
Topic: 10697 Message: 10741

Yes, that's why I built an antenna a little broader. I have an SGC-239, but I like my Versa tuner 5 more. Sometimes I just bypass it and others I tune and its set for quite a band width.

Bob M <baysideq@...> wrote: I had one running on a TS-530s no problems It was Din cabled into
back of rig. Yes you need to turn off AUTO and be sure that you Turn
the power down to 20watts when tuning.

When I got mine a previous owner had made up a push momentary switch
and cabled it to a rear din plug to key the rig for tuning.

Boy do I prefer my Ranger SRA-2300 auto Tuner dosn't matter which
band if I move a few Khz or Mhz or even Hz when I rekey the mic it
takes about 20ms to retune to where I now am on the band.

Regards Bob M

--- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@...>
wrote:
>
>
> Thanks so much for everyone's help. We got the tuner working with
the
> 820, and am now confident he will be able to get it working on his
> other rigs.
>
> As for me, I'll stick with my TS-440S/AT. You tube guys are way
too
> smart for me!
>
> Cheers,
>
> Doug VE3XDB
>
> --- In TS-520_820_530_830@yahoogroups.com, "Doug Behl" <ve3xdb@>
wrote:
> >
> > Hello,
> >
> > I'm new to the group, joining specifically to get one question
> > answered. Searched through the messages, and didn't see a
previous
> > question of this nature, so here it goes.
> >
> > I recently sold a Kenwood AT-250 to an elderly gentleman. After

he
> > received it, he said that he couldn't hook it up to his Kenwood
TS-120
> > and TS-820 rigs. The AT-250 is made for the 430/440 series of
radios.
> >
> > First off, I don't own either of these rigs, so not too familiar
with
> > them. But, I didn't think you needed an antenna tuner for an
820.
> > Doesn't the rig tune up procedure eliminate the need for an
antenna
> > tuner? If it does need a tuner, how would one go about
connecting the
> > AT-250 to the rig?
> >
> > To me, it makes more sense to use the AT-250 with the TS-120, but
> > still would like to know how. I couldn't find a manual on the
> > internet for a TS-120.
> >
> > If I could build him the right cable(s), that would be great. I
would
> > like to make this work for him on his rigs, or offer him his
money
> > back. Any help would be appreciated.
> >
> > Best regards,
> >
> > Doug Behl VE3XDB
> >
>

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10742. AT-200 basic question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 00:41:06 UTC
From: drewr3227
Topic: 10742 Message: 10742

Hi group,

I joined the group about a month or so back and have been reading all the posts and learning a great deal. I have never worked inside a radio...having said that, I have a TS-520S with the AT-200 antenna tuner and a VFO-520. Here is my very basic question: does the AT-200 have a meter lamp in it? I removed the case and bezel and did not see a lamp or a holder; did I not go far enough in disecting the tuner?

Thanks for your help,
Drew Robinson
N8UXP

10743. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 11:39:05 UTC
From: n9wb
Topic: 9760 Message: 10743

Jim:
Sorry to take so long to get back on this. A very good friend of mine who is a ham just purchased a very expensive Bluebird motor home. He planned to go to the Bluebird convention this weekend. He brought it home and plugged the 50 amp 240 V plug in to the pedestal without turning the breaker off first. He apparently contacted both legs before contacting the neutral. If you know how these are wired you will understand why I have been on a Marathon effort replacing contactors and parts in the inverters to get him on his way. He sailed Sunday for Georgia. I am now catching up on all of my other angry customers whose projects I dropped to get him off to the convention.

The off topic moral, ALWAYS turn the breaker off at the pedestal before connecting the shore line or you will hate it!.

Now back to amplifier linearity.

The output section of most SSB rigs is a linear amplifier. When the load control in a PI network is adjusted for too much capacitance, the output reduces, the gain reduces, but so does the top of the linear region. Unless you drop the drive way down, you are driving the grid to saturation. Intermodulation distortion occurs when more than one frequency signal are present and a non-linearity causes additional frequencies that are sums and differences of these original frequencies.

With RF amplifiers, a common way to adjust them is to use a Two Tone Test. With this test the signal is modulated with two audio tones simultaneously typically around 400 Hz and 1500 Hz. The RF input signal of a amplifier is sampled and applied to the horizontal input of a scope in place of the internal sweep and the output signal is sampled and applied to the vertical input of a scope. A trapezoid pattern is developed that looks much like a diamond. If the corners of the diamond are square and the sides are straight, the amplifier is nice and linear. But if the sides are bowed and the corners are rounded, intermodulation distortion is being generated.

The Kenwood monitor scope and the Yaesu monitor scope are designed for this purpose. When adjusting an amplifier, if I tune it for maximum output with a CW carrier and then check it with a two tone test, I usually see IMD. If I advance the load control slightly clockwise and then repeak the plate control, the pattern becomes clean. But if I change the loading CCW (closing the load capacitor) and repeak the plate or leave the plate as is, the pattern looks horrible.

In our Kenwoods, the 12BY7 drives the S2001/6146 finals. This final stage is a class AB1 linear amplifier. If we were to sample the input and output of the S2001/6146 amplifier stage in the same way, the same thing will occur. Extreme IMD gives your audio a muffled fuzzy sound and these intermodulation

components of the many tone signal, your voice, splatter a considerable distance away from your operating frequency causing harmful interference to other QSOs.

So reducing the output by closing the load capacitor CCW from the peak will increase the IMD.

While some of us tune our amplifiers with a scope and a two tone generator, I don't know of any of us that tune the rig's finals this way. But if the load control is going to be off peak NEVER have it closed more than the peak point. If you want to be a perfectionist, after tuning the rig to max, open the load capacitor clockwise to reduce the CW output by 10% and repeak the tune control. The Plate/cathode current will actually be a bit higher and the efficiency will appear to be a tiny bit lower this way. This is not actually necessary, but never have the load CCW of peak. If there is error, have it in the clockwise direction.

The 10 % trick can be used when loading amplifiers if you do not have a Two Tone test setup.

The ESSB guys often actually occupy less ultimate bandwidth than many hams that do not use wide filters because the ESSB guys are very concerned about IMD. IMD really messes up fidelity. No matter how narrow your filter, If you have IMD in excess of -30 dB down, you are going to be a band hog.

The above information is not true for CW, FM, or high level modulated AM. It is true for low level modulated AM, however.

We sometimes hear on our bands extreme cases where an Amateur sounds good but turns on an amplifier and he is muffled, fuzzy, and splatters. This is often due to IMD because the amplifier is poorly tuned or overdriven. It can also be due to increased RF interference to the audio system that causes IMD in the audio system.

Vy 73, Walt N9WB

----- Original Message -----
From: Jim Wilson
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 26, 2006 9:09 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Could you explain this?

Thanks,

Jim
At 03:52 AM 10/26/2006, you wrote:

>If you are turning the load control counterclockwise to back it
>down, you are degrading the final linearity.
>
>Vy 73, Walt N9WB

10744. Re: TS-510 restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 12:50:59 UTC
From: digs4ruff
Topic: 10715 Message: 10744

Gordon
Thank you.
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Barry,
> Very nice Job. Looks GREAT !
>
> 73,
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@>
> wrote:
> >
> > Just a quick note for anyone interested. I have posted the
photos of
> > the before and after for the PS-510 power supply. They are in
> > Photos/VA7GEM.
> > regards
> > Barry
> >
>

10745. Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 13:08:47 UTC
From: digs4ruff
Topic: 9760 Message: 10745

Walt
Thanks very much. This is the most precise, concise description I have ever seen of the tune up procedure. Might I suggest it be added to the files.
regards
Barry

> Now back to amplifier linearity.
>
> The output section of most SSB rigs is a linear amplifier. When the load
> control in a PI network is adjusted for too much capacitance, the output
> reduces, the gain reduces, but so does the top of the linear region. Unless
> you drop the drive way down, you are driving the grid to saturation.
> Intermodulation distortion occurs when more than one frequency signal are
> present and a non-linearity causes additional frequencies that are sums and
> differences of these original frequencies.
>
> With RF amplifiers, a common way to adjust them is to use a Two Tone Test.
> With this test the signal is modulated with two audio tones simultaneously
> typically around 400 Hz and 1500 Hz. The RF input signal of a amplifier is
> sampled and applied to the horizontal input of a scope in place of the
> internal sweep and the output signal is sampled and applied to the vertical
> input of a scope. A trapezoid pattern is developed that looks much like a
> diamond. If the corners of the diamond are square and the sides are
> straight, the amplifier is nice and linear. But if the sides are bowed and
> the corners are rounded, intermodulation distortion is being generated.
>
> The Kenwood monitor scope and the Yaesu monitor scope are designed for this
> purpose. When adjusting an amplifier, if I tune it for maximum output with a

> CW carrier and then check it with a two tone test, I usually see
IMD. If I
> advance the load control slightly clockwise and then repeak the
plate
> control, the pattern becomes clean. But if I change the loading
CCW
> (closing the load capacitor) and repeak the plate or leave the
plate as is,
> the pattern looks horrible.
>
> In our Kenwoods, the 12BY7 drives the S2001/6146 finals. This
final stage is
> a class AB1 linear amplifier. If we were to sample the input and
output of
> the S2001/6146 amplifier stage in the same way, the same thing
will occur.
> Extreme IMD gives your audio a muffled fuzzy sound and these
intermodulation
> components of the many tone signal, your voice, splatter a
considerable
> distance away from your operating frequency causing harmful
interference to
> other QSOs.
>
> So reducing the output by closing the load capacitor CCW from the
peak will
> increase the IMD.
>
> While some of us tune our amplifiers with a scope and a two tone
generator,
> I don't know of any of us that tune the rig's finals this way. But
if the
> load control is going to be off peak NEVER have it closed more
than the peak
> point. If you want to be a perfectionist, after tuning the rig to
max, open
> the load capacitor clockwise to reduce the CW output by 10% and
repeak the
> tune control. The Plate/cathode current will actually be a bit
higher and
> the efficiency will appear to be a tiny bit lower this way. This
is not
> actually necessary, but never have the load CCW of peak. If there
is error,
> have it in the clockwise direction.
>
> The 10 % trick can be used when loading amplifiers if you do not
have a Two
> Tone test setup.
>

>
> The above information is not true for CW, FM, or high level
modulated AM. It
> is true for low level modulated AM, however.

> Vy 73, Walt N9WB

10746. VFO 240

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 22:27:33 UTC
From: Gordon
Topic: 10746 Message: 10746

I have a very nice VFO 240 I am selling with original Manual and Cable.
It has a few scratches on the sides where it rubbed other gear, but
Overall it is In very Good Shape and Works Great also.

Please contact me OFF list if interested.

Gordon
N6WK

10747. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-01 23:49:12 UTC
From: John Harp
Topic: 9760 Message: 10747

Thank You Walt. I never heard of the 10% rule. I try to remember that. And turn it slightly clockwise and retune it. Thanks.

n9wb <n9wb@...> wrote: Jim:
Sorry to take so long to get back on this. A very good friend of mine who is a ham just purchased a very expensive Bluebird motor home. He planned to go to the Bluebird convention this weekend. He brought it home and plugged the 50 amp 240 V plug in to the pedestal without turning the breaker off first. He apparently contacted both legs before contacting the neutral. If you know how these are wired you will understand why I have been on a Marathon effort replacing contactors and parts in the inverters to get him on his way. He sailed Sunday for Georgia. I am now catching up on all of my other angry customers whose projects I dropped to get him off to the convention.

The off topic moral, ALWAYS turn the breaker off at the pedestal before connecting the shore line or you will hate it!.

Now back to amplifier linearity.

The output section of most SSB rigs is a linear amplifier. When the load control in a PI network is adjusted for too much capacitance, the output reduces, the gain reduces, but so does the top of the linear region. Unless you drop the drive way down, you are driving the grid to saturation. Intermodulation distortion occurs when more than one frequency signal are present and a non-linearity causes additional frequencies that are sums and differences of these original frequencies.

With RF amplifiers, a common way to adjust them is to use a Two Tone Test. With this test the signal is modulated with two audio tones simultaneously typically around 400 Hz and 1500 Hz. The RF input signal of a amplifier is sampled and applied to the horizontal input of a scope in place of the internal sweep and the output signal is sampled and applied to the vertical input of a scope. A trapezoid pattern is developed that looks much like a diamond. If the corners of the diamond are square and the sides are straight, the amplifier is nice and linear. But if the sides are bowed and the corners are rounded, intermodulation distortion is being generated.

The Kenwood monitor scope and the Yaesu monitor scope are designed for this purpose. When adjusting an amplifier, if I tune it for maximum output with a CW carrier and then check it with a two tone test, I usually see IMD. If I advance the load control slightly clockwise and then repeak the plate control, the pattern becomes clean. But if I change the loading CCW (closing the load capacitor) and repeak the plate or leave the plate as is, the pattern looks horrible.

In our Kenwoods, the 12BY7 drives the S2001/6146 finals. This final stage is a class AB1 linear amplifier. If we were to sample the input and output of

the S2001/6146 amplifier stage in the same way, the same thing will occur. Extreme IMD gives your audio a muffled fuzzy sound and these intermodulation components of the many tone signal, your voice, splatter a considerable distance away from your operating frequency causing harmful interference to other QSOs.

So reducing the output by closing the load capacitor CCW from the peak will increase the IMD.

While some of us tune our amplifiers with a scope and a two tone generator, I don't know of any of us that tune the rig's finals this way. But if the load control is going to be off peak NEVER have it closed more than the peak point. If you want to be a perfectionist, after tuning the rig to max, open the load capacitor clockwise to reduce the CW output by 10% and repeak the tune control. The Plate/cathode current will actually be a bit higher and the efficiency will appear to be a tiny bit lower this way. This is not actually necessary, but never have the load CCW of peak. If there is error, have it in the clockwise direction.

The 10 % trick can be used when loading amplifiers if you do not have a Two Tone test setup.

The ESSB guys often actually occupy less ultimate bandwidth than many hams that do not use wide filters because the ESSB guys are very concerned about IMD. IMD really messes up fidelity. No matter how narrow your filter, If you have IMD in excess of -30 dB down, you are going to be a band hog.

The above information is not true for CW, FM, or high level modulated AM. It is true for low level modulated AM, however.

We sometimes hear on our bands extreme cases where an Amateur sounds good but turns on an amplifier and he is muffled, fuzzy, and splatters. This is often due to IMD because the amplifier is poorly tuned or overdriven. It can also be due to increased RF interference to the audio system that causes IMD in the audio system.

Vy 73, Walt N9WB

----- Original Message -----
From: Jim Wilson
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 26, 2006 9:09 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Could you explain this?

Thanks,

Jim
At 03:52 AM 10/26/2006, you wrote:

>If you are turning the load control counterclockwise to back it
>down, you are degrading the final linearity.

>
>Vy 73, Walt N9WB

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10750. Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 05:05:26 UTC
From: Stephen Davis
Topic: 10750 Message: 10750

Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their radio and try to find the second wire and let me know where it is located (I think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

10751. Re: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 05:50:34 UTC
From: Bill Scurlock
Topic: 10750 Message: 10751

Steve.

If you can receive a large photo file by email, send me your personal email address and I will send you a photo that shows where mine is mounted on the bandswitch shaft.

73, Bill, K5GCW
k5gcw@...
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 01, 2006 11:05 PM
Subject: [TS-520_820_530_830] Help with TS-530S

Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their radio and try to find the second wire and let me know where it is located (I think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10752. RE: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 06:59:33 UTC
From: Stephen Davis
Topic: 10750 Message: 10752

Bill,

Thanks! The picture did the trick!

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bill Scurlock
Sent: Wednesday, November 01, 2006 10:51 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Help with TS-530S

Steve.

If you can receive a large photo file by email, send me your personal email address and I will send you a photo that shows where mine is mounted on the bandswitch shaft.

73, Bill, K5GCW
k5gcw@sbcglobal. <mailto:k5gcw%40sbcglobal.net> net
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Wednesday, November 01, 2006 11:05 PM
Subject: [TS-520_820_530_830] Help with TS-530S

Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their

radio and try to find the second wire and let me know where it is located (I think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10753. Re: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 08:09:56 UTC
From: Max Harelik
Topic: 10750 Message: 10753

" I was wondering if anyone knows the purpose of this wire." <snip>

The two wires (~1-1/2" long) are bandswitch shaft tensioner springs. One behind the front panel, & one on the front of the PA cage. There are two stamped tabs on the panel/cage on the left & right sides of the shaft penetration in which to place the ends of the springs. You can reinstall them fairly easily with a small flat screwdriver, but a small pair of needlenose pliers or hemostats makes it less likely that the spring will fly away in the process.

73,
Max, K5OVW

10754. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 08:59:42 UTC
From: n9wb
Topic: 9760 Message: 10754

Actually the 10% rule is my term. and the 10% figure is relative. 5% may work just as well. Don't want to mislead anybody. But the main thing is do NOT have the load to the left (CCW) of the max point. Always keep the tune at max.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 01, 2006 6:49 PM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Thank You Walt. I never heard of the 10% rule. I try to remember that. And turn it slightly clockwise and retune it. Thanks.

n9wb <n9wb@...> wrote: Jim:
Sorry to take so long to get back on this. A very good friend of mine who is a ham just purchased a very expensive Bluebird motor home. He planned to go to the Bluebird convention this weekend. He brought it home and plugged the 50 amp 240 V plug in to the pedestal without turning the breaker off first. He apparently contacted both legs before contacting the neutral. If you know how these are wired you will understand why I have been on a Marathon effort replacing contactors and parts in the inverters to get him on his way. He sailed Sunday for Georgia. I am now catching up on all of my other angry customers whose projects I dropped to get him off to the convention.

The off topic moral, ALWAYS turn the breaker off at the pedestal before connecting the shore line or you will hate it!.

Now back to amplifier linearity.

The output section of most SSB rigs is a linear amplifier. When the load control in a PI network is adjusted for too much capacitance, the output reduces, the gain reduces, but so does the top of the linear region. Unless you drop the drive way down, you are driving the grid to saturation. Intermodulation distortion occurs when more than one frequency signal are present and a non-linearity causes additional frequencies that are sums and differences of these original frequencies.

With RF amplifiers, a common way to adjust them is to use a Two Tone Test. With this test the signal is modulated with two audio tones simultaneously typically around 400 Hz and 1500 Hz. The RF input signal of a amplifier is sampled and applied to the horizontal input of a scope in place of the internal sweep and the output signal is sampled and applied to the vertical input of a scope. A trapezoid pattern is developed that looks much like a diamond. If the corners of the diamond are square and the sides are straight, the amplifier is nice and linear. But if the sides are bowed and

the corners are rounded, intermodulation distortion is being generated.

The Kenwood monitor scope and the Yaesu monitor scope are designed for this purpose. When adjusting an amplifier, if I tune it for maximum output with a CW carrier and then check it with a two tone test, I usually see IMD. If I advance the load control slightly clockwise and then repeak the plate control, the pattern becomes clean. But if I change the loading CCW (closing the load capacitor) and repeak the plate or leave the plate as is, the pattern looks horrible.

In our Kenwoods, the 12BY7 drives the S2001/6146 finals. This final stage is a class AB1 linear amplifier. If we were to sample the input and output of the S2001/6146 amplifier stage in the same way, the same thing will occur. Extreme IMD gives your audio a muffled fuzzy sound and these intermodulation components of the many tone signal, your voice, splatter a considerable distance away from your operating frequency causing harmful interference to other QSOs.

So reducing the output by closing the load capacitor CCW from the peak will increase the IMD.

While some of us tune our amplifiers with a scope and a two tone generator, I don't know of any of us that tune the rig's finals this way. But if the load control is going to be off peak NEVER have it closed more than the peak point. If you want to be a perfectionist, after tuning the rig to max, open the load capacitor clockwise to reduce the CW output by 10% and repeak the tune control. The Plate/cathode current will actually be a bit higher and the efficiency will appear to be a tiny bit lower this way. This is not actually necessary, but never have the load CCW of peak. If there is error, have it in the clockwise direction.

The 10 % trick can be used when loading amplifiers if you do not have a Two Tone test setup.

The ESSB guys often actually occupy less ultimate bandwidth than many hams that do not use wide filters because the ESSB guys are very concerned about IMD. IMD really messes up fidelity. No matter how narrow your filter, If you have IMD in excess of -30 dB down, you are going to be a band hog.

The above information is not true for CW, FM, or high level modulated AM. It is true for low level modulated AM, however.

We sometimes hear on our bands extreme cases where an Amateur sounds good but turns on an amplifier and he is muffled, fuzzy, and splatters. This is often due to IMD because the amplifier is poorly tuned or overdriven. It can also be due to increased RF interference to the audio system that causes IMD in the audio system.

Vy 73, Walt N9WB

----- Original Message -----
From: Jim Wilson
To: TS-520_820_530_830@yahoogroups.com

Sent: Thursday, October 26, 2006 9:09 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Could you explain this?

Thanks,

Jim
At 03:52 AM 10/26/2006, you wrote:

>If you are turning the load control counterclockwise to back it
>down, you are degrading the final linearity.
>
>Vy 73, Walt N9WB

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.21/510 - Release Date: 11/1/06

[Non-text portions of this message have been removed]

10755. Re: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 09:09:23 UTC
From: n9wb
Topic: 10750 Message: 10755

This is a spring. I don't have a 530 here, but it probably goes where the shaft enters the final cage similar to the other one that you found.

Vy 73, Walt N9WB

----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 02, 2006 12:05 AM
Subject: [TS-520_820_530_830] Help with TS-530S

Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their radio and try to find the second wire and let me know where it is located (I think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.21/510 - Release Date: 11/1/06

[Non-text portions of this message have been removed]

10756. RE: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-02 16:20:36 UTC
From: Stephen Davis
Topic: 10750 Message: 10756

Bill, Max, and Walt,

Thanks for the help. I now know what the spring is for and where it goes. I will put it back in place tonight.

73
Steve K7QHU

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Thursday, November 02, 2006 2:09 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Help with TS-530S

This is a spring. I don't have a 530 here, but it probably goes where the shaft enters the final cage similar to the other one that you found.

Vy 73, Walt N9WB

----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Thursday, November 02, 2006 12:05 AM
Subject: [TS-520_820_530_830] Help with TS-530S

Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their radio and try to find the second wire and let me know where it is located (I

think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.21/510 - Release Date: 11/1/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10757. Re: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 01:33:33 UTC
From: John Harp
Topic: 10750 Message: 10757

Hey it's a start Stephen. Here's what I suggest. Tape it or somehow secure it to the inside of the radio so it won't get lost. It's use will show up soon enough. Some one here may know that has a 530. I have 830's so it's not something I could figure out for you. Those might be a hard to replace item, so don't lose it. Alot of things are similar on different models but just in case.

Stephen Davis <sdavis@...> wrote: Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their radio and try to find the second wire and let me know where it is located (I think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

Low, Low, Low Rates! Check out Yahoo! Messenger's cheap PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10758. RE: [TS-520_820_530_830] Help with TS-530S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 01:39:57 UTC
From: John Harp
Topic: 10750 Message: 10758

This is an example of what I mean. It's an active group working together.

Stephen Davis <sdavis@...> wrote: Bill, Max, and Walt,

Thanks for the help. I now know what the spring is for and where it goes. I will put it back in place tonight.

73
Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n9wb
Sent: Thursday, November 02, 2006 2:09 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Help with TS-530S

This is a spring. I don't have a 530 here, but it probably goes where the shaft enters the final cage similar to the other one that you found.

Vy 73, Walt N9WB

----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Thursday, November 02, 2006 12:05 AM
Subject: [TS-520_820_530_830] Help with TS-530S

Hello All,

I just replaced the plastic coupler on the band switch shaft of my TS-530S with a metal one from Ken. The replacement went great and now the band switch is good and tight, with no play. However during the replacement, I was not as observant as I should have been...Rats!! After I had loosened the plastic coupler and slid the shaft forward in order to get the old coupler out, I noticed a bare stiff wire (like an unfolded paper clip) laying on the rf board. This was very puzzling to me, but I picked up and put it aside and finished replacing the coupler. I then tried to figure out were the wire had come from. As I scanned the innards of the radio around the shafts, I finally noticed a similar wire that was between the RIT/IF shaft and the MIC/CAR shaft. It seems to be held in place by tension. I must have inadvertently dislodged the one I found lying on the rf board, but I don't know where it belongs.

I was wondering if anyone knows the purpose of this wire. Also I was hoping that someone with a TS-530S would be kind enough to open up their

radio and try to find the second wire and let me know where it is located (I think it should be somewhere around where the band shaft goes into the finals cage). Although the radio works great after changing the coupler, it still bothers me that I missed something like this. I would like to put the wire back where it belongs!

Thanks

Steve K7QHU

PS It was hard to describe the above clearly. I can take a picture of the wire that came loose and a picture of the other wire in place and post the pictures if that would help.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.21/510 - Release Date: 11/1/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Check out the New Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10759. Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 01:37:52 UTC
From: John Harp
Topic: 9760 Message: 10759

Walt, I'd like to thank you for letting me join this group a few months back. I have learned so much being here. I had 25 years of 830 and didn't know half of what I learned here.

n9wb <n9wb@...> wrote: Actually the 10% rule is my term. and the 10% figure is relative. 5% may work just as well. Don't want to mislead anybody. But the main thing is do NOT have the load to the left (CCW) of the max point. Always keep the tune at max.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 01, 2006 6:49 PM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Thank You Walt. I never heard of the 10% rule. I try to remember that. And turn it slightly clockwise and retune it. Thanks.

n9wb <n9wb@...> wrote: Jim:
Sorry to take so long to get back on this. A very good friend of mine who is a ham just purchased a very expensive Bluebird motor home. He planned to go to the Bluebird convention this weekend. He brought it home and plugged the 50 amp 240 V plug in to the pedestal without turning the breaker off first. He apparently contacted both legs before contacting the neutral. If you know how these are wired you will understand why I have been on a Marathon effort replacing contactors and parts in the inverters to get him on his way. He sailed Sunday for Georgia. I am now catching up on all of my other angry customers whose projects I dropped to get him off to the convention.

The off topic moral, ALWAYS turn the breaker off at the pedestal before connecting the shore line or you will hate it!.

Now back to amplifier linearity.

The output section of most SSB rigs is a linear amplifier. When the load control in a PI network is adjusted for too much capacitance, the output reduces, the gain reduces, but so does the top of the linear region. Unless you drop the drive way down, you are driving the grid to saturation. Intermodulation distortion occurs when more than one frequency signal are present and a non-linearity causes additional frequencies that are sums and differences of these original frequencies.

With RF amplifiers, a common way to adjust them is to use a Two Tone Test. With this test the signal is modulated with two audio tones simultaneously typically around 400 Hz and 1500 Hz. The RF input signal of a amplifier is sampled and applied to the horizontal input of a scope in place of the

internal sweep and the output signal is sampled and applied to the vertical input of a scope. A trapezoid pattern is developed that looks much like a diamond. If the corners of the diamond are square and the sides are straight, the amplifier is nice and linear. But if the sides are bowed and the corners are rounded, intermodulation distortion is being generated.

The Kenwood monitor scope and the Yaesu monitor scope are designed for this purpose. When adjusting an amplifier, if I tune it for maximum output with a CW carrier and then check it with a two tone test, I usually see IMD. If I advance the load control slightly clockwise and then repeak the plate control, the pattern becomes clean. But if I change the loading CCW (closing the load capacitor) and repeak the plate or leave the plate as is, the pattern looks horrible.

In our Kenwoods, the 12BY7 drives the S2001/6146 finals. This final stage is a class AB1 linear amplifier. If we were to sample the input and output of the S2001/6146 amplifier stage in the same way, the same thing will occur. Extreme IMD gives your audio a muffled fuzzy sound and these intermodulation components of the many tone signal, your voice, splatter a considerable distance away from your operating frequency causing harmful interference to other QSOs.

So reducing the output by closing the load capacitor CCW from the peak will increase the IMD.

While some of us tune our amplifiers with a scope and a two tone generator, I don't know of any of us that tune the rig's finals this way. But if the load control is going to be off peak NEVER have it closed more than the peak point. If you want to be a perfectionist, after tuning the rig to max, open the load capacitor clockwise to reduce the CW output by 10% and repeak the tune control. The Plate/cathode current will actually be a bit higher and the efficiency will appear to be a tiny bit lower this way. This is not actually necessary, but never have the load CCW of peak. If there is error, have it in the clockwise direction.

The 10 % trick can be used when loading amplifiers if you do not have a Two Tone test setup.

The ESSB guys often actually occupy less ultimate bandwidth than many hams that do not use wide filters because the ESSB guys are very concerned about IMD. IMD really messes up fidelity. No matter how narrow your filter, If you have IMD in excess of -30 dB down, you are going to be a band hog.

The above information is not true for CW, FM, or high level modulated AM. It is true for low level modulated AM, however.

We sometimes hear on our bands extreme cases where an Amateur sounds good but turns on an amplifier and he is muffled, fuzzy, and splatters. This is often due to IMD because the amplifier is poorly tuned or overdriven. It can also be due to increased RF interference to the audio system that causes IMD in the audio system.

Vy 73, Walt N9WB

----- Original Message -----
From: Jim Wilson
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, October 26, 2006 9:09 AM
Subject: Re: [TS-520_820_530_830] Re: TS-830S Excessive Grid Current

Could you explain this?

Thanks,

Jim
At 03:52 AM 10/26/2006, you wrote:

>If you are turning the load control counterclockwise to back it
>down, you are degrading the final linearity.
>
>Vy 73, Walt N9WB

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.21/510 - Release Date: 11/1/06

[Non-text portions of this message have been removed]

Access over 1 million songs - Yahoo! Music Unlimited Try it today.

[Non-text portions of this message have been removed]

10760. Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 12:26:00 UTC
From: ve3tmt
Topic: 10760 Message: 10760

Does anyone have a source or suggestions on converting the low imoedance output of my audio rack to a high impedance for better coupling to my 830? I realy don't want to part with the rack but feel it suffers somewhat because it is presenting a low impedance to the radio. When I used to use my old MC50 mic, the average level was always higher in the high impendance setting as was the same with my W2IHY box.

Max

10761. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 13:35:35 UTC
From: Phil
Topic: 10760 Message: 10761

Here you go!

http://w2ihy.com/ibox.asp

Someday I will get one for my TS-520SE and my Drake TR-4 so I can use some EQ gear etc.

In fact, I just may add this one to my Christmas list!

Phil Rafuse, VY2PR
PEI Canada

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> Does anyone have a source or suggestions on converting the low
> imoedance output of my audio rack to a high impedance for better
> coupling to my 830? I realy don't want to part with the rack but feel
> it suffers somewhat because it is presenting a low impedance to the
> radio. When I used to use my old MC50 mic, the average level was
> always higher in the high impendance setting as was the same with my
> W2IHY box.
>
> Max
>

10762. RE: [TS-520_820_530_830] Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 13:33:41 UTC
From: Darwin, Keith
Topic: 10760 Message: 10762

Hi Max,

I'm not sure I know the answer but I'll foolishly venture in. That way others who know more will have a good target to shoot at :-)

I'm thinking it doesn't matter. Your "low impedance" audio rack has active circuitry on the output that can generate a voltage into just about any impedance from low to infinite. I doubt that the input impedance of the mic circuit in the 830s is presenting any problems.

I use a behringer mixer to feed my mic input. I get so much out of the behringer that I have to turn it waaaay down to make it work right. When I've fed the signal from the mixer into my compressor and parametric EQ, I recall the level coming out of those units was not as high but was still high enough. In each case, I compensated by just increasing or decreasing the output level of the unit(s) until I got proper ALC indication with the 830s mic gain at about mid scale.

- Keith KD1E -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ve3tmt
Sent: Friday, November 03, 2006 7:26 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Impedance transformers

Does anyone have a source or suggestions on converting the low imoedance output of my audio rack to a high impedance for better coupling to my 830? I realy don't want to part with the rack but feel it suffers somewhat because it is presenting a low impedance to the radio. When I used to use my old MC50 mic, the average level was always higher in the high impendance setting as was the same with my W2IHY box.

Max

Yahoo! Groups Links

10763. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 13:49:43 UTC
From: Phil
Topic: 10760 Message: 10763

I read the manual - online as a PDF - shows the schematic etc. I think it would be easy to build the kit. so I sent an email to Santa [my wife] hinting about the kit.

I recently got a new Behringer mixer board [complete with some fancy EQ capability] at a fire sale price. I have a nice RS by Shure Hi-Ball mic and an EV 664. I also have a RS 10 band per side EQ and an Alesis Nanocompressor. If Santa gets me one, I'll be horsing around with this.

One thing nice about the ibox is that it allows for handy PTT capability.

If Santa does not get me one, I'll likely get one sometime in the new year :)

I like the idea of experimenting with HiFi SSB - you won't find me spending 1000s of dollars like some do. But, using existing gear, it worth spending a little bit of $.

Phil

--- In TS-520_820_530_830@yahoogroups.com, "Phil" <tubesareking@...> wrote:
>
> Here you go!
>
> http://w2ihy.com/ibox.asp
>
> Someday I will get one for my TS-520SE and my Drake TR-4 so I can use
> some EQ gear etc.
>
> In fact, I just may add this one to my Christmas list!
>
> Phil Rafuse, VY2PR
> PEI Canada
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@> wrote:
> >
> > Does anyone have a source or suggestions on converting the low
> > imoedance output of my audio rack to a high impedance for better
> > coupling to my 830? I realy don't want to part with the rack but feel
> > it suffers somewhat because it is presenting a low impedance to

the
> > radio. When I used to use my old MC50 mic, the average level was
> > always higher in the high impendance setting as was the same
with my
> > W2IHY box.
> >
> > Max
> >
>

10764. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 14:33:07 UTC
From: ve3tmt
Topic: 10760 Message: 10764

--- In TS-520_820_530_830@yahoogroups.com, "Phil" <tubesareking@...>
wrote:
>
> Here you go!
>
> http://w2ihy.com/ibox.asp
>
> Someday I will get one for my TS-520SE and my Drake TR-4 so I can use
> some EQ gear etc.
>
> In fact, I just may add this one to my Christmas list!
>
> Phil Rafuse, VY2PR
> PEI Canada

Thanks Phil, I saw the I-Box. I am hoping for a circuit or homebrew to
save $$$

Max VE3TMT

10765. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 14:45:17 UTC
From: ve3tmt
Topic: 10760 Message: 10765

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:
>
> Hi Max,
>
> I'm not sure I know the answer but I'll foolishly venture in. That way
> others who know more will have a good target to shoot at :-)
>
> I'm thinking it doesn't matter. Your "low impedance" audio rack has
> active circuitry on the output that can generate a voltage into just
> about any impedance from low to infinite. I doubt that the input
> impedance of the mic circuit in the 830s is presenting any problems.
>
> I use a behringer mixer to feed my mic input. I get so much out of the
> behringer that I have to turn it waaaay down to make it work right.
> When I've fed the signal from the mixer into my compressor and
> parametric EQ, I recall the level coming out of those units was not as
> high but was still high enough. In each case, I compensated by just
> increasing or decreasing the output level of the unit(s) until I got
> proper ALC indication with the 830s mic gain at about mid scale.
>
> - Keith KD1E -

Hi Keith,

My voice will still hit 100W peaks or so but the average power is way
down. I know it is due to the impedance mismatch because I
experimented with my MC50 mic. The average RF output was much higher
when I had the mic set on high impedance.

Max VE3TMT

10766. Re: [TS-520_820_530_830] Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 15:11:56 UTC
From: Rick KC0HH
Topic: 10760 Message: 10766

Hi Max,

Yahoo is chopping of the URL ...I will send them direct.

73' Rick

ve3tmt <ve3tmt@...> wrote: -
Hi Keith,

My voice will still hit 100W peaks or so but the average power is way
down. I know it is due to the impedance mismatch because I
experimented with my MC50 mic. The average RF output was much higher
when I had the mic set on high impedance.

Max VE3TMT

We have the perfect Group for you. Check out the handy changes to Yahoo! Groups.

[Non-text portions of this message have been removed]

10767. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 15:13:49 UTC
From: ve3tmt
Topic: 10760 Message: 10767

--- In TS-520_820_530_830@yahoogroups.com, "Phil" <tubesareking@...>
wrote:
>
> I read the manual - online as a PDF - shows the schematic etc. I
> think it would be easy to build the kit. so I sent an email to
> Santa [my wife] hinting about the kit.

I looked at the schematic Phil, and I don't think it will do as an impedance transformer. The transformer has a 1:1 ratio. Still 600 ohm on the secondary. It looks more like an isolator with level control.
>
> I recently got a new Behringer mixer board [complete with some fancy
> EQ capability] at a fire sale price. I have a nice RS by Shure Hi-
> Ball mic and an EV 664. I also have a RS 10 band per side EQ and an
> Alesis Nanocompressor. If Santa gets me one, I'll be horsing around
> with this.

The Behringer mixer/EQ units do an okay job but I think they only have low, med and high EQ adjustments. I used to use a 602. You will get much finer sound from a dedicated EQ unit like the PEQ-2200. The RS 10 band per side unit sounds like a stereo EQ and is really not suited for SSB work. The adjustment ranges on it are much higher than you will ever encounter in voice work. The highest you need for the SSB is around 4K. The stereo units typically go as high as 20K.

> I like the idea of experimenting with HiFi SSB - you won't find me
> spending 1000s of dollars like some do. But, using existing gear,
> it worth spending a little bit of $.

I've fiddled with everything from FT920's, TS850's, TS570's and now the 830 and you can with the right mods make any radio sound good. I don't expect it to sound like an FT9000 but for the small investment I make I think the result is well worth it.

In looking at the specs on my 2200 EQ, it has a high impedance input and only a 60 ohm output. I am feeding the input with a low impedance output from my VX200 into the high impedance input on the EQ and the low impedance output into the high impedance input on the 830. It couldn't get any worse!! I would be better off to sell it all and use a high impedance mic straight into the radio.

Max

10768. Re: [TS-520_820_530_830] Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 15:09:51 UTC
From: Rick KC0HH
Topic: 10760 Message: 10768

Hi Max,

Would one of these work?

http://www.radioshack.com/product/index.jsp?productId=2062443&cp=&origkw=impedance+transformer&kw=impedance+transformer&parentPage=search
http://www.radioshack.com/product/index.jsp?parentPage=search&summary=summary&cp=&accessories=accessories&productId=2103254&kw=impedance+transformer&techSpecs=techSpecs¤tTab=techSpecs&custRatings=custRatings&features=features&origkw=impedance+transformer&support=support&tab=features

73' Rick KC0HH

ve3tmt <ve3tmt@...> wrote: -

Hi Keith,

My voice will still hit 100W peaks or so but the average power is way
down. I know it is due to the impedance mismatch because I
experimented with my MC50 mic. The average RF output was much higher
when I had the mic set on high impedance.

Max VE3TMT

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10769. RE: [TS-520_820_530_830] Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 18:08:29 UTC
From: Darwin, Keith
Topic: 10760 Message: 10769

Well, I suppose it could be impedance but I'm just can't see how. The active output stages of the rack gear will drive 600 ohm loads as easily as 100 K ohm loads. The mic however, will definitely drive different loads differently since it can't change it's power.

I've seen this when hooking an electric guitar up to a mixing board. Plug the guitar into the board and the sound becomes dull, and thin at the same time as the low impedance input on the board loads down the electro-mechanical pickups. Plug my bass (which has an on-board preamp) into the same board and the op-amp in the bass drive full voltage into the board giving me full rich sound, just like I get when plugging the bass into my bass amp who's input impedance is 1 megaohm.

You say you get different average RF output with the mic. Hmm, could there be a natural compression happening in the mic? If the mic were non linear and compressed things then you'd indeed see what you've described. Have you hooked the MC50 up through the rack gear to see if the same mic through a different signal path gives the same results?

- Keith -

-----Original Message-----

My voice will still hit 100W peaks or so but the average power is way down. I know it is due to the impedance mismatch because I experimented with my MC50 mic. The average RF output was much higher when I had the mic set on high impedance.

Max VE3TMT

10770. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 19:31:21 UTC
From: ve3tmt
Topic: 10760 Message: 10770

Just an FYI, I picked up an inline impedance transformer (Hosa) at a local music shop. It has a female XLR connector on the low side that plugs right into the EQ output. The hi side (10K ohm) is a 1/4" plug. I made a patch cord and plugged it into the 830's modulator feed. I noticed an immediate difference in the freq response and the feedback from the monitor was gone. Just to confirm I bypassed the transformer and the audio became very dull and the feedback returned.

Cost about $20 CDN.

Max VE3TMT

10771. RE: [TS-520_820_530_830] Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 19:50:49 UTC
From: Darwin, Keith
Topic: 10760 Message: 10771

Oh, *great*, now you're actually producing EVIDENCE that I'm wrong!

LOL!

Glad to hear it Max. Where are you feeding the audio into your rig? Are you bypassing the mic connector on the front and going straight to the balanced modulator or something like that? I wonder what effect the impedance of your sound source has on the balanced modulator. Maybe the issue is that having a low Z thing connected to the balanced modulator was messing it up??? I should be careful here. The more I guess, the wronger I become :-)

I think I have one of those transformers. XLR on one end, 1/4" on the other, cylindrical shape. We tried some in the early days of "the band" as direct boxes but they didn't sound nearly as good as a real direct box so they got set aside very quickly.

73!

- Keith -

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ve3tmt
Sent: Friday, November 03, 2006 2:31 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Impedance transformers

Just an FYI, I picked up an inline impedance transformer (Hosa) at a local music shop. It has a female XLR connector on the low side that plugs right into the EQ output. The hi side (10K ohm) is a 1/4" plug. I made a patch cord and plugged it into the 830's modulator feed. I noticed an immediate difference in the freq response and the feedback from the monitor was gone. Just to confirm I bypassed the transformer and the audio became very dull and the feedback returned.

Cost about $20 CDN.

Max VE3TMT

10772. Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 21:00:33 UTC
From: wayneg
Topic: 10772 Message: 10772

Hello,
I have an Astatic D-104 which is non-amplified I would like to wire
for my Kenwood TS-520. Would anyone have a diagram for this available?
Also have to have the phone plug for the rig. Could anyone tell me
where to get one of those?
Thanks.

Wayne

10773. Re: [TS-520_820_530_830] Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 21:10:00 UTC
From: Troy, W6HV
Topic: 10772 Message: 10773

Wayne,
Try this out : http://www.qsl.net/wa2mzf/d104.html<http://www.qsl.net/wa2mzf/d104.html>
He's got a lot of good info on the D-104.
73,
Troy
----- Original Message -----
From: wayneg<mailto:wayne15857@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Friday, November 03, 2006 1:00 PM
Subject: [TS-520_820_530_830] Astatic D-104 and TS-520

Hello,
I have an Astatic D-104 which is non-amplified I would like to wire
for my Kenwood TS-520. Would anyone have a diagram for this available?
Also have to have the phone plug for the rig. Could anyone tell me
where to get one of those?
Thanks.

Wayne

Yahoo! Groups Links

[Non-text portions of this message have been removed]

10774. Re: [TS-520_820_530_830] Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 21:07:41 UTC
From: Ruben Echevarria
Topic: 10772 Message: 10774

Try www.buxcomm.com for the plug they may also have the cable.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: wayneg <wayne15857@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 3, 2006 4:00:33 PM
Subject: [TS-520_820_530_830] Astatic D-104 and TS-520

Hello,
I have an Astatic D-104 which is non-amplified I would like to wire
for my Kenwood TS-520. Would anyone have a diagram for this available?
Also have to have the phone plug for the rig. Could anyone tell me
where to get one of those?
Thanks.

Wayne

[Non-text portions of this message have been removed]

10775. Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-03 21:26:58 UTC
From: ve3tmt
Topic: 10760 Message: 10775

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith"
<keith.darwin@...> wrote:
>
> Oh, *great*, now you're actually producing EVIDENCE that I'm wrong!
>
> LOL!
>
> Glad to hear it Max. Where are you feeding the audio into your rig?
> Are you bypassing the mic connector on the front and going straight to
> the balanced modulator or something like that? I wonder what effect the
> impedance of your sound source has on the balanced modulator. Maybe the
> issue is that having a low Z thing connected to the balanced modulator
> was messing it up??? I should be careful here. The more I guess, the
> wronger I become :-)
>
> I think I have one of those transformers. XLR on one end, 1/4" on the
> other, cylindrical shape. We tried some in the early days of "the band"
> as direct boxes but they didn't sound nearly as good as a real direct
> box so they got set aside very quickly.
>
> 73!
>
> - Keith -

Keith,

I feed the audio directly through a 4.7uf cap to the balanced
modulator diodes, which have been replaced with new ones. Not sure
what was causing what but in my hurried "lunch hour" testing session
it did sound better. Of course I will do more serious testing tonight.
The piece you describe is right on the money. Female XLR on one end
and 1/4" plug on the other.

Max

10776. Re: [TS-520_820_530_830] Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 00:33:05 UTC
From: John Harp
Topic: 10760 Message: 10776

That's probably because the mic was originally made to be used between both kinds of radio inputs. For the Kenwood 830 for example it used the high impedance, like many other older radios of the tube vintage.

As you'll remember the comperssor would be set at about 20 dB's on the meter deflection. That was considered a good setting without overdrive. That's because of the high impedance microphone.

You could try to match that impedance of the rack to the high impedance of the radio. Look in the manual for the radio and the manual for the microphone. They should tell you an impedance value. Try to match that value. Maybe say it's say 600 ohms. Then 600 is your aim. Then look for a transformer of that value.

Do remember that how ever good the rack is the output may be limited by the circuits.

I asked the same question one time as you are now max. Back when my hearing was a little better.

ve3tmt <ve3tmt@...> wrote:
Does anyone have a source or suggestions on converting the low
imoedance output of my audio rack to a high impedance for better
coupling to my 830? I realy don't want to part with the rack but feel
it suffers somewhat because it is presenting a low impedance to the
radio. When I used to use my old MC50 mic, the average level was
always higher in the high impendance setting as was the same with my
W2IHY box.

Max

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10777. Re: Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 04:03:13 UTC
From: wayneg
Topic: 10772 Message: 10777

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> Try www.buxcomm.com for the plug they may also have the cable.
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
Ruben,
Appreciate the info and will add that to my favorites to check out.
Wayne
>
>
> ----- Original Message ----
> From: wayneg <wayne15857@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Friday, November 3, 2006 4:00:33 PM
> Subject: [TS-520_820_530_830] Astatic D-104 and TS-520
>
> Hello,
> I have an Astatic D-104 which is non-amplified I would like to wire
> for my Kenwood TS-520. Would anyone have a diagram for this
available?
> Also have to have the phone plug for the rig. Could anyone tell me
> where to get one of those?
> Thanks.
>
> Wayne
>
>
>
>
> [Non-text portions of this message have been removed]
>

10778. Re: Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 04:00:47 UTC
From: wayneg
Topic: 10772 Message: 10778

--- In TS-520_820_530_830@yahoogroups.com, "Troy, W6HV" <w6hv@...>
wrote:
>
> Wayne,
> Try this out :
http://www.qsl.net/wa2mzf/d104.html<http://www.qsl.net/wa2mzf/d104.htm
l>
> He's got a lot of good info on the D-104.
> 73,
> Troy

Troy,
Thanks for the info and will check those sites out.
Wayne
> ----- Original Message -----
> From: wayneg<mailto:wayne15857@...>
> To: TS-520_820_530_830@yahoogroups.com<mailto:TS-
520_820_530_830@yahoogroups.com>
> Sent: Friday, November 03, 2006 1:00 PM
> Subject: [TS-520_820_530_830] Astatic D-104 and TS-520
>
>
> Hello,
> I have an Astatic D-104 which is non-amplified I would like to
wire
> for my Kenwood TS-520. Would anyone have a diagram for this
available?
> Also have to have the phone plug for the rig. Could anyone tell
me
> where to get one of those?
> Thanks.
>
> Wayne
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

> [Non-text portions of this message have been removed]
>

10779. Re: [TS-520_820_530_830] Re: Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 04:14:47 UTC
From: Ruben Echevarria
Topic: 10772 Message: 10779

No problem Wayne, Hope it helps 73

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: wayneg <wayne15857@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 3, 2006 11:03:13 PM
Subject: [TS-520_820_530_830] Re: Astatic D-104 and TS-520

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Try www.buxcomm. com for the plug they may also have the cable.
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> 10-10 33308
>
Ruben,
Appreciate the info and will add that to my favorites to check out.
Wayne
>
>
> ----- Original Message ----
> From: wayneg <wayne15857@ ...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Friday, November 3, 2006 4:00:33 PM
> Subject: [TS-520_820_ 530_830] Astatic D-104 and TS-520
>
> Hello,
> I have an Astatic D-104 which is non-amplified I would like to wire
> for my Kenwood TS-520. Would anyone have a diagram for this
available?
> Also have to have the phone plug for the rig. Could anyone tell me
> where to get one of those?
> Thanks.
>
> Wayne
>
>
>
>
> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

10780. Re: [TS-520_820_530_830] Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 09:02:45 UTC
From: n9wb
Topic: 10760 Message: 10780

Max:

What is the last item that is feeding your 830? Are you feeding the balanced modulator to the mike input ?

Impedance matching is not always necessary. If there is plenty of level available, a higher impedance driven by a lower source impedance is not a problem.

With the MC-50 mike, the higher impedance worked better because the voltage was higher. Tell us more about what you are doing.

A transformer that goes from 600 ohms to 10 K will transform the impedance. But it may not be necessary.

Vy 73, Walt N9WB

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 03, 2006 7:26 AM
Subject: [TS-520_820_530_830] Impedance transformers

Does anyone have a source or suggestions on converting the low
imoedance output of my audio rack to a high impedance for better
coupling to my 830? I realy don't want to part with the rack but feel
it suffers somewhat because it is presenting a low impedance to the
radio. When I used to use my old MC50 mic, the average level was
always higher in the high impendance setting as was the same with my
W2IHY box.

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.25/515 - Release Date: 11/3/06

[Non-text portions of this message have been removed]

10781. Re: [TS-520_820_530_830] Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 09:13:28 UTC
From: n9wb
Topic: 10760 Message: 10781

OK Max, probably the transformer is acting as an RF choke as well as stepping up the voltage. If it is a good quality transformer and it seems that it is, it probably is your best bet because of it's ability to suppress RF. Glad you got it worked out, hope to hear you on soon.

Vy 73, Walt N9WB

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 03, 2006 2:31 PM
Subject: [TS-520_820_530_830] Re: Impedance transformers

Just an FYI, I picked up an inline impedance transformer (Hosa) at a local music shop. It has a female XLR connector on the low side that plugs right into the EQ output. The hi side (10K ohm) is a 1/4" plug. I made a patch cord and plugged it into the 830's modulator feed. I noticed an immediate difference in the freq response and the feedback from the monitor was gone. Just to confirm I bypassed the transformer and the audio became very dull and the feedback returned.

Cost about $20 CDN.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.25/515 - Release Date: 11/3/06

[Non-text portions of this message have been removed]

10782. Re: [TS-520_820_530_830] Astatic D-104 and TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 10:55:08 UTC
From: n9wb
Topic: 10772 Message: 10782

I assume that you have a 4 wire cord on it ?

See page 7 of your Kwnwood TS-820 owner's manual.

Pin 1 on your mike plug connects to the white wire from your D-104.
Pin 2 connects to the red wire.
Pin 3 connects to the Black wire
Pin 4 connects to the shield wire.

Place some shrink tubing or use tape so the shield does not contact the microphone plug shell.

If this does not work, or if your cord is different, contact us. We will figure it out.

I purchased some 4 pin plugs at Dayton this year that were numbered backwards. The picture on page 7 is the view of the plug from the wire connections as though it was plugged into the radio.

Vy 73, Walt N9WB

----- Original Message -----
From: wayneg
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 03, 2006 4:00 PM
Subject: [TS-520_820_530_830] Astatic D-104 and TS-520

Hello,
I have an Astatic D-104 which is non-amplified I would like to wire
for my Kenwood TS-520. Would anyone have a diagram for this available?
Also have to have the phone plug for the rig. Could anyone tell me
where to get one of those?
Thanks.

Wayne

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.25/515 - Release Date: 11/3/06

[Non-text portions of this message have been removed]

10783. Microphone groups

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 13:48:05 UTC
From: n9wb
Topic: 10783 Message: 10783

As most of you know, I am very friendly to Amateur Radio Audio and ESSB. I am also friendly to AM.

However, when traffic gets off topic for too long, it discourages members that are here for the more specific reasons for this group, the use and maintenance of TS 510, 520, 820, 530, and 830s.

We have two Yahoo groups. One is KenwoodMics the other is Astatic Microphones. Amateur radio audio in general, including but not limited to ESSB is welcome on these groups.

I would like to recommend that those of you who are interested in the audio quality of your signals join these groups. When a audio, microphone, or ESSB topic becomes extended, I recommend that we take it to one of these other groups. This way we can keep this group more focused on repairs and maintenance of Kenwood Hybrids.

Please understand, I am not in any way trying to discourage Fantastic Amateur Radio Audio. I live for it. I just want to keep everything in it's proper slot so to speak.

These groups are low traffic groups so they usually will not overload your mail box.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

10784. TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 13:53:11 UTC
From: Kevin Keyes
Topic: 10784 Message: 10784

I have been having difficulty tuning up on 40 meters using K4EAA's tuning instructions. When the mode is switched to CW and I dip the plate with the meter at the LP setting the meters reads 350 mA. This is with the load set to minimum. I don't have this problem on the other bands. Am I doing something wrong or is this a normal reading for this band.

Thanks for your help.

Kevin, KI4KFS

10785. Re: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 14:14:42 UTC
From: John Harp
Topic: 10784 Message: 10785

Kevin, Do you have your manual for the 830? The instructions you need are in there. First, make sure your Ip is set right. Second, make sure your on a dummy load. Sometimes I've found an antenna to be a little hairy to tune to. Third, I often times make sure that in recieve mode I can hear the most noise by moving the last knob to the right, adjusting it for maximum noise. That part is most of the way tuned for you.

Try these first and see what you get. I often thougfht something was wrong too. Try it and get back with these results.

Remember, a dummy load or something broad enough to tune to. it's already a proper match of 50 ohms.And to listen to the recieve and adjust the drive knob. Load and plate will come easier to you in the normal process.

Do it see what it does. I'll lok back later today to see the results.

Kevin Keyes <kskeye@...> wrote:
I have been having difficulty tuning up on 40 meters using K4EAA's
tuning instructions. When the mode is switched to CW and I dip the
plate with the meter at the LP setting the meters reads 350 mA. This
is with the load set to minimum. I don't have this problem on the
other bands. Am I doing something wrong or is this a normal reading
for this band.

Thanks for your help.

Kevin, KI4KFS

Check out the New Yahoo! Mail - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

10786. Re: [TS-520_820_530_830] Re: Impedance transformers

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 14:38:21 UTC
From: John Harp
Topic: 10760 Message: 10786

A transformer will also act like a low pass filter too in it's characteristics. typical of inductors in general. Something to remember.

n9wb <n9wb@...> wrote: OK Max, probably the transformer is acting as an RF choke as well as stepping up the voltage. If it is a good quality transformer and it seems that it is, it probably is your best bet because of it's ability to suppress RF. Glad you got it worked out, hope to hear you on soon.

Vy 73, Walt N9WB

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 03, 2006 2:31 PM
Subject: [TS-520_820_530_830] Re: Impedance transformers

Just an FYI, I picked up an inline impedance transformer (Hosa) at a
local music shop. It has a female XLR connector on the low side that
plugs right into the EQ output. The hi side (10K ohm) is a 1/4" plug.
I made a patch cord and plugged it into the 830's modulator feed. I
noticed an immediate difference in the freq response and the feedback
from the monitor was gone. Just to confirm I bypassed the transformer
and the audio became very dull and the feedback returned.

Cost about $20 CDN.

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.25/515 - Release Date: 11/3/06

[Non-text portions of this message have been removed]

Access over 1 million songs - Yahoo! Music Unlimited Try it today.

[Non-text portions of this message have been removed]

10787. TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 14:36:53 UTC
From: w5rkl
Topic: 10784 Message: 10787

Kevin,

Tuning up on 40 meters is no different than any other band, the procedure is the same. However, tuning the transmitter should be carried out with the mode switch in "TUNE" not "CW". You didn't state how high the "CAR" control was set.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Kevin, Do you have your manual for the 830? The instructions you need are in there. First, make sure your Ip is set right. Second, make sure your on a dummy load. Sometimes I've found an antenna to be a little hairy to tune to. Third, I often times make sure that in recieve mode I can hear the most noise by moving the last knob to the right, adjusting it for maximum noise. That part is most of the way tuned for you.
>
> Try these first and see what you get. I often thougfht something was wrong too. Try it and get back with these results.
>
> Remember, a dummy load or something broad enough to tune to. it's already a proper match of 50 ohms.And to listen to the recieve and adjust the drive knob. Load and plate will come easier to you in the normal process.
>
> Do it see what it does. I'll lok back later today to see the results.
>
> Kevin Keyes <kskeye@...> wrote:
> I have been having difficulty tuning up on 40 meters using K4EAA's
> tuning instructions. When the mode is switched to CW and I dip the
> plate with the meter at the LP setting the meters reads 350 mA. This
> is with the load set to minimum. I don't have this problem on the
> other bands. Am I doing something wrong or is this a normal reading
> for this band.
>
> Thanks for your help.
>
> Kevin, KI4KFS
>
>

>
>
>
>
> ---------------------------------
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]
>

10788. Fwd: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 15:05:02 UTC
From: kc2aup@arrl.net
Topic: 10788 Message: 10788

Question.....

If the tuning is the same for each band, does it really matter if the radio
is in the "TUNE" position?
I have always tuned up in the "CW" position without any problems.

Frank
KC2AUP

[Non-text portions of this message have been removed]

10789. Re: [TS-520_820_530_830] Microphone groups

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 16:19:41 UTC
From: n9wb
Topic: 10783 Message: 10789

This post was not directed to any individual. I simply would like to see our other groups build up and do not want to discourage those who receive individual e-mails but are not interested in specific audio topics from becoming discouraged. Some people are audio crazed like me, some are not. So if you are like me, please join KenwoodMics and AstaticMicrophones.

Nobody did anything wrong. No problem!

Vy 73, Walt N9WB

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 04, 2006 8:48 AM
Subject: [TS-520_820_530_830] Microphone groups

As most of you know, I am very friendly to Amateur Radio Audio and ESSB. I am also friendly to AM.

However, when traffic gets off topic for too long, it discourages members that are here for the more specific reasons for this group, the use and maintenance of TS 510, 520, 820, 530, and 830s.

We have two Yahoo groups. One is KenwoodMics the other is Astatic Microphones. Amateur radio audio in general, including but not limited to ESSB is welcome on these groups.

I would like to recommend that those of you who are interested in the audio quality of your signals join these groups. When a audio, microphone, or ESSB topic becomes extended, I recommend that we take it to one of these other groups. This way we can keep this group more focused on repairs and maintenance of Kenwood Hybrids.

Please understand, I am not in any way trying to discourage Fantastic Amateur Radio Audio. I live for it. I just want to keep everything in it's proper slot so to speak.

These groups are low traffic groups so they usually will not overload your mail box.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.27/517 - Release Date: 11/3/06

[Non-text portions of this message have been removed]

10790. Fwd: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 16:30:37 UTC
From: Clif
Topic: 10788 Message: 10790

It's your finals. BUT

By using the Tune position the potential damage to the tubes by
initially being in a non-resonate situation is greatly reduced.

In the FWIW dept my procedure is;

1. Set Bandswitch to band of interest.
2. Preset the load counterclockwise to the stop and the plate to the
middle of the matching band marking behind the plate control.
3. Key radio & check idling current for 60ma in SSB, meter in IP.
4. Go to Tune position and meter to ALC. Key radio and turn up carrier

control for an ALC reading, peak reading with drive control. Unkey
5. Meter to IP, key radio and dip the current using the Plate control.
Unkey
6. Mode to CW, key the radio and adjust load for 200ma and dip with
the plate. Unkey. Repeat.
7. Once the dip is at 200ma move the meter to RF and alternately
adjust the load and plate for max. Final adjustment made with the
load control for a slight reduction in power.

It takes longer to read all this than it does to do it once you get
used to it. If you have an external wattmeter you can use it to tune
for max power instead of the RF position of the internal meter.

Clif

--- In TS-520_820_530_830@yahoogroups.com, kc2aup@... wrote:
>
> Question.....
>
> If the tuning is the same for each band, does it really matter if
the radio
> is in the "TUNE" position?
> I have always tuned up in the "CW" position without any problems.
>
> Frank
> KC2AUP
>
>
> [Non-text portions of this message have been removed]
>

10791. TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 18:43:35 UTC
From: Kevin Keyes
Topic: 10784 Message: 10791

Thanks for the reply. I have the 830 manual and have followed that. I begin by setting the mode to Tune and also use a dummy load. Once I have peaked the drive and dipped the plate in Tune mode (mA reading is about 150) using the appropriate meter settings I then switch the mode to CW and close the straight key to generate a tone. Now, when I attempt to dip the plate with the meter switch on the IP setting I can't get below 350 mA even with the load at the minimum setting. Adjusting the carrier ring has no effect on the meter.

Thanks again for the help

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Kevin, Do you have your manual for the 830? The instructions you need are in there. First, make sure your Ip is set right. Second, make sure your on a dummy load. Sometimes I've found an antenna to be a little hairy to tune to. Third, I often times make sure that in recieve mode I can hear the most noise by moving the last knob to the right, adjusting it for maximum noise. That part is most of the way tuned for you.
>
> Try these first and see what you get. I often thougfht something was wrong too. Try it and get back with these results.
>
> Remember, a dummy load or something broad enough to tune to. it's already a proper match of 50 ohms.And to listen to the recieve and adjust the drive knob. Load and plate will come easier to you in the normal process.
>
> Do it see what it does. I'll lok back later today to see the results.
>
> Kevin Keyes <kskeye@...> wrote:
> I have been having difficulty tuning up on 40 meters using K4EAA's
> tuning instructions. When the mode is switched to CW and I dip the
> plate with the meter at the LP setting the meters reads 350 mA. This
> is with the load set to minimum. I don't have this problem on the
> other bands. Am I doing something wrong or is this a normal reading
> for this band.
>
> Thanks for your help.

>
> Kevin, KI4KFS
>
>
>
>
>
>
> ---
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]
>

10792. Re: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-04 19:23:42 UTC
From: Another Old Codger
Topic: 10784 Message: 10792

You may have the 'dreaded' broken coupler on the Band Switch!! It can give symptoms such as this.

Just a thought,

Ron G8URU

----- Original Message -----
From: "Kevin Keyes" <kskeye@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, November 04, 2006 6:43 PM
Subject: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Thanks for the reply. I have the 830 manual and have followed that. I begin by setting the mode to Tune and also use a dummy load. Once I have peaked the drive and dipped the plate in Tune mode (mA reading is about 150) using the appropriate meter settings I then switch the mode to CW and close the straight key to generate a tone. Now, when I attempt to dip the plate with the meter switch on the IP setting I can't get below 350 mA even with the load at the minimum setting. Adjusting the carrier ring has no effect on the meter.

Thanks again for the help

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Kevin, Do you have your manual for the 830? The instructions you need are in there. First, make sure your Ip is set right. Second, make sure your on a dummy load. Sometimes I've found an antenna to be a little hairy to tune to. Third, I often times make sure that in recieve mode I can hear the most noise by moving the last knob to the right, adjusting it for maximum noise. That part is most of the way tuned for you.
>
> Try these first and see what you get. I often thougfht something was wrong too. Try it and get back with these results.
>
> Remember, a dummy load or something broad enough to tune to. it's already a proper match of 50 ohms.And to listen to the recieve and adjust the drive knob. Load and plate will come easier to you in the normal process.
>
> Do it see what it does. I'll lok back later today to see the

results.
>
> Kevin Keyes <kskeye@...> wrote:
> I have been having difficulty tuning up on 40 meters
using K4EAA's
> tuning instructions. When the mode is switched to CW and I dip the
> plate with the meter at the LP setting the meters reads 350 mA.
This
> is with the load set to minimum. I don't have this problem on the
> other bands. Am I doing something wrong or is this a normal
reading
> for this band.
>
> Thanks for your help.
>
> Kevin, KI4KFS
>
>
>
>
>
>
> ---------------------------------
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]
>

10793. Re: Fwd: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-05 00:56:33 UTC
From: John Harp
Topic: 10788 Message: 10793

Actually Frank the reason you go down to the tune position is to reduce power for tuning. The reason is to reduce the possibility of damging the radio due to operating while it is not aligned. For example, if you set tune and check your carrier you'll try to keep your meter back to the point they tell you so you won't so easily over drive. I used to let mine be high while tuning excessively and it stresses some components in there. If you want to get more longer life out of your tubes tune up right. excessive drive can be hard on your 12BY&X driver tube. When you see that it won't tune well you may have a driver tube going bad. Soon it won't tune at all.

kc2aup@... wrote: Question.....

If the tuning is the same for each band, does it really matter if the radio
is in the "TUNE" position?
I have always tuned up in the "CW" position without any problems.

Frank
KC2AUP

[Non-text portions of this message have been removed]

Access over 1 million songs - Yahoo! Music Unlimited Try it today.

[Non-text portions of this message have been removed]

10794. Re: [TS-520_820_530_830] TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-05 01:00:53 UTC
From: John Harp
Topic: 10784 Message: 10794

I suggest putting in another driver tube first and see if that helps. Then go from there.

Kevin Keyes <kskeye@...> wrote: Thanks for the reply. I have the 830 manual and have followed that.
I begin by setting the mode to Tune and also use a dummy load. Once I have peaked the drive and dipped the plate in Tune mode (mA reading is about 150) using the appropriate meter settings I then switch the mode to CW and close the straight key to generate a tone. Now, when I attempt to dip the plate with the meter switch on the IP setting I can't get below 350 mA even with the load at the minimum setting. Adjusting the carrier ring has no effect on the meter.

Thanks again for the help

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Kevin, Do you have your manual for the 830? The instructions you need are in there. First, make sure your Ip is set right. Second, make sure your on a dummy load. Sometimes I've found an antenna to be a little hairy to tune to. Third, I often times make sure that in recieve mode I can hear the most noise by moving the last knob to the right, adjusting it for maximum noise. That part is most of the way tuned for you.
>
> Try these first and see what you get. I often thougfht something was wrong too. Try it and get back with these results.
>
> Remember, a dummy load or something broad enough to tune to. it's already a proper match of 50 ohms.And to listen to the recieve and adjust the drive knob. Load and plate will come easier to you in the normal process.
>
> Do it see what it does. I'll lok back later today to see the results.
>
> Kevin Keyes <kskeye@...> wrote:
> I have been having difficulty tuning up on 40 meters using K4EAA's
> tuning instructions. When the mode is switched to CW and I dip the
> plate with the meter at the LP setting the meters reads 350 mA. This
> is with the load set to minimum. I don't have this problem on the
> other bands. Am I doing something wrong or is this a normal

reading
> for this band.
>
> Thanks for your help.
>
> Kevin, KI4KFS
>
>
>
>
>
>
> ---
> Check out the New Yahoo! Mail - Fire up a more powerful email and
get things done faster.
>
> [Non-text portions of this message have been removed]
>

Low, Low, Low Rates! Check out Yahoo! Messenger's cheap PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10795. TS-830S - Question Re: Tuning Up On 40 Meters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-05 04:06:28 UTC
From: Clif
Topic: 10784 Message: 10795

Ah-ha. Your meter reading at dip in Tune mode should be around 50-75 ma. MAX. By your reading being 150 ma I question the metering circuit resistors. If they are off the the CW reading will be high also. I would change R2, R3, R4, R5 (cathode resistors) and R6, R10 (meter circuit resistors). That should straighten out the readings.

Then again by the Car control having no effect you amy have an oscillation problem.

How does the IP meter read on the other bands?

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Kevin Keyes" <kskeye@...> wrote:
>
> Thanks for the reply. I have the 830 manual and have followed that. I begin by setting the mode to Tune and also use a dummy load. Once I have peaked the drive and dipped the plate in Tune mode (mA reading is about 150) using the appropriate meter settings I then switch the mode to CW and close the straight key to generate a tone. Now, when I attempt to dip the plate with the meter switch on the IP setting I can't get below 350 mA even with the load at the minimum setting. Adjusting the carrier ring has no effect on the meter.
>
> Thanks again for the help
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > Kevin, Do you have your manual for the 830? The instructions you need are in there. First, make sure your Ip is set right. Second, make sure your on a dummy load. Sometimes I've found an antenna to be a little hairy to tune to. Third, I often times make sure that in recieve mode I can hear the most noise by moving the last knob to the right, adjusting it for maximum noise. That part is most of the way tuned for you.
> >
> > Try these first and see what you get. I often thougfht something was wrong too. Try it and get back with these results.
> >
> > Remember, a dummy load or something broad enough to tune to. it's already a proper match of 50 ohms.And to listen to the recieve and adjust the drive knob. Load and plate will come easier to you in the normal process.
> >

> > Do it see what it does. I'll lok back later today to see the
> results.
> >
> > Kevin Keyes <kskeye@> wrote:
> > I have been having difficulty tuning up on 40 meters
> using K4EAA's
> > tuning instructions. When the mode is switched to CW and I dip the
> > plate with the meter at the LP setting the meters reads 350 mA.
> This
> > is with the load set to minimum. I don't have this problem on the
> > other bands. Am I doing something wrong or is this a normal
> reading
> > for this band.
> >
> > Thanks for your help.
> >
> > Kevin, KI4KFS
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Check out the New Yahoo! Mail - Fire up a more powerful email and
> get things done faster.
> >
> > [Non-text portions of this message have been removed]
> >
>

10796. TS-510 restoration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-05 05:34:24 UTC
From: digs4ruff
Topic: 10715 Message: 10796

For those who are interested.
I have uploaded photos of the TS-510 to the Photos/VA7GEM folder.
These photos are of the radio as received before any cleanup commences.
regards
Barry

10797. Repost From Yahoo "Radio Modifications Group"

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-05 13:25:58 UTC
From: Ruben Echevarria
Topic: 10797 Message: 10797

I just found this post, thought I'd help out and repost it here.
Ruben KA2HHB.....

Info on "undoing" 11 meter mod to TS-830S...
Posted by: "Kevin Hunter" huntek@... kevin_ka0i
Sat Nov 4, 2006 5:09 pm (PST)

I have a Kenwood TS-830S that does not TX when the band switch is in the 28 MHz position. The receive sensitivity is VERY weak on the 28 MHz position also.

There is an extra hole drilled in the rear panel and a couple of diodes soldered to the legs of one of the ICs on the display board. One end of each diode is connected to a leg on the chip and the other is not connected to anything.

I suspect this is either a 11 meter mod that was partially reversed, or one that went bad from the beginning.

In any event, I am looking for information on 11 meter mods for a TS-830S, good, bad, or otherwise, so that I might attempt to figure out what may have been done to this radio and fix it.

Thanks & 73,

Kevin Hunter - KA0I
Holts Summit, MO

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

10798. 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 01:51:01 UTC
From: wb4mnk
Topic: 468 Message: 10798

I purchased two GE 6146B tubes and they are marked like this:
8298A/6146B GE Made in USA. The reason I ask is I have always seen the
GE tubed marked like this: 6146B/8298A GE Made in USA. Any body know
the difference ?

73
Art
WB4MNK

10799. MIxers, EQs, compressors...audio tech. Kewl.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 01:42:47 UTC
From: zengmeiste@aol.com
Topic: 10799 Message: 10799

Having joined to learn loads about these great xcvrs I find it's
not just as simple as plug-n-play. It occurs to me to ask, since I
happen to have a potentially usable audio processor, if any of you
have had the chance to try a Digitek S100 multi-function DSP unit?

It's primarily designed as a guitar effects machine (I don't play
guitar, though; it was a freebie acquisition I could not refuse) but
I'd think it'd be great to use the compression, EQ and other features
for audio conditioning, when I finally can use my General Class license
and have saved up enough money to purchase a suitable unit sometime
in the (hopefully near) future.

Any thoughts on this? And THANKS for the cornucopia of information
you all post here, it's an education you can't possible get anywhere else.

73, Terry KC9KEL

[Non-text portions of this message have been removed]

10800. Re: [TS-520_820_530_830] MIxers, EQs, compressors...audio tech. Kewl.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 08:48:04 UTC
From: n9wb
Topic: 10799 Message: 10800

Terry:
Welcome to the group. We have found that these Kenwood Hybrid rigs are good performers and much easier to service than today's squinty-eyed surface mount rigs.

You probably will want to join the KenwoodMics group. when an audio thread gets very long, we usually take it to the Mics group so we can keep the traffic load reasonable. I will send you an invitation.

Vy 73, Walt N9WB

----- Original Message -----
From: zengmeiste@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 05, 2006 8:42 PM
Subject: [TS-520_820_530_830] MIxers, EQs, compressors...audio tech. Kewl.

Having joined to learn loads about these great xcvrs I find it's
not just as simple as plug-n-play. It occurs to me to ask, since I
happen to have a potentially usable audio processor, if any of you
have had the chance to try a Digitek S100 multi-function DSP unit?

It's primarily designed as a guitar effects machine (I don't play
guitar, though; it was a freebie acquisition I could not refuse) but
I'd think it'd be great to use the compression, EQ and other features
for audio conditioning, when I finally can use my General Class license
and have saved up enough money to purchase a suitable unit sometime
in the (hopefully near) future.

Any thoughts on this? And THANKS for the cornucopia of information
you all post here, it's an education you can't possible get anywhere else.

73, Terry KC9KEL

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/06

[Non-text portions of this message have been removed]

10801. PA rf choke no a TS520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 14:54:56 UTC
From: KEN (G3SDW)
Topic: 10801 Message: 10801

Hi everybody,
A short time ago i had to replace the rf choke in the pa of my ts530 needless to say could not find one anywere.So as a good radio ham i set to and rewound the old one.The gauge of the new wire was slightly larger so i am sure the inductance was not quite right.The rig works ok now but does not seem as it should. I have managed to obtain a very good condition rf choke from a TS520 so can anyone tell me what the value is and any reason why it would not be suitable in the TS530.

73 To all
Ken
G3SDW
UK

10802. Re: 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 14:21:34 UTC
From: Don
Topic: 468 Message: 10802

Art;

I use RF Parts for sourcing my 6146B's and 6146W's. I don't use GE branded tubes in my Hybrid Kenwood Radios. They don't ply well together. Check with RF parts to resolve your issue, I have seen them labeled that way also. I think with the Jan number first on the label it is probably meant for the mil or earlier regraded 6146's. First run of GE so-labeled 6146B's. Early tubes in this class has a history.
Don/w5dja
ps: search on the newsgroup for an article on these tubes, it is very good reading.

10803. Replacement Cores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 16:46:56 UTC
From: Gordon
Topic: 10803 Message: 10803

Has anyone found a source for the tuning cores in the small coils used in the hybrids? I always watch the surplus shops for old coils to take them from but have not come across any sort of source for just the cores and not the whole coils. I'd like to have some on hand as I am going to start repairing Rigs as a part time job here at my shop.

Gordon
N6WK

10804. Re: MIxers, EQs, compressors...audio tech. Kewl.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 16:58:19 UTC
From: Ellen R
Topic: 10799 Message: 10804

Hi Terry,

I am the guitarist of the group (been playing for 27 plus years, some of it semi-pro as a lead guitarist in heavy rock bands). The S100 is a multi effects processor. The only thing that might be of use to you on it, might be whatever built-in graphic EQ it has. The rest of the effects will be either modulation based (such as choruses, and flangers [a touch of flange sounds cool on guitar]), digital delays (for doubling, etc.) phasing, or distortions (for that fuzzy, overdriven, thrash/nu metal sound, or [depending upon your preference] Marshall stack sound).

Technically, with the exception of whatever EQ is in the unit, all of the other effects are forms of distortion. Because in spite of that many of them do not flattop/clip the basic signal, they still mess up the basic sound (listen to a Chorus at a high rate of sweep; not only is it warbly, it actually starts to add octaves [think of the guitar solo on "Come as You ARE" by Nirvana]). Intentional signal distortion is a no-no, accrding to the regs.

On the input side, you will need probably an adapter for the 1/4 inch jack inputs, and possibly an impedance transformer, due to the fact that Kenwood high impedance mics are 50 K Ohm impedance (even higher than the impedance input for the processor {which is probably optimized for guitar picku impedances from 5000 to 17,000 ohms]). If you don't use a transformer, you will have loading, and you're audio will sound very dark (bassy). If the S100 has XLR inputs, you can use a good decent audio mic (like a Shure SM58 [yeah!, my favorite mic]). On the output side, your XLRs outputs are low impedance (and you have to deal with that with an impedance transformer), and the 1/4 jacks (for feeding into a guitar amp), have the same basic impedance issue as as the high impedance inputs on the processor.

All of these issues can be dealt with. Just realize that this is not a plug-and-play thing that you plan on doing.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, zengmeiste@... wrote:
>
> Having joined to learn loads about these great xcvrs I find it's
> not just as simple as plug-n-play. It occurs to me to ask, since I
> happen to have a potentially usable audio processor, if any of you
> have had the chance to try a Digitek S100 multi-function DSP unit?
>

> It's primarily designed as a guitar effects machine (I don't play
> guitar, though; it was a freebie acquisition I could not refuse) but
> I'd think it'd be great to use the compression, EQ and other
features
> for audio conditioning, when I finally can use my General Class
license
> and have saved up enough money to purchase a suitable unit sometime
> in the (hopefully near) future.
>
> Any thoughts on this? And THANKS for the cornucopia of information
> you all post here, it's an education you can't possible get
anywhere else.
>
> 73, Terry KC9KEL
>
>
> [Non-text portions of this message have been removed]
>

10805. Re: PA rf choke no a TS520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 17:03:43 UTC
From: Clif
Topic: 10801 Message: 10805

I don't know the value but they are different. The 530 covers 160 and
the plain 520 doesn't. If it were from a 520s it probably would work.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "KEN (G3SDW)" <g3sdw@...>
wrote:
>
> Hi everybody,
> A short time ago i had to replace the rf choke in the pa of my ts530
> needless to say could not find one anywere.So as a good radio ham i
> set to and rewound the old one.The gauge of the new wire was slightly
> larger so i am sure the inductance was not quite right.The rig works
> ok now but does not seem as it should. I have managed to obtain a very
> good condition rf choke from a TS520 so can anyone tell me what the
> value is and any reason why it would not be suitable in the TS530.
>
> 73 To all
> Ken
> G3SDW
> UK
>

10806. Re: [TS-520_820_530_830] PA rf choke no a TS520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 16:07:09 UTC
From: Another Old Codger
Topic: 10801 Message: 10806

The TS 520 has a very similar PA, so I would suggest that it should be OK. The TS-530 manual shows L1, (nearest to the PA) as 150 micro H, L2 470 micro H.

I haven't the TS-520 Manual, but the TS-820 shows an almost identical circuit. Kenwood obviously believe in, "If it aint broke, don't fix it".

73 Ron G8URU
----- Original Message -----
From: "KEN (G3SDW)" <g3sdw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 06, 2006 2:54 PM
Subject: [TS-520_820_530_830] PA rf choke no a TS520

Hi everybody,
A short time ago i had to replace the rf choke in the pa of my ts530 needless to say could not find one anywere.So as a good radio ham i set to and rewound the old one.The gauge of the new wire was slightly larger so i am sure the inductance was not quite right.The rig works ok now but does not seem as it should. I have managed to obtain a very good condition rf choke from a TS520 so can anyone tell me what the value is and any reason why it would not be suitable in the TS530.

73 To all
Ken
G3SDW
UK

10807. Re: [TS-520_820_530_830] Replacement Cores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 17:59:01 UTC
From: Rick KC0HH
Topic: 10803 Message: 10807

Hi Gordon,

You might try these people. It has been a while but I have used their threaded cores. They are in your neck of the woods also in Anaheim...

http://www.lodestonepacific.com/products/vscf/pg14.html

73' Rick KC0HH

Gordon <n6wk@...> wrote: Has anyone found a source for the tuning cores in the small coils used
in the hybrids? I always watch the surplus shops for old coils to
take them from but have not come across any sort of source for just
the cores and not the whole coils. I'd like to have some on hand as I
am going to start repairing Rigs as a part time job here at my shop.

Gordon
N6WK

73' Rick KC0HH
Lamar, Colorado

Sponsored Link

Mortgage rates near historic lows: $150,000 loan as low as $579/mo. Intro-*Terms

[Non-text portions of this message have been removed]

10808. Re: Replacement Cores

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-06 20:24:32 UTC
From: Gordon
Topic: 10803 Message: 10808

Thanks Rick,
I'll check it out. A quick glance on their website didn't show me
any of the coils where the slug is the CUP type such as the L41 on the
RF board of an 830.
I'll keep you informed of what I find.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Gordon,
>
> You might try these people. It has been a while but I have used
their threaded cores. They are in your neck of the woods also in
Anaheim...
>
> http://www.lodestonepacific.com/products/vscf/pg14.html
>
> 73' Rick KC0HH
>
>
> Gordon <n6wk@...> wrote: Has anyone
found a source for the tuning cores in the small coils used
> in the hybrids? I always watch the surplus shops for old coils to
> take them from but have not come across any sort of source for just
> the cores and not the whole coils. I'd like to have some on hand as I
> am going to start repairing Rigs as a part time job here at my shop.
>
> Gordon
> N6WK
>
>
>
>
>
>
>
>
> 73' Rick KC0HH
> Lamar, Colorado
>
> ---------------------------------
> Sponsored Link
>
> Mortgage rates near historic lows: $150,000 loan as low as $579/mo.
Intro-*Terms

>
> [Non-text portions of this message have been removed]
>

10809. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 00:16:49 UTC
From: John Harp
Topic: 468 Message: 10809

Should be the same thing and it should work fine. Pnly one way to find out.

wb4mnk <wb4mnk@...> wrote: I purchased two GE 6146B tubes and they are marked like this:
8298A/6146B GE Made in USA. The reason I ask is I have always seen the
GE tubed marked like this: 6146B/8298A GE Made in USA. Any body know
the difference ?

73
Art
WB4MNK

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

10810. Re: [TS-520_820_530_830] Re: 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 00:21:57 UTC
From: Art
Topic: 468 Message: 10810

Don, I have also used RF Parts but I do not believe they have the 6146B any more. I know from experience that the GE 6146W will not work in my TS-830S but the GE 6146B seems to work OK. Any way thanks for the information on the GE tubes.

73
Art
WB4MNK
----- Original Message -----
From: Don
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 9:21 AM
Subject: [TS-520_820_530_830] Re: 6146B

Art;

I use RF Parts for sourcing my 6146B's and 6146W's. I don't use GE branded tubes in my Hybrid Kenwood Radios. They don't ply well together. Check with RF parts to resolve your issue, I have seen them labeled that way also. I think with the Jan number first on the label it is probably meant for the mil or earlier regraded 6146's. First run of GE so-labeled 6146B's. Early tubes in this class has a history.
Don/w5dja
ps: search on the newsgroup for an article on these tubes, it is very good reading.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

10811. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 00:51:42 UTC
From: Art
Topic: 468 Message: 10811

John, Thanks.

73
Art
WB4MNK
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 7:16 PM
Subject: Re: [TS-520_820_530_830] 6146B

Should be the same thing and it should work fine. Pnly one way to find out.

wb4mnk <wb4mnk@...> wrote: I purchased two GE 6146B tubes and they are marked like this:
8298A/6146B GE Made in USA. The reason I ask is I have always seen the
GE tubed marked like this: 6146B/8298A GE Made in USA. Any body know
the difference ?

73
Art
WB4MNK

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

10812. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 01:04:16 UTC
From: John Harp
Topic: 468 Message: 10812

Ok Art. I've used both in my 830 and both work good. In fact I've gone back and put w's in one of my 830's a second time. I own two of them.

Art <wb4mnk@...> wrote: John, Thanks.

73
Art
WB4MNK
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 7:16 PM
Subject: Re: [TS-520_820_530_830] 6146B

Should be the same thing and it should work fine. Pnly one way to find out.

wb4mnk <wb4mnk@...> wrote: I purchased two GE 6146B tubes and they are marked like this:
8298A/6146B GE Made in USA. The reason I ask is I have always seen the
GE tubed marked like this: 6146B/8298A GE Made in USA. Any body know
the difference ?

73
Art
WB4MNK

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

10813. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 02:04:01 UTC
From: Art
Topic: 468 Message: 10813

John, OK on the 6146W. I have a set of 6146W in my 830 now which work fine but if I put the GE brand in my 830 it is a no go and I have to start replacing resistors. I can use any other brand of w's and they work fine. I have tried three different sets of GE 6146W's with the same problem. Could be why RF Parts says this:
6146W-GE (GE Brand) is not recommended for Kenwood transceivers, and is not interchangable with the 6146B.

73

Art

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 8:04 PM
Subject: Re: [TS-520_820_530_830] 6146B

Ok Art. I've used both in my 830 and both work good. In fact I've gone back and put w's in one of my 830's a second time. I own two of them.

Art <wb4mnk@...> wrote: John, Thanks.

73
Art
WB4MNK
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 7:16 PM
Subject: Re: [TS-520_820_530_830] 6146B

Should be the same thing and it should work fine. Pnly one way to find out.

wb4mnk <wb4mnk@...> wrote: I purchased two GE 6146B tubes and they are marked like this:
8298A/6146B GE Made in USA. The reason I ask is I have always seen the
GE tubed marked like this: 6146B/8298A GE Made in USA. Any body know
the difference ?

73
Art
WB4MNK

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

10814. RE: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 13:03:23 UTC
From: Darwin, Keith
Topic: 468 Message: 10814

My 830s has GE brand 6146B. I checked them last night. They give over 100 watts out key down at 28.300 MHz.

- Keith N1AS -

-----Original Message-----
From: Art

6146W-GE (GE Brand) is not recommended for Kenwood transceivers, and is not interchangable with the 6146B.

10815. Re: 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 13:35:10 UTC
From: K4MT
Topic: 468 Message: 10815

I also have GE tubes in my 520S and they put a solid 100 W
out including over 100 on 10 meters.

I do some SSTV and RTTY with long keydowns and the tubes
have held up well.

--- In TS-520_820_530_830@yahoogroups.com, "Darwin,
Keith" <keith.darwin@...> wrote:
>
> My 830s has GE brand 6146B. I checked them last night.
They give over
> 100 watts out key down at 28.300 MHz.
>
> - Keith N1AS -
>
> -----Original Message-----
> From: Art
>
> 6146W-GE (GE Brand) is not recommended for Kenwood
transceivers, and is
> not interchangable with the 6146B.
>

10816. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 13:50:32 UTC
From: Ruben Echevarria
Topic: 468 Message: 10816

I have 2 TS830S rigs and I've used 6146B and 6146W's in both of them.
The W's will work but will not put out the same amount of power.
When I switch over to B's I get about 20 more watts out of the rigs.
The B tubes are quite old and still kicking, the W's are from RF Parts I have 4 sets.
All in all in my opinion they'll do the job. I have no worries....
At the risk of beating a dead horse "DO NOT USE CHINESE TUBES" they flash over
and will cause the rig to burn out resistors. I was wondering if the mislabeled tubes are
possibly chinese? I have never seen one so don't know what markings it has?

73 .... de Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: "Darwin, Keith" <keith.darwin@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 7, 2006 8:03:23 AM
Subject: RE: [TS-520_820_530_830] 6146B

My 830s has GE brand 6146B. I checked them last night. They give over
100 watts out key down at 28.300 MHz.

- Keith N1AS -

-----Original Message-----
From: Art

6146W-GE (GE Brand) is not recommended for Kenwood transceivers, and is
not interchangable with the 6146B.

[Non-text portions of this message have been removed]

10817. What sound card/radio interface do you use with your 830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 20:01:14 UTC
From: Johnne Ables
Topic: 10817 Message: 10817

Hi All,

The group is a great resource!!!!

I have a mint 830S arriving soon and I'd like to do a bit of PSK31, RTTY, etc. Does anyone have a working set-up that they would recommend? I greatly appreciate any feedback.

Thanks!

73 DE W1YB - Johnne

10818. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 22:49:03 UTC
From: John Harp
Topic: 468 Message: 10818

Sometimes they work for some people and sometimes they don't. I to this point have had no problem with 6146W's in my two 830's. I've heard others say they did. That's why I said try them and see. Right now one has 6146w's in it and the other has 6146b's.

The 6146w's are nice in thaty they can run at reduced drive for my linear. I often run barefoot so I usually use the 6146b's at tihs point. I've had 6146b's in before for 3 or 4 years and not had a problem. Then I switched them out to 6146b's and did a clean up.

The 830 was checked after the 6146w's were installed and found no problems in any areas of any bands. They ran at reduced power because they were a high dissipation tube, but for me to use them with one of my Amplifiers it was not a problem.

Today I use a different Amplifier and 6146b's on the second 830, but that's like I said I run akot of barefoot, mostly on 40 meters.

Check your resistors each time you go into the PA box. I always do. Knowing ther inside of your radio is important to it's life. Keep it well grounded.

Art <wb4mnk@...> wrote:
John, OK on the 6146W. I have a set of 6146W in my 830 now which work fine but if I put the GE brand in my 830 it is a no go and I have to start replacing resistors. I can use any other brand of w's and they work fine. I have tried three different sets of GE 6146W's with the same problem. Could be why RF Parts says this:
6146W-GE (GE Brand) is not recommended for Kenwood transceivers, and is not interchangable with the 6146B.

73

Art

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 8:04 PM
Subject: Re: [TS-520_820_530_830] 6146B

Ok Art. I've used both in my 830 and both work good. In fact I've gone back and put w's in one of my 830's a second time. I own two of them.

Art <wb4mnk@...> wrote: John, Thanks.

73
Art
WB4MNK
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 06, 2006 7:16 PM

Subject: Re: [TS-520_820_530_830] 6146B

Should be the same thing and it should work fine. Pnly one way to find out.

wb4mnk <wb4mnk@...> wrote: I purchased two GE 6146B tubes and they are marked like this:
8298A/6146B GE Made in USA. The reason I ask is I have always seen the
GE tubed marked like this: 6146B/8298A GE Made in USA. Any body know
the difference ?

73
Art
WB4MNK

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.28/518 - Release Date: 11/4/2006

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10819. Re: [TS-520_820_530_830] 6146B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 23:12:27 UTC
From: John Harp
Topic: 468 Message: 10819

Well that's two of us used them in 830's. But I ouwldn't try the chineese tube if I ever came across it. Not after I saw what happened in a 572 B. In a 572B they bias different. There it does damage.

Ruben Echevarria <ka2hhb_2000@...> wrote: I have 2 TS830S rigs and I've used 6146B and 6146W's in both of them.
The W's will work but will not put out the same amount of power.
When I switch over to B's I get about 20 more watts out of the rigs.
The B tubes are quite old and still kicking, the W's are from RF Parts I have 4 sets.
All in all in my opinion they'll do the job. I have no worries....
At the risk of beating a dead horse "DO NOT USE CHINESE TUBES" they flash over
and will cause the rig to burn out resistors. I was wondering if the mislabeled tubes are possibly chinese? I have never seen one so don't know what markings it has?

73 .... de Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: "Darwin, Keith" <keith.darwin@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 7, 2006 8:03:23 AM
Subject: RE: [TS-520_820_530_830] 6146B

My 830s has GE brand 6146B. I checked them last night. They give over
100 watts out key down at 28.300 MHz.

- Keith N1AS -

-----Original Message-----
From: Art

6146W-GE (GE Brand) is not recommended for Kenwood transceivers, and is
not interchangable with the 6146B.

[Non-text portions of this message have been removed]

Sponsored Link

Get a free Motorola Razr! Today Only! Choose Cingular, Sprint, Verizon, Alltel, or
T-Mobile.

[Non-text portions of this message have been removed]

10820. 830 package on Ebay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-07 23:42:45 UTC
From: Bob M
Topic: 10820 Message: 10820

I just noticed an estate 830 package on ebay US only so no good to me down here.

Item number: 330047322512

Just for reference.
Regards
Bob M. VK4HAY

10821. Re: What sound card/radio interface do you use with your 830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 00:18:02 UTC
From: steveb84us
Topic: 10817 Message: 10821

I am using a program called DigiPan with my HP notebook for PSK31.
For RTTY, I am using MMTTY. Both programs work great and the help
files have nice instructions on how to wire things up to your sound
card. Also, both are freeware.

Steve - N9SB

--- In TS-520_820_530_830@yahoogroups.com, "Johnne Ables"
<johnne507@...> wrote:
>
> Hi All,
>
> The group is a great resource!!!!
>
> I have a mint 830S arriving soon and I'd like to do a bit of PSK31,
> RTTY, etc. Does anyone have a working set-up that they would
> recommend? I greatly appreciate any feedback.
>
> Thanks!
>
> 73 DE W1YB - Johnne
>

10822. Re: What sound card/radio interface do you use with your 830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 01:41:04 UTC
From: ve3tmt
Topic: 10817 Message: 10822

I use MixW for my PSK31, MMTTY for RTTY and MMSSTV for SSTV. The computer speaker output goes through my RigBlaster Plus into the mic plug. I tapped the speaker audio line before the AF GAIN control so I get a fixed level signal going into the soundcard regardless of the volume setting. Be careful not to overdrive the radio, I have the MIC GAIN at 4 with my sound card sliders just under halfway, and get about 40-50W out with these settings. I get great reports on the clean signal.

If you want help setting it up, e-mail me directly with your phone number and I will call you and help you through it. I have unlimited long distance in North America.

Max VE3TMT

10823. RE: [TS-520_820_530_830] Re: What sound card/radio interface do you use with your 830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 01:56:32 UTC
From: Ron Hauser
Topic: 10817 Message: 10823

Well, I know this is not the best practice, but I have a TS830 and a TS820 that I have used extensively on digital modes with straight cables; I got a four pin microphone plug and cut the end off of a 1/8" computer audio patch cord. I ran a second patch cord from the external speaker out to the line in of the sound card. I have made dozens of contacts with both rigs, and it worked fine, no problems. This is a temporary, inexpensive way to test, however, a proper isolating interface is a better way to go, and I have a Tigertronics SL-1+ that I am getting set up.

I have run Digipan, MixW, and Multipsk software on the "homebrew interface" above. In my experience the 820 is good on digital, and the 830 is fantastic. The addition of the variable band pass tuning and the notch filter on the 830 is very nice. I am planning to do the Shottkey diode mod, and the mod to allow use of the CW narrow filter, which should really make the 830 shine on digital modes.

Hope to work you on digital modes soon!
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of steveb84us
Sent: Tuesday, November 07, 2006 6:18 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: What sound card/radio interface do you use with your 830S?

I am using a program called DigiPan with my HP notebook for PSK31.
For RTTY, I am using MMTTY. Both programs work great and the help files have nice instructions on how to wire things up to your sound card. Also, both are freeware.

Steve - N9SB

--- In TS-520_820_530_830@yahoogroups.com, "Johnne Ables"
<johnne507@...> wrote:
>
> Hi All,
>
> The group is a great resource!!!!
>
> I have a mint 830S arriving soon and I'd like to do a bit of PSK31,
> RTTY, etc. Does anyone have a working set-up that they would
> recommend? I greatly appreciate any feedback.

>
> Thanks!
>
> 73 DE W1YB - Johnne
>

Yahoo! Groups Links

10824. TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 10:58:44 UTC
From: Jeramy A. Ross
Topic: 10824 Message: 10824

Hello to the group. I have a small question about my recently acquired TS-820S. When I turn the RF-Gain down, the S-Meter reading increases in proportion. Once I have the RF-Gain down about 50% of max the meter stops responding to any signal received.. it just hangs out about half way on the scale. If I turn it down all the way, the meter reads about 2/3rd's up the scale. Is this normal?

Other than this, the rig is great and functions perfectly. This really isn't a show-stopper. Just have never seen it before.

Thanks in advance,
Jeramy / W5XTL

10825. Re: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 11:53:11 UTC
From: n9wb
Topic: 10824 Message: 10825

This is perfectly normal. The S-meter runs off of the AGC voltage. The AGC voltage is shifted when you reduce the RF gain to reduce the gain. This way, the signal to noise ratio increases as the RF gain is reduced. I have several rigs and my TS-820 S if the one I use the most because it is my favorite. You will enjoy yours. Welcome to our group.

Vy 73, Walt N9WB

----- Original Message -----
From: Jeramy A. Ross
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 08, 2006 5:58 AM
Subject: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Hello to the group. I have a small question about my recently acquired TS-820S. When I turn the RF-Gain down, the S-Meter reading increases in proportion. Once I have the RF-Gain down about 50% of max the meter stops responding to any signal received.. it just hangs out about half way on the scale. If I turn it down all the way, the meter reads about 2/3rd's up the scale. Is this normal?

Other than this, the rig is great and functions perfectly. This really isn't a show-stopper. Just have never seen it before.

Thanks in advance,
Jeramy / W5XTL

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.32/523 - Release Date: 11/7/06

[Non-text portions of this message have been removed]

10826. Re: What sound card/radio interface do you use with your 830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 12:17:16 UTC
From: ve3tmt
Topic: 10817 Message: 10826

--- In TS-520_820_530_830@yahoogroups.com, "Ron Hauser" <eichmann@...>
wrote:

I am planning to do the Shottkey diode mod,and the mod to allow use of
the CW narrow filter, which should really make the 830 shine on
digital modes.

Hi Ron,

Ruben and I talked on the telephone for a while last night and I
suggested he try using straight cables first and listen for any hum on
the receive and TX audio. I had ground loop problems doing this so I
got the RigBlaster. You have to do the CW filter mod. I use it all the
time on the digital modes. I mounted a small toggle switch on the back
of the 830 to switch it in and out. It is a godsend on PSK!

Max VE3TMT

10827. RE: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 12:27:42 UTC
From: Darwin, Keith
Topic: 10824 Message: 10827

Yes and maybe no. The S-meter shows the amount of gain reduction the AGC is producing. The stronger the signal, the more the AGC reduces the gain and the more the deflection of the S-meter. The RF gain control is just a manual AGC. As you turn it, you're manually reducing the gain which shows on the S-meter as an increase in signal. Normal.

One of my favorite techniques is to run with a combination of manual gain control and AGC. I leave the AGC on, but reduce the RF gain so the S-meter quits responding to background noise, or maybe a bit more. Then the AGC only responds to signals and when the signal isn't there, the background noise doesn't rise to full volume. I get the high S/N ratio of having AGC off but the AGC is still there able to handle changes in signal strength.

On my 830s, the S-meter quits responding to background noise with the RF gain turned down about 1/2. Turned down all the way, the S-meter goes full scale. Makes me wonder if your 820s has an S-meter that is reading a bit low. When you turn on the 25 KHz calibrator, and peak the signal, what is your S-meter reading? I think it should be a bit shy of S9 on 40 meters.

- Keith N1AS -

-----Original Message-----
From: Jeramy A. Ross

When I turn the RF-Gain down, the S-Meter reading increases in proportion. Once I have the RF-Gain down about 50% of max the meter stops responding to any signal received.. it just hangs out about half way on the scale. If I turn it down all the way, the meter reads about 2/3rd's up the scale. Is this normal?

10828. Re: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 13:00:09 UTC
From: Another Old Codger
Topic: 10824 Message: 10828

The simple answer is ,Yes. Unfortunately, that is the way that the S Meter works on most rigs of that era. Some later models do retain accuracy as the S Meter feed is obtained in a different way. I attempted to calibrate the Meter on my TS-530, using a very accurate Signal Generator, (TF-144), but the reading varies band to band. In reality, RST should be subjective, the S Meter does produce some hilarious reports, "You're 5 and 9 Old Man, sorry could you repeat you last over I couldn't read you!). We didn't have S Meters in the 40's and 50's, and if we did they were not accurate.

73 Ron G8URU.

----- Original Message -----
From: "Jeramy A. Ross" <jeramy@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 08, 2006 10:58 AM
Subject: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Hello to the group. I have a small question about my recently acquired
TS-820S. When I turn the RF-Gain down, the S-Meter reading increases in
proportion. Once I have the RF-Gain down about 50% of max the meter stops responding to any signal received.. it just hangs out about half way on the scale. If I turn it down all the way, the meter reads about
2/3rd's up the scale. Is this normal?

Other than this, the rig is great and functions perfectly. This really
isn't a show-stopper. Just have never seen it before.

Thanks in advance,
Jeramy / W5XTL

10829. Re: TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 17:39:43 UTC
From: Clif
Topic: 10824 Message: 10829

That is the way the RF Gain control works, less RF Gain more S-meter.
Unfortunately something is amiss in your setup. The S-meter should be
pegged at 60 over somewhere between 10-12 o'clock on the RF Gain
control. IT could be as simple as the S-meter isn't adjusted correctly
or the RF Gain pot is not turning down all the way.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Jeramy A. Ross"
<jeramy@...> wrote:
>
> Hello to the group. I have a small question about my recently acquired
> TS-820S. When I turn the RF-Gain down, the S-Meter reading increases in
> proportion. Once I have the RF-Gain down about 50% of max the meter
> stops responding to any signal received.. it just hangs out about half
> way on the scale. If I turn it down all the way, the meter reads about
> 2/3rd's up the scale. Is this normal?
>
> Other than this, the rig is great and functions perfectly. This really
> isn't a show-stopper. Just have never seen it before.
>
> Thanks in advance,
> Jeramy / W5XTL
>

10830. Re: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 18:01:15 UTC
From: Graham Ridgeway
Topic: 10824 Message: 10830

On Wed, 8 Nov 2006 13:00:09 -0000, Another Old Codger wrote:

>The simple answer is ,Yes. Unfortunately, that is the way that the S
>Meter works on most rigs of that era. Some later models do retain
>accuracy as the S Meter feed is obtained in a different way. I
>attempted to calibrate the Meter on my TS-530, using a very accurate
>Signal Generator, (TF-144), but the reading varies band to band. In
>reality, RST should be subjective, the S Meter does produce some
>hilarious reports, "You're 5 and 9 Old Man, sorry could you repeat you
>last over I couldn't read you!). We didn't have S Meters in the 40's
>and 50's, and if we did they were not accurate.
>
>73 Ron G8URU.
>

Agree totally.

Even my on pair of SG2020's [one for each ear] as you decrease the RF gain the 's' indicator goes up. Likewise the 520 & 530 here.

As for the old days - yes we did have 's' meters - usually homebrew - wheatstone bridge and a 1mA movement [just like Eddystones used] and the scales were never redrawn, they were just indicative.

Most accurate meter I've ever seen [once set up] on older kit was that on the BRT400 series, calibrated in db

Graham, very close to Ron, being ex G8UYD - so we know when he passed the RAE [probably]. Might even have been in the same building where I sat mine.

73 Graham M5AAV

10831. RE: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 19:29:39 UTC
From: Darwin, Keith
Topic: 10824 Message: 10831

The several TenTec rigs I've owned have been the opposite. Turn down the RF gain and the S-meter goes down. It seemed a bit more intuitive but wasn't as useful since S readings were only accurate with the RF gain up full.

On the 830s, the S-meter still reads correctly with the RF gain reduced. Provided, of course, the signal is strong enough to get some AGC action (i.e. strong enough to move the S-meter.

I like the 830s technique better.

- Keith N1AS -

-----Original Message-----

Even my on pair of SG2020's [one for each ear] as you decrease the RF gain the 's' indicator goes up. Likewise the 520 & 530 here.

10832. Ref TS520s PA Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 20:12:51 UTC
From: KEN (G3SDW)
Topic: 10832 Message: 10832

Still have not been able to find out the value of the above choke it is the one that sits in between the 2 pa tubes. Someone out there must know??
73
Ken
G3SDW....

10833. Re: What sound card/radio interface do you use with your 830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 21:32:37 UTC
From: james27613
Topic: 10817 Message: 10833

hi,

the signalink sl-1+

http://www.tigertronics.com/sl+main.htm

needs no usb or com ports on the computer or laptop,
is powered directly from your radio (some rigs can't do this)
uses sound activation to key the radio.

73 james

10834. Re: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 23:29:24 UTC
From: Another Old Codger
Topic: 10824 Message: 10834

Re: the RAE, I actually passed the Theory in the early 1950's. It was a two hour written exam. To my absolute amazement, I completed it in less than an hour and passed. I've mislaid my pass certificate somewhere, and I never bothered to get my C & G Certificate. In 1955 Commercial Television arrived, shortly afterwards I joined the staff, and promptly lost interest in 'Ham' Radio, (Well, we had 'big boy's toys' to play with. ;-)).

In 1978 I was persuaded to apply for my licence, I found I was dyslexic as far as Morse was concerned, so I finished up as a G8.

I would still like to master Morse, I regard it as the cr?me-de-la-cr?me of communication, it's simple to produce, simple to receive. What makes it worse is that some of my friends and colleagues are Masters of the Art!

I did pass that 'funny' test and became M3URU for a period. Strange thing was that they 'discovered' that I could send perfect code at about 8 w.p.m., yet I couldn't read anything!!!!

73 Ron G8URU

----- Original Message -----
From: "Graham Ridgeway" <m5aav@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 08, 2006 6:01 PM
Subject: Re: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

On Wed, 8 Nov 2006 13:00:09 -0000, Another Old Codger wrote:

>The simple answer is ,Yes. Unfortunately, that is the way that the S
>Meter works on most rigs of that era. Some later models do retain
>accuracy as the S Meter feed is obtained in a different way. I
>attempted to calibrate the Meter on my TS-530, using a very accurate
>Signal Generator, (TF-144), but the reading varies band to band. In
>reality, RST should be subjective, the S Meter does produce some
>hilarious reports, "You're 5 and 9 Old Man, sorry could you repeat
>you
>last over I couldn't read you!). We didn't have S Meters in the 40's
>and 50's, and if we did they were not accurate.
>
>73 Ron G8URU.
>

Agree totally.

Even my on pair of SG2020's [one for each ear] as you decrease the RF gain the 's' indicator goes up. Likewise the 520 & 530 here.

As for the old days - yes we did have 's' meters - usually homebrew - wheatstone bridge and a 1mA movement [just like Eddystones used] and the scales were never redrawn, they were just indicative.

Most accurate meter I've ever seen [once set up] on older kit was that on the BRT400 series, calibrated in db

Graham, very close to Ron, being ex G8UYD - so we know when he passed the RAE [probably]. Might even have been in the same building where I sat mine.

73 Graham M5AAV

10835. Help with an TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-08 22:07:10 UTC
From: Greg Gollan
Topic: 10835 Message: 10835

I have recently purchased a TS-820 and I have resolved the problem with the non functioning digital display. I have noticed that the HV reading on the meter is pegged over a 1000 volts all the time but drops back to about 950 when transmitting. Could this be a meter error or is the high reading a possible indication of some other area that may need attention?
Thanks
Greg

10836. Re: [TS-520_820_530_830] Ref TS520s PA Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 00:04:07 UTC
From: Another Old Codger
Topic: 10832 Message: 10836

Is this the choke that is electrically in line from the PA Plate/Anode connection, in other words the loading choke, (L2 in the TS-530 Schematic, L3 in the 820)? If it is then the equivalent component in the TS-530, (L2), is part no. L40-4791-02 Ferri-inductor 4.7 micro-H, decoupled by, (HT end), C8 0.01. Next in line is L1, is part no. L40-2792-02 Ferri-inductor 2.7 micro H, connected to the 800V rail.

Comparing the PA stage of the various models, I can't see much difference. I wonder why this choke failed, the most likely component would appear to be the coupling C to the Pi-coupler, any other tube/valve short usually blows one of the R 'fuses'.

73 Ron G8URU

----- Original Message -----
From: "KEN (G3SDW)" <g3sdw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 08, 2006 8:12 PM
Subject: [TS-520_820_530_830] Ref TS520s PA Choke

Still have not been able to find out the value of the above choke it is the one that sits in between the 2 pa tubes. Someone out there must know??
73
Ken
G3SDW....

10837. Re: Help with an TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 01:23:10 UTC
From: Clif
Topic: 10835 Message: 10837

If the AC voltage on the back panel is set correctly ie: 120v then I would say the metering resistors have changed in value. I doubt seriously it's making that much voltage. "Normal" is 900-925 in SSB with no audio and around 850 at full power out in CW. Also you might check your line voltage, it could be a tad high..

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan" <ggollan@...> wrote:
>
> I have recently purchased a TS-820 and I have resolved the problem with
> the non functioning digital display. I have noticed that the HV reading
> on the meter is pegged over a 1000 volts all the time but drops back to
> about 950 when transmitting. Could this be a meter error or is the high
> reading a possible indication of some other area that may need
> attention?
> Thanks
> Greg
>

10838. Mod to 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 01:57:58 UTC
From: w1ioo
Topic: 10838 Message: 10838

I have restored an 820s. The problem with the vfo was fixed, open diode D4. The system is working great. The question I have is there has been mods added. First a Fox-Tange filter YF88H2.1 (8.830 mhz) on a small ciruit board has been added. and the 8.830 mhz signal from the input to the IF board has been brought out to the back of the system. Does anyone have any idea why this was done and should I remove the filter and try to put the system back to original. Wally w1ioo

10839. Re: [inbox] Re: [TS-520_820_530_830] TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 03:24:47 UTC
From: Jeramy A. Ross
Topic: 10824 Message: 10839

Thanks to everyone for responding.

The long and short of it is that it's normal. That was good news to me.

A few brought up that they thought that the meter was reading low from my description. So I went and double checked things tonight. Here's the data:

Meter reading with RF-Gain set at 50% = 9.5
Meter reading with RF-Gain set at 20% and below = Meter pegged

Meter reading at 7100 kHz = 9.0

This corresponds with data points that others sent to me, and convinced me that I should double check my data when sending a email out in the wee hours of the morning.

Thanks again to all for your help, and educating me on this great rig!

Jeramy/W5XTL

10840. Re: [TS-520_820_530_830] Re: TS-820S RF Gain and S-Meter Reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 08:33:18 UTC
From: n9wb
Topic: 10824 Message: 10840

On my TS-820 my S meter pegs with the RF gain at # 1 to 2 on the RF gain. That would be lower than 9:00.

Vy 73, Walt N9WB

----- Original Message -----
From: Clif
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 08, 2006 12:39 PM
Subject: [TS-520_820_530_830] Re: TS-820S RF Gain and S-Meter Reading

That is the way the RF Gain control works, less RF Gain more S-meter. Unfortunately something is amiss in your setup. The S-meter should be pegged at 60 over somewhere between 10-12 o'clock on the RF Gain control. IT could be as simple as the S-meter isn't adjusted correctly or the RF Gain pot is not turning down all the way.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Jeramy A. Ross" <jeramy@...> wrote:
>
> Hello to the group. I have a small question about my recently acquired
> TS-820S. When I turn the RF-Gain down, the S-Meter reading increases in
> proportion. Once I have the RF-Gain down about 50% of max the meter
> stops responding to any signal received.. it just hangs out about half
> way on the scale. If I turn it down all the way, the meter reads about
> 2/3rd's up the scale. Is this normal?
>
> Other than this, the rig is great and functions perfectly. This really
> isn't a show-stopper. Just have never seen it before.
>
> Thanks in advance,
> Jeramy / W5XTL
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.13.32/523 - Release Date: 11/7/06

[Non-text portions of this message have been removed]

10841. Help with an TS-820 HV meter reading high.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 08:46:15 UTC
From: n9wb
Topic: 10841 Message: 10841

Gregg:

On the board called the HV unit, replace all of the resistors. The reason that I am suggesting such a shotgun approach is that all of the resisters except R-5, R-6, and R-7 affect the HV meter reading. However, R-5, R6, and R-7 are very well known to change value. These resistors are very inexpensive and are readily available.

Vy 73, Walt N9WB

----- Original Message -----
From: Greg Gollan
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 08, 2006 5:07 PM
Subject: [TS-520_820_530_830] Help with an TS-820

I have recently purchased a TS-820 and I have resolved the problem with the non functioning digital display. I have noticed that the HV reading on the meter is pegged over a 1000 volts all the time but drops back to about 950 when transmitting. Could this be a meter error or is the high reading a possible indication of some other area that may need attention?
Thanks
Greg

10842. Re: [TS-520_820_530_830] Mod to 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 09:19:06 UTC
From: n9wb
Topic: 10838 Message: 10842

The 8830 probably was brought out to accommodate the spectrum display in the Kenwood monitor scope. If done properly, it should be OK left as is.

There is probably is a means to switch filters from the 2.1 to the original 2.4. Often this is changed with the fixed crystal switch or the DH switch. Again, if this was done correctly, it is probably OK.

It is also possible that this a cascaded filter, one following the other.

My personal preference is that I do not like narrower filters for SSB. What I would do is place the 2.1 filter up for sale and use the money to purchase the INRAD model 88 2.8 filter. It has an extra pole and thus has very sharp skirts. It also has a very nice flat top of the curve. I paid $100.00 one and put it in my $45.00 TS-820S. I still feel that it was one of my best Ham Radio investments of all time. Being somewhat of an audiophile, it really increases the enjoyment I get from my TS-820. I will not argue that I am somewhat eccentric, however.

What you need to determine is what the filter does. Is it switched in or out? Is it cascaded ? Do you prefer a narrower filter. It will help some adjacent interference in a pile up, the trade off is that to me it sounds like I have wet cotton in my ears. This is a personal choice.

It also may have added by a RTTY user.

You may also want to look for a board attached to the back of the IF board that connects into the processor circuitry. It will have a round IC on it. If you have one, it is a W6TOG Magicom processor modification that replaces the compressor in the processor with a clipper. Again, if installed properly, it works quite well. Gordon has given me one and I am reverse engineering it. The only problem that I am having is identifying the limiter IC used. It is a round unit often used in FM limiter receive circuits of the era and is similar to the one used in the Yaesu FT-101 processor except that the one in the Yaesu is in line design.

----- Original Message -----
From: w1ioo
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 08, 2006 8:57 PM
Subject: [TS-520_820_530_830] Mod to 820s

I have restored an 820s. The problem with the vfo was fixed, open diode D4. The system is working great. The question I have is there has been mods added. First a Fox-Tange filter YF88H2.1 (8.830 mhz) on a small ciruit board has been added. and the 8.830 mhz signal from the input to the IF board has been brought out to the back of the system. Does anyone have any idea why this was done and should I remove the filter

and try to put the system back to original. Wally w1ioo

10843. Re: Ref TS520s PA Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 09:41:15 UTC
From: KEN (G3SDW)
Topic: 10832 Message: 10843

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
<clattering.ford@...> wrote:
>
> Is this the choke that is electrically in line from the PA
Plate/Anode
> connection, in other words the loading choke, (L2 in the TS-530
> Schematic, L3 in the 820)? If it is then the equivalent component
in
> the TS-530, (L2), is part no. L40-4791-02 Ferri-inductor 4.7 micro-
H,
> decoupled by, (HT end), C8 0.01. Next in line is L1, is part no.
> L40-2792-02 Ferri-inductor 2.7 micro H, connected to the 800V rail.
>
> Comparing the PA stage of the various models, I can't see much
> difference. I wonder why this choke failed, the most likely
component
> would appear to be the coupling C to the Pi-coupler, any other
> tube/valve short usually blows one of the R 'fuses'.
> Yes Ron the old one failed due to tubes the rest of the pa has
been rebuilt. The next thing to do is "SUCK IT AND SEE" hi hi. Will
let the group know what the out come is, thanks once again.
73
Ken
G3SDW....
> 73 Ron G8URU
>
> ----- Original Message -----
> From: "KEN (G3SDW)" <g3sdw@...>
> To: <TS-520_820_530_830@...m>
> Sent: Wednesday, November 08, 2006 8:12 PM
> Subject: [TS-520_820_530_830] Ref TS520s PA Choke
>
>
> Still have not been able to find out the value of the above choke
it
> is the one that sits in between the 2 pa tubes. Someone out there
must
> know??
> 73
> Ken
> G3SDW....
>

10844. TS520s PA Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 11:39:07 UTC
From: n9wb
Topic: 10844 Message: 10844

Are you sure that the plate choke is bad ? L1 is usually the one that opens up. It is the one under the chassis. There is a capacitor to ground between L1 and L2.

TS-520
The Final Plate Choke is designated as L2
Part # L33-0218-15
The Isolation Choke is designated as L1
Part #L33-0232-05
No values are given for either of these in the 520 manual.
.....

TS 820
The Final Plate Choke designated as L3
Part # is L33-0218-15
The Isolation Choke designated as L1
Part # is L33-0032-05
L-1 is listed in the TS-820 manual as .3 uH (point 3)
L-3 no value given.

.....

TS-830
The final plate choke is designated as L2
Part # is L33-0635-05
The Isolation Choke is designated :L-1
Part # is L40-6891-13
L-1 is listed in the 830 manual as 6.8 uH
No value is given for the Plate choke.
.....

Do not confuse these L #s with the ones listed for the Final Unit. The Final Unit parts are the ones mounted on the final circuit board.

It is possible that somebody replaced the 10 ohm resistors with ones of a higher wattage. Never do this. This will cause Plate and isolation choke failure if a tube flashes over or shorts.

The part #s for the 520 and 820 are the same so they will be interchangeable.

Vy 73, Walt N9WB

> ----- Original Message -----
> From: "KEN (G3SDW)" <g3sdw@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, November 08, 2006 8:12 PM

> Subject: [TS-520_820_530_830] Ref TS520s PA Choke
>
>
> Still have not been able to find out the value of the above choke
it
> is the one that sits in between the 2 pa tubes. Someone out there
must
> know??
> 73
> Ken
> G3SDW....
>

10845. Re: [TS-520_820_530_830] Mod to 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 13:49:17 UTC
From: Another Old Codger
Topic: 10838 Message: 10845

The 8.830 MHz signal was probably used with a Pan-Adaptor such as the SM-220 Station Monitor. The output is taken straight after the mixer.

73 Ron G8URU
----- Original Message -----
From: "w1ioo" <w1ioo@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, November 09, 2006 1:57 AM
Subject: [TS-520_820_530_830] Mod to 820s

I have restored an 820s. The problem with the vfo was fixed, open diode
D4. The system is working great. The question I have is there has been mods added. First a Fox-Tange filter YF88H2.1 (8.830 mhz) on a small ciruit board has been added. and the 8.830 mhz signal from the input to
the IF board has been brought out to the back of the system. Does anyone have any idea why this was done and should I remove the filter and try to put the system back to original. Wally w1ioo

10846. Re: [TS-520_820_530_830] Re: Ref TS520s PA Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 14:08:46 UTC
From: Another Old Codger
Topic: 10832 Message: 10846

Oh dear, oh dear I've done it again! I've given duff information. The Kenwood Schematic numbering system uses the same numbers several times, I was looking at the RF Unit, should have been General. The one we require is L2 L33-0635-05 Final Choke, no value is given, but, in various similar construction articles the value of 2.5 milli H is given, and it must be air spaced, ferrite will overheat. A Google for RF Choke produces quite a few answers. One article suggested Barker & Williamson, I couldn't find a RF Choke on their site.

Sorry about that, proves the point that you need to know the Manufactures logic to understand their manuals. Having worked mainly with Rank-Cintel gear, I thought that I could cope with anything :-(.

73 Ron G8URU

----- Original Message -----
From: "KEN (G3SDW)" <g3sdw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, November 09, 2006 9:41 AM
Subject: [TS-520_820_530_830] Re: Ref TS520s PA Choke

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger" <clattering.ford@...> wrote:
>
> Is this the choke that is electrically in line from the PA Plate/Anode
> connection, in other words the loading choke, (L2 in the TS-530
> Schematic, L3 in the 820)? If it is then the equivalent component in
> the TS-530, (L2), is part no. L40-4791-02 Ferri-inductor 4.7 micro-H,
> decoupled by, (HT end), C8 0.01. Next in line is L1, is part no.
> L40-2792-02 Ferri-inductor 2.7 micro H, connected to the 800V rail.
>
> Comparing the PA stage of the various models, I can't see much
> difference. I wonder why this choke failed, the most likely component
> would appear to be the coupling C to the Pi-coupler, any other
> tube/valve short usually blows one of the R 'fuses'.
> Yes Ron the old one failed due to tubes the rest of the pa has been rebuilt. The next thing to do is "SUCK IT AND SEE" hi hi. Will let the group know what the out come is, thanks once again.
73
Ken
G3SDW....
> 73 Ron G8URU

>
> ----- Original Message -----
> From: "KEN (G3SDW)" <g3sdw@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, November 08, 2006 8:12 PM
> Subject: [TS-520_820_530_830] Ref TS520s PA Choke
>
>
> Still have not been able to find out the value of the above choke
it
> is the one that sits in between the 2 pa tubes. Someone out there
must
> know??
> 73
> Ken
> G3SDW....
>

10847. Re: Uploading Files 2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 15:24:24 UTC
From: Another Old Codger
Topic: 10847 Message: 10847

I should have looked, TS-530 Service Manual is already a link on
Gordon's Kenwood Page. It is the same one that I have, 515.

Please put it down to old age!!!

73 Ron G8URU

10848. Re: Uploading Files.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 15:12:06 UTC
From: Another Old Codger
Topic: 10848 Message: 10848

I've tried to upload the TS-530 Service Manual, it looks as if the 'store' is nearly full, and there is only around 5 Meg space left. The Manual is over 7 Meg as a Pdf, zipping doesn't make that much difference.

Please, Mr. Moderator what shall I do?

73 Ron G8URU.

10849. Re: Help with an TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-09 16:59:06 UTC
From: Ellen R
Topic: 10835 Message: 10849

Hi Greg. I have a TS-820. You could check meter calibration, but if it were me, I'd play it safe, and assume that it's a component failure. Kenwood hybrids typically run 900V for the HV plate voltage,. This is higher than what 6146Bs are usually run at (and is one of the reasons why you can't get away with using junky 6146Bs in them - they'll give you problems). 1000V is WAY too much voltage on the plates. Have you checked the idle/biasing current, per the manual procedure? It should be 60mA. Running it too high will cause the plate voltage to run high during transmit.

If that is OK, you might want to check the resistors on the Finals Board. The 10 Ohm and 100 Ohm resistors will fail with age, and screw up the plate voltage. Replace any of those that don't make spec. Don't use higher wattage resistors than the specification calls for (1/2 watt for the 100 Ohm resistors, and 1 watt for the 10 Ohm resistors). The reason these resistors are the values that they are, is that like a Marshall tube amp I had years ago, these finals resistors serve as last ditch fusing to protect the finals and power supply transformer from voltage & current surges.

If the 10 & 100 Ohm Finals Board resistors are fine, then you might have to do what I did, when I knocked out my TS-820, after I made the mistake of putting in Chinese 6146Ws - check out the High Voltage Board. I had some 12K Ohm reistors that were burned out, you might have these or other resistors on the board, that are going, and messing up the high voltage feed. They are carbon comp resistors, which will break down with age. I put in metal film resistors for durability. You don't have to do this, but stick to the same power rating for them.

Good luck & let us know what happens.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan" <ggollan@...> wrote:
>
> I have recently purchased a TS-820 and I have resolved the problem with
> the non functioning digital display. I have noticed that the HV reading
> on the meter is pegged over a 1000 volts all the time but drops back to
> about 950 when transmitting. Could this be a meter error or is the high
> reading a possible indication of some other area that may need
> attention?

> Thanks
> Greg
>

10850. Re: [TS-520_820_530_830] Mod to 820s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 00:27:40 UTC
From: John Harp
Topic: 10838 Message: 10850

Hi Wally, I'm guessing at the mods you are looking at, but my thought is this: If it works ok for you use it. It may seem a little narrow on side band for your liking.

As for the hook ups out the rear, it's probably a display like the Pan used in the SM-220. BS-8 pan displys are a harder to find item, probably they substituted. Operation should not be affected if this is the case.

As for the filter change, it may sound a little muffled because of the narrowing of the bandwidth. I heard of someone doing this once for RTTY. If it bothers you get a stock filter or do the mod some others have been doing here recently in the group to enhance the audio quality.

It sounds to me like you should be able to use the 820. If your into CW it won't be a problem there.

w1ioo <w1ioo@...> wrote:
I have restored an 820s. The problem with the vfo was fixed, open diode
D4. The system is working great. The question I have is there has been
mods added. First a Fox-Tange filter YF88H2.1 (8.830 mhz) on a small
ciruit board has been added. and the 8.830 mhz signal from the input to
the IF board has been brought out to the back of the system. Does
anyone have any idea why this was done and should I remove the filter
and try to put the system back to original. Wally w1ioo

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10851. Re: Help with an TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 04:12:48 UTC
From: Greg Gollan
Topic: 10835 Message: 10851

Thanks to everyone for their replies.

I noticed that my TS 520 shows no HV unless I'm transmitting which then shows the 850 volts. My 820 HV shows the meter pegged whether I'm transmitting or not. This can't be normal? Shouldn't the meter on the 820 act the same as the 520?

I have checked line voltage and it is 118 volts and I have the idle/bias set at 60 ma. What would cause the meter to go to full deflection when set to HV while not transmitting and work normal for the all other settings?

I appreciate all your help and apologize for not indicating that the meter reading was full deflection when not transmitting.

Greg

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Greg. I have a TS-820. You could check meter calibration, but if
> it were me, I'd play it safe, and assume that it's a component
> failure. Kenwood hybrids typically run 900V for the HV plate
> voltage,. This is higher than what 6146Bs are usually run at (and is
> one of the reasons why you can't get away with using junky 6146Bs in
> them - they'll give you problems). 1000V is WAY too much voltage on
> the plates. Have you checked the idle/biasing current, per the manual
> procedure? It should be 60mA. Running it too high will cause the
> plate voltage to run high during transmit.
>
> If that is OK, you might want to check the resistors on the Finals
> Board. The 10 Ohm and 100 Ohm resistors will fail with age, and screw
> up the plate voltage. Replace any of those that don't make spec.
> Don't use higher wattage resistors than the specification calls for
> (1/2 watt for the 100 Ohm resistors, and 1 watt for the 10 Ohm
> resistors). The reason these resistors are the values that they are,
> is that like a Marshall tube amp I had years ago, these finals
> resistors serve as last ditch fusing to protect the finals and power

> supply transformer from voltage & current surges.
>
> If the 10 & 100 Ohm Finals Board resistors are fine, then you might
> have to do what I did, when I knocked out my TS-820, after I made
the
> mistake of putting in Chinese 6146Ws - check out the High Voltage
> Board. I had some 12K Ohm reistors that were burned out, you might
> have these or other resistors on the board, that are going, and
messing
> up the high voltage feed. They are carbon comp resistors, which
will
> break down with age. I put in metal film resistors for
durability.
> You don't have to do this, but stick to the same power rating for
them.
>
> Good luck & let us know what happens.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan" <ggollan@>
> wrote:
> >
> > I have recently purchased a TS-820 and I have resolved the
problem
> with
> > the non functioning digital display. I have noticed that the HV
> reading
> > on the meter is pegged over a 1000 volts all the time but drops
back
> to
> > about 950 when transmitting. Could this be a meter error or is
the
> high
> > reading a possible indication of some other area that may need
> > attention?
> > Thanks
> > Greg
> >
>

10852. Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 04:14:04 UTC
From: kerrygeek1
Topic: 10852 Message: 10852

I just joined the group this evening and am already asking for help! ;-) A friend, fairly new ham, just got an 380S last weekend at a hamfest and asked me to hook it up and check it out for him. I've always been a big fan of these rigs, an old friend had an 820 back when I still had an HW-101 and I used to love to go to his place and operate it.

Here's the problem. This 830S has plenty of power, tunes up fine but has no mic audio and no CW sidetone. Since there's no sidetone, you can't key the rig with CW to work semi break-in. If you flip the t/r switch, you get full output on CW but no sidetone. I know the mic is good, I tested it on my other rig and also tried a known-good mic on this 830.

Since it uses the sidetone to key the vox, I assume the 2 problems are related (no sidetone, no mic audio). Any ideas where to look? I don't really have any test
equipment anymore other than a good DVM, I got rid of my scope the last time we moved (bad mistake...) If you guys have any ideas, maybe I can whip up a little audio amp or something to try to trace out an audio signal.

This rig also has a little switch on the back, apparently a CB mod, on the 29MHz band position it's actually on 27MHz. If he keeps it we'll do away with that little mod...

Other than the lack of any tx audio, the rig works fine on rx and sounds great, just like I remembered.

Any ideas?

Tnx,
Kerry, WD5ABC
Victoria, TX

10853. Re: [TS-520_820_530_830] Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 04:51:42 UTC
From: N6WK
Topic: 10852 Message: 10853

Hi Kerry,' If you check, You will find some open Resistors on the Rectifier Board. Typical symptoms are NO sidetone and No Mic Audio. Very easy fix.

I believe the resistors will be R13 and/or R 12 on the Rectifier board. They are 100k resistors.

73,
Gordon

kerrygeek1 wrote:

> I just joined the group this evening and am already asking for help!
> ;-) A friend, fairly new ham, just got an 380S last weekend at a
> hamfest and asked me to hook it up and check it out for him. I've
> always been a big fan of these rigs, an old friend had an 820 back
> when I still had an HW-101 and I used to love to go to his place and
> operate it.
>
> Here's the problem. This 830S has plenty of power, tunes up fine but
> has no mic audio and no CW sidetone. Since there's no sidetone, you
> can't key the rig with CW to work semi break-in. If you flip the t/r
> switch, you get full output on CW but no sidetone. I know the mic is
> good, I tested it on my other rig and also tried a known-good mic on
> this 830.
>
> Since it uses the sidetone to key the vox, I assume the 2 problems are
> related (no sidetone, no mic audio). Any ideas where to look? I
> don't really have any test
> equipment anymore other than a good DVM, I got rid of my scope the
> last time we moved (bad mistake...) If you guys have any ideas, maybe
> I can whip up a little audio amp or something to try to trace out an
> audio signal.
>
> This rig also has a little switch on the back, apparently a CB mod, on
> the 29MHz band position it's actually on 27MHz. If he keeps it we'll
> do away with that little mod...
>
> Other than the lack of any tx audio, the rig works fine on rx and
> sounds great, just like I remembered.
>
> Any ideas?
>
> Tnx,
> Kerry, WD5ABC
> Victoria, TX

>
>

[Non-text portions of this message have been removed]

10854. Re: [TS-520_820_530_830] Re: Help with an TS-820

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 10:49:03 UTC
From: n9wb
Topic: 10835 Message: 10854

Did you get the list of resistors I sent you to replace. I am sure that this will solve your problem. If you did not, I will re-send it.

Vy 73, Walt N9WB

----- Original Message -----
From: Greg Gollan
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 09, 2006 11:12 PM
Subject: [TS-520_820_530_830] Re: Help with an TS-820

Thanks to everyone for their replies.

I noticed that my TS 520 shows no HV unless I'm transmitting which then shows the 850 volts. My 820 HV shows the meter pegged whether I'm transmitting or not. This can't be normal? Shouldn't the meter on the 820 act the same as the 520?

I have checked line voltage and it is 118 volts and I have the idle/bias set at 60 ma. What would cause the meter to go to full deflection when set to HV while not transmitting and work normal for the all other settings?

I appreciate all your help and apologize for not indicating that the meter reading was full deflection when not transmitting.

Greg

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
>
> Hi Greg. I have a TS-820. You could check meter calibration, but if
> it were me, I'd play it safe, and assume that it's a component
> failure. Kenwood hybrids typically run 900V for the HV plate
> voltage,. This is higher than what 6146Bs are usually run at (and is
> one of the reasons why you can't get away with using junky 6146Bs in
> them - they'll give you problems). 1000V is WAY too much voltage on
> the plates. Have you checked the idle/biasing current, per the manual
> procedure? It should be 60mA. Running it too high will cause the
> plate voltage to run high during transmit.
>
> If that is OK, you might want to check the resistors on the Finals

> Board. The 10 Ohm and 100 Ohm resistors will fail with age, and
screw
> up the plate voltage. Replace any of those that don't make spec.
> Don't use higher wattage resistors than the specification calls for
> (1/2 watt for the 100 Ohm resistors, and 1 watt for the 10 Ohm
> resistors). The reason these resistors are the values that they
are,
> is that like a Marshall tube amp I had years ago, these finals
> resistors serve as last ditch fusing to protect the finals and
power
> supply transformer from voltage & current surges.
>
> If the 10 & 100 Ohm Finals Board resistors are fine, then you might
> have to do what I did, when I knocked out my TS-820, after I made
the
> mistake of putting in Chinese 6146Ws - check out the High Voltage
> Board. I had some 12K Ohm reistors that were burned out, you might
> have these or other resistors on the board, that are going, and
messing
> up the high voltage feed. They are carbon comp resistors, which
will
> break down with age. I put in metal film resistors for
durability.
> You don't have to do this, but stick to the same power rating for
them.
>
> Good luck & let us know what happens.
>
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan" <ggollan@>
> wrote:
> >
> > I have recently purchased a TS-820 and I have resolved the
problem
> with
> > the non functioning digital display. I have noticed that the HV
> reading
> > on the meter is pegged over a 1000 volts all the time but drops
back
> to
> > about 950 when transmitting. Could this be a meter error or is
the
> high
> > reading a possible indication of some other area that may need
> > attention?
> > Thanks
> > Greg
> >
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.0/524 - Release Date: 11/8/06

[Non-text portions of this message have been removed]

10855. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 14:09:27 UTC
From: kerrygeek1
Topic: 10852 Message: 10855

Perfect, I knew somebody on here had probably seen it before. I'll
get the rig back from him tonight and take a look at it.

Thanks!
Kerry
PS I really do know the difference between a 380 and an 830, I just
can't type...

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Hi Kerry,' If you check, You will find some open Resistors on the
> Rectifier Board. Typical symptoms are NO sidetone and No Mic Audio.
> Very easy fix.
>
> I believe the resistors will be R13 and/or R 12 on the Rectifier
> board. They are 100k resistors.
>
> 73,
> Gordon
>
>
>
> kerrygeek1 wrote:
>
> > I just joined the group this evening and am already asking for help!
> > ;-) A friend, fairly new ham, just got an 380S last weekend at a
> > hamfest and asked me to hook it up and check it out for him. I've
> > always been a big fan of these rigs, an old friend had an 820 back
> > when I still had an HW-101 and I used to love to go to his place and
> > operate it.
> >
> > Here's the problem. This 830S has plenty of power, tunes up fine but
> > has no mic audio and no CW sidetone. Since there's no sidetone, you
> > can't key the rig with CW to work semi break-in. If you flip the t/r
> > switch, you get full output on CW but no sidetone. I know the mic is
> > good, I tested it on my other rig and also tried a known-good mic on
> > this 830.
> >
> > Since it uses the sidetone to key the vox, I assume the 2 problems are
> > related (no sidetone, no mic audio). Any ideas where to look? I
> > don't really have any test
> > equipment anymore other than a good DVM, I got rid of my scope the
> > last time we moved (bad mistake...) If you guys have any ideas, maybe
> > I can whip up a little audio amp or something to try to trace out an
> > audio signal.

> >
> > This rig also has a little switch on the back, apparently a CB mod, on
> > the 29MHz band position it's actually on 27MHz. If he keeps it we'll
> > do away with that little mod...
> >
> > Other than the lack of any tx audio, the rig works fine on rx and
> > sounds great, just like I remembered.
> >
> > Any ideas?
> >
> > Tnx,
> > Kerry, WD5ABC
> > Victoria, TX
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10856. Thanks for the sound card feedback on the TS830S! Mic only, huh? : - (

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 15:34:46 UTC
From: Johnne Ables
Topic: 10856 Message: 10856

Thanks for the information, Guys!

It seems that the only way to do digital with the TS830S is through the microphone input, huh? I hate the thought of switiching back and forth; I was hoping there was a way to use some of the connectors on the rear panel.

Oh well, I guess that's the price of using a 'classic'!

Thanks again!

73 DE W1YB - Johnne

10857. ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 16:15:16 UTC
From: gary Samouris
Topic: 10857 Message: 10857

I have a ts-520 that has about 2 watts output in the tune position. The drive adjustment works fine, deflecting the ALC. Idle current is fine, set a 60 mils. No plate current or power out on the meters in the tune position. If you directly to CW, you can tune just fine and the radio appears to work ok, putting out about 120 watts. Seems to do it on all bands. Any suggestions are appreciated.

[Non-text portions of this message have been removed]

10858. Re: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 17:22:11 UTC
From: Ken Winterling
Topic: 10857 Message: 10858

Gary,

I am at work and doing this from memory so don't hold me to the details. On the HV unit there is a resistor that is switched in only in tune mode. I think it it on the 210 line. Find the switch segment where the wiper connects to the SG switch. You will find a resistor that is switched in only in the tune position and the other terminals are jumpered together. That switched in resistor is open or has changed to a very high value.

If I was home and had access to the roadmap I could give you more specifics. If I don't see a response when I get home tonight I'll pull the schematic and send you the exact information.

Ken, WA2LBI

On 11/10/06, gary Samouris <gsammy52@...> wrote:
> I have a ts-520 that has about 2 watts output in the tune position. The drive adjustment works fine, deflecting the ALC. Idle current is fine, set a 60 mils. No plate current or power out on the meters in the tune position. If you directly to CW, you can tune just fine and the radio appears to work ok, putting out about 120 watts. Seems to do it on all bands. Any suggestions are appreciated.
>

10859. Re: [TS-520_820_530_830] Thanks for the sound card feedback on the TS830S! Mic only, huh? : - (

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 17:47:34 UTC
From: Dave and Loraine
Topic: 10856 Message: 10859

Hi,
On my TS-820S, I use the rear phone patch with VOX.
73 Dave F4EYK

10860. Re: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 18:32:08 UTC
From: N6WK
Topic: 10857 Message: 10860

Yes, You are correct Ken.
It is R15 on the Rectifier Board. It is a 56K resistor.
There also is R16 which is also a 56k resistor but I'm betting on R15
being open or way high in value.

Gordon

Ken Winterling wrote:

> Gary,
>
> I am at work and doing this from memory so don't hold me to the
> details. On the HV unit there is a resistor that is switched in only
> in tune mode. I think it it on the 210 line. Find the switch segment
> where the wiper connects to the SG switch. You will find a resistor
> that is switched in only in the tune position and the other terminals
> are jumpered together. That switched in resistor is open or has
> changed to a very high value.
>
> If I was home and had access to the roadmap I could give you more
> specifics. If I don't see a response when I get home tonight I'll
> pull the schematic and send you the exact information.
>
> Ken, WA2LBI
>
> On 11/10/06, gary Samouris <gsammy52@...
> <mailto:gsammy52%40sbcglobal.net>> wrote:
> > I have a ts-520 that has about 2 watts output in the tune position.
> The drive adjustment works fine, deflecting the ALC. Idle current is
> fine, set a 60 mils. No plate current or power out on the meters in
> the tune position. If you directly to CW, you can tune just fine and
> the radio appears to work ok, putting out about 120 watts. Seems to do
> it on all bands. Any suggestions are appreciated.
> >
>
>

[Non-text portions of this message have been removed]

10861. RE: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 18:28:43 UTC
From: Sean.....He's the cat that won't cop out
Topic: 10857 Message: 10861

Perhaps I am missing something but isn't that is exactly how the radio is supposed to work. The tune position is a very low power setting so you sort of pre-tune before doing the final dipping with key down.

-Sean
N9FQ

>From: gary Samouris <gsammy52@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] ts520 tuneup problem
>Date: Fri, 10 Nov 2006 08:15:16 -0800 (PST)
>
>I have a ts-520 that has about 2 watts output in the tune position. The
>drive adjustment works fine, deflecting the ALC. Idle current is fine, set
>a 60 mils. No plate current or power out on the meters in the tune
>position. If you directly to CW, you can tune just fine and the radio
>appears to work ok, putting out about 120 watts. Seems to do it on all
>bands. Any suggestions are appreciated.
>
>[Non-text portions of this message have been removed]
>
>

Try Search Survival Kits: Fix up your home and better handle your cash with
Live Search!
http://imagine-windowslive.com/search/kits/default.aspx?kit=improve&locale=en-US&source=hm
tagline

10862. Re: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 19:37:29 UTC
From: n9wb
Topic: 10857 Message: 10862

Find the HV unit board. Replace all of the resistors and the one capacitor on this board. These parts are very common and can be obtained from Radio Shack, Fry's, Mouser, or Ceitron. They are cheap. I bet a dollar that this will fix your problem and some other problems that you do not know you have.

Vy 73, Walt N9WB

----- Original Message -----
From: gary Samouris
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 10, 2006 11:15 AM
Subject: [TS-520_820_530_830] ts520 tuneup problem

I have a ts-520 that has about 2 watts output in the tune position. The drive adjustment works fine, deflecting the ALC. Idle current is fine, set a 60 mils. No plate current or power out on the meters in the tune position. If you directly to CW, you can tune just fine and the radio appears to work ok, putting out about 120 watts. Seems to do it on all bands. Any suggestions are appreciated.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.1/527 - Release Date: 11/9/06

[Non-text portions of this message have been removed]

10863. Re: Thanks for the sound card feedback on the TS830S! Mic only, huh? :-(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 19:42:25 UTC
From: kerrygeek1
Topic: 10856 Message: 10863

Back when we did this (the first time around with one of these rigs in the 80s) I built a little box with 2 mic jacks on it, one for the mic and one for the other input (a tnc, in this case). We tied the grounds together and used a switch to switch between the audio and key lines of the mic and the tnc. It works great and you don't have to keep unplugging the mic.

I work mostly CW now so I don't use my mic much anyway but that was the best way to do it back when you didn't have the other connectiosn on the back.

73,
Kerry, WD5ABC
Victoria, TX

--- In TS-520_820_530_830@yahoogroups.com, "Johnne Ables" <johnne507@...> wrote:
>
> Thanks for the information, Guys!
>
> It seems that the only way to do digital with the TS830S is through
> the microphone input, huh? I hate the thought of switiching back and
> forth; I was hoping there was a way to use some of the connectors on
> the rear panel.
>
> Oh well, I guess that's the price of using a 'classic'!
>
> Thanks again!
>
> 73 DE W1YB - Johnne
>

10864. Re: Thanks for the sound card feedback on the TS830S! Mic only, huh? :-(

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 20:23:45 UTC
From: ve3tmt
Topic: 10856 Message: 10864

--- In TS-520_820_530_830@yahoogroups.com, "Johnne Ables" <johnne507@...> wrote:
>
> Thanks for the information, Guys!
>
> It seems that the only way to do digital with the TS830S is through
> the microphone input, huh? I hate the thought of switiching back and
> forth; I was hoping there was a way to use some of the connectors on
> the rear panel.

Buy a RigBlaster! It will solve all your problems. Or Install an RCA jack in one of the spare holes on the back of the 830 and wire it in parallel with you mic input line.

Max VE3TMT

10866. Re: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 20:32:12 UTC
From: gary Samouris
Topic: 10857 Message: 10866

Thanks to everyone who replied. I checked R6, 56K resistor on the HV board as suggested. It was wide open. I replaced it with a 47K from radio shack and the problem has be cured... Thank you again.

n9wb <n9wb@...> wrote: Find the HV unit board. Replace all of the resistors and the one capacitor on this board. These parts are very common and can be obtained from Radio Shack, Fry's, Mouser, or Ceitron. They are cheap. I bet a dollar that this will fix your problem and some other problems that you do not know you have.

Vy 73, Walt N9WB

----- Original Message -----
From: gary Samouris
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 10, 2006 11:15 AM
Subject: [TS-520_820_530_830] ts520 tuneup problem

I have a ts-520 that has about 2 watts output in the tune position. The drive adjustment works fine, deflecting the ALC. Idle current is fine, set a 60 mils. No plate current or power out on the meters in the tune position. If you directly to CW, you can tune just fine and the radio appears to work ok, putting out about 120 watts. Seems to do it on all bands. Any suggestions are appreciated.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.1/527 - Release Date: 11/9/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10867. 520 tune up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 20:47:09 UTC
From: gary Samouris
Topic: 10867 Message: 10867

I have one more question.... When tuning up the ts 520 transmitter, I dip the plate as directed, then go to RF and peak the plate and load. After doing this, I look at the plate current and it is very high. I can then get it to dip to normal value by adjusting the plate control again. Shouldn't the plate be dipped when the RF out is at its peak. I can't find anything on this in the book. Anyone got the solution
thanks
gary KC5BJ

[Non-text portions of this message have been removed]

10868. Re: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 21:03:35 UTC
From: N6WK
Topic: 10857 Message: 10868

Sean,
yes, The power is supposed to be less in the Tune position but, you
should still get plate current and you should get power out way in
excess of 2 watts.

Gordon
N6WK

Sean.....He's the cat that won't cop out even when there's danger all
about..... wrote:

> Perhaps I am missing something but isn't that is exactly how the radio is
> supposed to work. The tune position is a very low power setting so you
> sort
> of pre-tune before doing the final dipping with key down.
>
> -Sean
> N9FQ
>
> >From: gary Samouris <gsammy52@...
> <mailto:gsammy52%40sbcglobal.net>>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> >To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> >Subject: [TS-520_820_530_830] ts520 tuneup problem
> >Date: Fri, 10 Nov 2006 08:15:16 -0800 (PST)
> >
> >I have a ts-520 that has about 2 watts output in the tune position. The
> >drive adjustment works fine, deflecting the ALC. Idle current is
> fine, set
> >a 60 mils. No plate current or power out on the meters in the tune
> >position. If you directly to CW, you can tune just fine and the radio
> >appears to work ok, putting out about 120 watts. Seems to do it on all
> >bands. Any suggestions are appreciated.
> >
> >[Non-text portions of this message have been removed]
> >
> >
>
> _____
> Try Search Survival Kits: Fix up your home and better handle your cash
> with
> Live Search!
> http://imagine-windowslive.com/search/kits/default.aspx?kit=improve&locale=en-US&source=
hmtagline

> <http://imagine-windowslive.com/search/kits/default.aspx?kit=improve&locale=en-US&source
=hmtagline>
>
>

[Non-text portions of this message have been removed]

10869. Re: ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 21:11:13 UTC
From: Gordon
Topic: 10857 Message: 10869

OOOPS,
Those numbers are for an 830 not a 520. My mistake.
The 56k R6 resistor on the 520 was on the HV board.
Its on the rectifier Board in the 830.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Yes, You are correct Ken.
> It is R15 on the Rectifier Board. It is a 56K resistor.
> There also is R16 which is also a 56k resistor but I'm betting on R15
> being open or way high in value.
>
> Gordon
>
>
> Ken Winterling wrote:
>
> > Gary,
> >
> > I am at work and doing this from memory so don't hold me to the
> > details. On the HV unit there is a resistor that is switched in only
> > in tune mode. I think it it on the 210 line. Find the switch segment
> > where the wiper connects to the SG switch. You will find a resistor
> > that is switched in only in the tune position and the other terminals
> > are jumpered together. That switched in resistor is open or has
> > changed to a very high value.
> >
> > If I was home and had access to the roadmap I could give you more
> > specifics. If I don't see a response when I get home tonight I'll
> > pull the schematic and send you the exact information.
> >
> > Ken, WA2LBI
> >
> > On 11/10/06, gary Samouris <gsammy52@...
> > <mailto:gsammy52%40sbcglobal.net>> wrote:
> > > I have a ts-520 that has about 2 watts output in the tune position.
> > The drive adjustment works fine, deflecting the ALC. Idle current is
> > fine, set a 60 mils. No plate current or power out on the meters in
> > the tune position. If you directly to CW, you can tune just fine and
> > the radio appears to work ok, putting out about 120 watts. Seems
to do
> > it on all bands. Any suggestions are appreciated.
> > >

> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10870. Re: 520 tune up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 22:06:18 UTC
From: Ellen R
Topic: 10867 Message: 10870

Hi Gary,

I have a TS-820. It behaves the same way as your 520, the 520S, the 820S, 530S, 830S, and most tube rigs for that matter. You will have to repeat dipping the plate current, and peaking the load, until they both settle down, and quit changing. Each time you go through a cycle of dipping and peaking you will notice that there is less of a change in each of them, until they finally stop changing. When this happens, you have the finals tuned. This is also the point, when they will put out maximum power. This all should be emntioned in your TS-520 manual.

I actually forgot about doing this, when I got my TS-820 (hadn't used a rig with tube finals since the early 90s), and couldn't figure out why, even after putting in a new set of finals, I couldn't get more than about 70W out of it. Luckily for me, Walt, N9WB posted a comment about finals tuning for one of the group members, and I said to myself, "duh!, guess what I'm forgetting to do!." Once I realized this, and properly tuned up the finals (it takes me about 30 or 40 seconds to do [I used tube rigs in the 80s & early 90s, so I'm practiced at doing it]), I was able to get 115-120 plus watts out of my TS-820.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, gary Samouris <gsammy52@...> wrote:
>
> I have one more question.... When tuning up the ts 520 transmitter, I dip the plate as directed, then go to RF and peak the plate and load. After doing this, I look at the plate current and it is very high. I can then get it to dip to normal value by adjusting the plate control again. Shouldn't the plate be dipped when the RF out is at its peak. I can't find anything on this in the book. Anyone got the solution
> thanks
> gary KC5BJ
>
>
>
> [Non-text portions of this message have been removed]
>

10871. Re: [TS-520_820_530_830] Re: 520 tune up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 22:57:21 UTC
From: Peter A Markavage
Topic: 10867 Message: 10871

It would also be helpful, in the case of tune up issues, it's mentioned what frequency you're doing the tuning up. Although the tune up procedures are the same for any frequency, the "meter actions", are somewhat different between 160 or 80 meters and say 10 meters.

Pete, wa2cwa

On Fri, 10 Nov 2006 22:06:18 -0000 "Ellen R" <ellenjoanne2003@...> writes:
> Hi Gary,
>
> I have a TS-820. It behaves the same way as your 520, the 520S, the
>
> 820S, 530S, 830S, and most tube rigs for that matter. You will have
>
> to repeat dipping the plate current, and peaking the load, until
> they
> both settle down, and quit changing. Each time you go through a
> cycle of dipping and peaking you will notice that there is less of a
>
> change in each of them, until they finally stop changing. When this
>
> happens, you have the finals tuned. This is also the point, when
> they will put out maximum power. This all should be emntioned in
> your TS-520 manual.
>
> I actually forgot about doing this, when I got my TS-820 (hadn't
> used
> a rig with tube finals since the early 90s), and couldn't figure out
>
> why, even after putting in a new set of finals, I couldn't get more
>
> than about 70W out of it. Luckily for me, Walt, N9WB posted a
> comment about finals tuning for one of the group members, and I said
>
> to myself, "duh!, guess what I'm forgetting to do!." Once I
> realized
> this, and properly tuned up the finals (it takes me about 30 or 40
> seconds to do [I used tube rigs in the 80s & early 90s, so I'm
> practiced at doing it]), I was able to get 115-120 plus watts out of
>
> my TS-820.
>
> 73,
> Ellen - AF9J

>
> --- In TS-520_820_530_830@yahoogroups.com, gary Samouris
> <gsammy52@...> wrote:
> >
> > I have one more question.... When tuning up the ts 520
> transmitter, I dip the plate as directed, then go to RF and peak
> the plate and load. After doing this, I look at the plate current
> and it is very high. I can then get it to dip to normal value by
> adjusting the plate control again. Shouldn't the plate be dipped
> when the RF out is at its peak. I can't find anything on this in
> the
> book. Anyone got the solution
> > thanks
> > gary KC5BJ
>

10872. Re: [TS-520_820_530_830] Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-10 23:57:53 UTC
From: John Harp
Topic: 10852 Message: 10872

IS your problem no audio tone at all or just doesn't have audio tone when keying? You will only have the side tone for CW when in the CW position. When this position is on AND the VOX is turned on with thedelay set it should do the semi-breakin for you. As for the side band positions, the mic will work over there only when it's in the LSB or USB modes. Vox will work or T/R switch is flipped. don't forget to set the delay too.

Welcome to the group. We all started out that way. Well most of us. So don't feel any different, as we understand. you'll get responses here. It's a large group and active and they do watch and help out. Sometimes there's a question goes round and no answer comes easy but we all try. It's a good team. Good topics go around here too. Check out the archives while your at it. Good resource and good tools go a long ways. Watch the mail as it goes and you'll be amazed at what you'll learn here in no time.

kerrygeek1 <kmiller01@...> wrote:
I just joined the group this evening and am already asking for help!
;-) A friend, fairly new ham, just got an 380S last weekend at a
hamfest and asked me to hook it up and check it out for him. I've
always been a big fan of these rigs, an old friend had an 820 back
when I still had an HW-101 and I used to love to go to his place and
operate it.

Here's the problem. This 830S has plenty of power, tunes up fine but
has no mic audio and no CW sidetone. Since there's no sidetone, you
can't key the rig with CW to work semi break-in. If you flip the t/r
switch, you get full output on CW but no sidetone. I know the mic is
good, I tested it on my other rig and also tried a known-good mic on
this 830.

Since it uses the sidetone to key the vox, I assume the 2 problems are
related (no sidetone, no mic audio). Any ideas where to look? I
don't really have any test
equipment anymore other than a good DVM, I got rid of my scope the
last time we moved (bad mistake...) If you guys have any ideas, maybe
I can whip up a little audio amp or something to try to trace out an
audio signal.

This rig also has a little switch on the back, apparently a CB mod, on
the 29MHz band position it's actually on 27MHz. If he keeps it we'll
do away with that little mod...

Other than the lack of any tx audio, the rig works fine on rx and
sounds great, just like I remembered.

Any ideas?

Tnx,
Kerry, WD5ABC

Victoria, TX

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10873. Re: [TS-520_820_530_830] ts520 tuneup problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 00:06:00 UTC
From: John Harp
Topic: 10857 Message: 10873

Gary, I'm not sure the question your asking here. The Tune position is where the radio is tuned up at reduced power to avoid damage. When you have the radio tuned then switch to CW for sending code or switch to LSB or USB for voice. you can readjust while you are there just a little, but tune is for adjusting the radio at low power before you go to high power.

Does this help you?

gary Samouris <gsammy52@...> wrote:
I have a ts-520 that has about 2 watts output in the tune position. The drive adjustment works fine, deflecting the ALC. Idle current is fine, set a 60 mils. No plate current or power out on the meters in the tune position. If you directly to CW, you can tune just fine and the radio appears to work ok, putting out about 120 watts. Seems to do it on all bands. Any suggestions are appreciated.

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10874. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 05:15:28 UTC
From: kerrygeek1
Topic: 10852 Message: 10874

No, there are 2 different problems that I believe are probably related. I know this rig uses the sidetone to key the vox on cw, but there's no sidetone. On USB or LSB, there's no mic audio.

I don't have a scope so tonight I poked around with an old set of headphones to see if I could find some mic audio. They were a cheap set of Walkman-style headphones so I guess they're low-Z. I grounded one side of the phones and probed around with the other side. When I touched the audio lead on the compression level pot, it started getting audio out. I clipped a 470 ohm resistor from the same point to ground, it also had audio then. Still no sidetone but that got mic audio to work.

Also, while I'm clipped to that connector on the compression level pot, if I turn the processor on the audio goes away again. While I'm clipped on, I can hear myself in the monitor just fine as long as I don't unclip the headset or resistor or turn on the processor.

Does that help give anybody any ideas? I don't just want mic audio, I want to fix it right so we'll have sidetone too. I'm trying to make him into a CW op!

Thanks for all the help guys, I'm still tinkering...but I'm done for tonight, I'm going cross-eyed reading these little bitty scanned schematics!

73,
Kerry

-- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> IS your problem no audio tone at all or just doesn't have audio tone when keying? You will only have the side tone for CW when in the CW position. When this position is on AND the VOX is turned on with thedelay set it should do the semi-breakin for you. As for the side band positions, the mic will work over there only when it's in the LSB or USB modes. Vox will work or T/R switch is flipped. don't forget to set the delay too.
>
> Welcome to the group. We all started out that way. Well most of us. So don't feel any different, as we understand. you'll get responses here. It's a large group and active and they do watch and help out. Sometimes there's a question goes round and no answer comes easy but we all try. It's a good team. Good topics go around here too. Check out the archives while your at it. Good resource and good tools go a long ways. Watch the mail as it goes and you'll be amazed at what

you'll learn here in no time.
>
> kerrygeek1 <kmiller01@...> wrote:
> I just joined the group this evening and am already asking
for help!
> ;-) A friend, fairly new ham, just got an 380S last weekend at a
> hamfest and asked me to hook it up and check it out for him. I've
> always been a big fan of these rigs, an old friend had an 820 back
> when I still had an HW-101 and I used to love to go to his place and
> operate it.
>
> Here's the problem. This 830S has plenty of power, tunes up fine but
> has no mic audio and no CW sidetone. Since there's no sidetone, you
> can't key the rig with CW to work semi break-in. If you flip the t/r
> switch, you get full output on CW but no sidetone. I know the mic is
> good, I tested it on my other rig and also tried a known-good mic on
> this 830.
>
> Since it uses the sidetone to key the vox, I assume the 2 problems are
> related (no sidetone, no mic audio). Any ideas where to look? I
> don't really have any test
> equipment anymore other than a good DVM, I got rid of my scope the
> last time we moved (bad mistake...) If you guys have any ideas, maybe
> I can whip up a little audio amp or something to try to trace out an
> audio signal.
>
> This rig also has a little switch on the back, apparently a CB mod, on
> the 29MHz band position it's actually on 27MHz. If he keeps it we'll
> do away with that little mod...
>
> Other than the lack of any tx audio, the rig works fine on rx and
> sounds great, just like I remembered.
>
> Any ideas?
>
> Tnx,
> Kerry, WD5ABC
> Victoria, TX
>
>
>
>
>
>
>
> ---
> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

10875. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 17:32:51 UTC
From: Rick KC0HH
Topic: 10852 Message: 10875

Hi Kerry,

Did you read Gordon's response to your original question? Message #10853 concerning resistors on your rectifier board?
For a really nice TS-830S schematic with test voltages, Ken K4EAA has a schematic on his web site www.k4eaa.com ... The resolution is good enough it will print up to 36". I loaded it on a CD and had a friend of mine run a couple off his 42" HP Plotter on 36" paper and sent one to Gordon - N6WK. If you can find someone with a large format printer/plotter it makes it really nice to read without using a magnifying glass.

Rick KC0HH
Lamar, Colorado

kerrygeek1 <kmiller01@...> wrote: No, there are 2 different problems that I believe are probably
related. I know this rig uses the sidetone to key the vox on cw, but
there's no sidetone. On USB or LSB, there's no mic audio.

I don't have a scope so tonight I poked around with an old set of
headphones to see if I could find some mic audio. They were a cheap
set of Walkman-style headphones so I guess they're low-Z. I grounded
one side of the phones and probed around with the other side. When I
touched the audio lead on the compression level pot, it started
getting audio out. I clipped a 470 ohm resistor from the same point
to ground, it also had audio then. Still no sidetone but that got mic
audio to work.

Also, while I'm clipped to that connector on the compression level
pot, if I turn the processor on the audio goes away again. While I'm
clipped on, I can hear myself in the monitor just fine as long as I
don't unclip the headset or resistor or turn on the processor.

Does that help give anybody any ideas? I don't just want mic audio, I
want to fix it right so we'll have sidetone too. I'm trying to make
him into a CW op!

Thanks for all the help guys, I'm still tinkering...but I'm done for
tonight, I'm going cross-eyed reading these little bitty scanned
schematics!

73,
Kerry

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

10876. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 17:48:49 UTC
From: kerrygeek1
Topic: 10852 Message: 10876

I'll check that out, a bigger print would help, I'm no spring chicken.
Well, I guess 45 ain't bad, but I can't focus up close like I used to.

Yes, I tried what Gordon said, I pulled a leg up on both of those resistors, they looked fine but I checked and they were both fine. I didn't see anything else on that rectifier board that looked burned/open/etc. so I was poking around trying to find some mic audio when I discovered the thing about the processor control.

Working on this other guy's rig has motivated me though, I think next I'll see if I can get my old Drake Twins back on the air! I've also got a drift problem on my FT-990 now and then, maybe I'll track that down later too. I've been off the air for about 5 or 6 yrs so I need to get my station back up to speed after I get his 830 running right.

I don't have access to a plotter, but I have graphics programs so I could edit out the part of the schematic I need and print it big enough, thanks for the info. If I need it, maybe I'll take it to Office Depot or someplace with a big printer.

You guys are a big help, I'm not giving up on this 830 yet!

Thanks,
Kerry
WD5ABC

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> Hi Kerry,
>
> Did you read Gordon's response to your original question? Message #10853 concerning resistors on your rectifier board?
> For a really nice TS-830S schematic with test voltages, Ken K4EAA has a schematic on his web site www.k4eaa.com ... The resolution is good enough it will print up to 36". I loaded it on a CD and had a friend of mine run a couple off his 42" HP Plotter on 36" paper and sent one to Gordon - N6WK. If you can find someone with a large format printer/plotter it makes it really nice to read without using a magnifying glass.
>
> Rick KC0HH
> Lamar, Colorado
>
>
> kerrygeek1 <kmiller01@...> wrote:
No, there are 2 different problems that I believe are probably

> related. I know this rig uses the sidetone to key the vox on cw, but
> there's no sidetone. On USB or LSB, there's no mic audio.
>
> I don't have a scope so tonight I poked around with an old set of
> headphones to see if I could find some mic audio. They were a cheap
> set of Walkman-style headphones so I guess they're low-Z. I grounded
> one side of the phones and probed around with the other side. When I
> touched the audio lead on the compression level pot, it started
> getting audio out. I clipped a 470 ohm resistor from the same point
> to ground, it also had audio then. Still no sidetone but that got mic
> audio to work.
>
> Also, while I'm clipped to that connector on the compression level
> pot, if I turn the processor on the audio goes away again. While I'm
> clipped on, I can hear myself in the monitor just fine as long as I
> don't unclip the headset or resistor or turn on the processor.
>
> Does that help give anybody any ideas? I don't just want mic audio, I
> want to fix it right so we'll have sidetone too. I'm trying to make
> him into a CW op!
>
> Thanks for all the help guys, I'm still tinkering...but I'm done for
> tonight, I'm going cross-eyed reading these little bitty scanned
> schematics!
>
> 73,
> Kerry
>
>
>
>
>
>
>
>
> ---
> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

10877. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 19:18:45 UTC
From: Gordon
Topic: 10852 Message: 10877

Hi Kerry,
Can you tell me EXACTLY which lead on the compression level pot you
are touching to get audio ? Does it get audio if you touch ANY of the
3 leads with the Processor OFF ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1"
<kmiller01@...> wrote:
>
> No, there are 2 different problems that I believe are probably
> related. I know this rig uses the sidetone to key the vox on cw, but
> there's no sidetone. On USB or LSB, there's no mic audio.
>
> I don't have a scope so tonight I poked around with an old set of
> headphones to see if I could find some mic audio. They were a cheap
> set of Walkman-style headphones so I guess they're low-Z. I grounded
> one side of the phones and probed around with the other side. When I
> touched the audio lead on the compression level pot, it started
> getting audio out. I clipped a 470 ohm resistor from the same point
> to ground, it also had audio then. Still no sidetone but that got mic
> audio to work.
>
> Also, while I'm clipped to that connector on the compression level
> pot, if I turn the processor on the audio goes away again. While I'm
> clipped on, I can hear myself in the monitor just fine as long as I
> don't unclip the headset or resistor or turn on the processor.
>
> Does that help give anybody any ideas? I don't just want mic audio, I
> want to fix it right so we'll have sidetone too. I'm trying to make
> him into a CW op!
>
> Thanks for all the help guys, I'm still tinkering...but I'm done for
> tonight, I'm going cross-eyed reading these little bitty scanned
> schematics!
>
> 73,
> Kerry
>
> -- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > IS your problem no audio tone at all or just doesn't have audio tone
> when keying? You will only have the side tone for CW when in the CW
> position. When this position is on AND the VOX is turned on with
> thedelay set it should do the semi-breakin for you. As for the side

> band positions, the mic will work over there only when it's in the LSB
> or USB modes. Vox will work or T/R switch is flipped. don't forget to
> set the delay too.
> >
> > Welcome to the group. We all started out that way. Well most of
> us. So don't feel any different, as we understand. you'll get
> responses here. It's a large group and active and they do watch and
> help out. Sometimes there's a question goes round and no answer comes
> easy but we all try. It's a good team. Good topics go around here too.
> Check out the archives while your at it. Good resource and good tools
> go a long ways. Watch the mail as it goes and you'll be amazed at what
> you'll learn here in no time.
> >
> > kerrygeek1 <kmiller01@> wrote:
> > I just joined the group this evening and am already asking
> for help!
> > ;-) A friend, fairly new ham, just got an 380S last weekend at a
> > hamfest and asked me to hook it up and check it out for him. I've
> > always been a big fan of these rigs, an old friend had an 820 back
> > when I still had an HW-101 and I used to love to go to his place and
> > operate it.
> >
> > Here's the problem. This 830S has plenty of power, tunes up fine but
> > has no mic audio and no CW sidetone. Since there's no sidetone, you
> > can't key the rig with CW to work semi break-in. If you flip the t/r
> > switch, you get full output on CW but no sidetone. I know the mic is
> > good, I tested it on my other rig and also tried a known-good mic on
> > this 830.
> >
> > Since it uses the sidetone to key the vox, I assume the 2 problems are
> > related (no sidetone, no mic audio). Any ideas where to look? I
> > don't really have any test
> > equipment anymore other than a good DVM, I got rid of my scope the
> > last time we moved (bad mistake...) If you guys have any ideas, maybe
> > I can whip up a little audio amp or something to try to trace out an
> > audio signal.
> >
> > This rig also has a little switch on the back, apparently a CB mod, on
> > the 29MHz band position it's actually on 27MHz. If he keeps it we'll
> > do away with that little mod...
> >
> > Other than the lack of any tx audio, the rig works fine on rx and
> > sounds great, just like I remembered.
> >
> > Any ideas?
> >
> > Tnx,
> > Kerry, WD5ABC
> > Victoria, TX
> >

> >
> >
> >
> >
> >
> > ---------------------------------
> > Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>

10878. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 19:30:04 UTC
From: Gordon
Topic: 10852 Message: 10878

-Kerry,
Check and clean all the connectors on the IF Board. I am wondering
now if perhaps you have a bad/dirty connection especially at connector
7 on the IF Board. You also might want to flip the board over and be
sure you don't have some bad solder joints on the connector pins to
the board. Those getting loose is a common problem as Ruben found out !

Gordon

-- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1" <kmiller01@...>
wrote:
>
> I'll check that out, a bigger print would help, I'm no spring chicken.
> Well, I guess 45 ain't bad, but I can't focus up close like I used to.
>
> Yes, I tried what Gordon said, I pulled a leg up on both of those
> resistors, they looked fine but I checked and they were both fine. I
> didn't see anything else on that rectifier board that looked
> burned/open/etc. so I was poking around trying to find some mic audio
> when I discovered the thing about the processor control.
>
> Working on this other guy's rig has motivated me though, I think next
> I'll see if I can get my old Drake Twins back on the air! I've also
> got a drift problem on my FT-990 now and then, maybe I'll track that
> down later too. I've been off the air for about 5 or 6 yrs so I need
> to get my station back up to speed after I get his 830 running right.
>
> I don't have access to a plotter, but I have graphics programs so I
> could edit out the part of the schematic I need and print it big
> enough, thanks for the info. If I need it, maybe I'll take it to
> Office Depot or someplace with a big printer.
>
> You guys are a big help, I'm not giving up on this 830 yet!
>
> Thanks,
> Kerry
> WD5ABC
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@> wrote:
> >
> > Hi Kerry,
> >
> > Did you read Gordon's response to your original question? Message
> #10853 concerning resistors on your rectifier board?

> > For a really nice TS-830S schematic with test voltages, Ken K4EAA
> has a schematic on his web site www.k4eaa.com ... The resolution is
> good enough it will print up to 36". I loaded it on a CD and had a
> friend of mine run a couple off his 42" HP Plotter on 36" paper and
> sent one to Gordon - N6WK. If you can find someone with a large
> format printer/plotter it makes it really nice to read without using a
> magnifying glass.
> >
> > Rick KC0HH
> > Lamar, Colorado
> >
> >
> > kerrygeek1 <kmiller01@> wrote:
> No, there are 2 different problems that I believe are probably
> > related. I know this rig uses the sidetone to key the vox on cw, but
> > there's no sidetone. On USB or LSB, there's no mic audio.
> >
> > I don't have a scope so tonight I poked around with an old set of
> > headphones to see if I could find some mic audio. They were a cheap
> > set of Walkman-style headphones so I guess they're low-Z. I grounded
> > one side of the phones and probed around with the other side. When I
> > touched the audio lead on the compression level pot, it started
> > getting audio out. I clipped a 470 ohm resistor from the same point
> > to ground, it also had audio then. Still no sidetone but that
got mic
> > audio to work.
> >
> > Also, while I'm clipped to that connector on the compression level
> > pot, if I turn the processor on the audio goes away again. While I'm
> > clipped on, I can hear myself in the monitor just fine as long as I
> > don't unclip the headset or resistor or turn on the processor.
> >
> > Does that help give anybody any ideas? I don't just want mic
audio, I
> > want to fix it right so we'll have sidetone too. I'm trying to make
> > him into a CW op!
> >
> > Thanks for all the help guys, I'm still tinkering...but I'm done for
> > tonight, I'm going cross-eyed reading these little bitty scanned
> > schematics!
> >
> > 73,
> > Kerry
> >
> >
> >
> >
> >
> >
> >

> >
> > ---------------------------------
> > Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>

10879. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 19:54:29 UTC
From: Gordon
Topic: 10852 Message: 10879

Kerry,
after looking at the schematic some more, I would also like you to
check the Processor SWITCH. Is it switching properly? Also, does the
Black wire(s) on the processor control show Continuity to Ground ?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> -Kerry,
> Check and clean all the connectors on the IF Board. I am wondering
> now if perhaps you have a bad/dirty connection especially at connector
> 7 on the IF Board. You also might want to flip the board over and be
> sure you don't have some bad solder joints on the connector pins to
> the board. Those getting loose is a common problem as Ruben found out !
>
> Gordon
>

10880. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 20:14:44 UTC
From: Ruben Echevarria
Topic: 10852 Message: 10880

That would be connectors 4, 5, and 6 on the IF board. Pull the board and resolder the connector pins.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 11, 2006 2:54:29 PM
Subject: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Kerry,
after looking at the schematic some more, I would also like you to
check the Processor SWITCH. Is it switching properly? Also, does the
Black wire(s) on the processor control show Continuity to Ground ?

Gordon

--- In TS-520_820_530_ 830@yahoogroups. com, "Gordon" <n6wk@...> wrote:
>
> -Kerry,
> Check and clean all the connectors on the IF Board. I am wondering
> now if perhaps you have a bad/dirty connection especially at connector
> 7 on the IF Board. You also might want to flip the board over and be
> sure you don't have some bad solder joints on the connector pins to
> the board. Those getting loose is a common problem as Ruben found out !
>
> Gordon
>

[Non-text portions of this message have been removed]

10881. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 21:16:15 UTC
From: kerrygeek1
Topic: 10852 Message: 10881

Gordon,

The lead I was touching was the one closest to the left side of the rig (looking from the front. It has a black wire that goes up front panel just above the proc switch, I can't tell where it goes from there. It goes into a little "bundle" with a white wire which goes from the middle lead of the compression pot up to the top lead of the proc switch. The wire I touched to make it work was the black on on the lead closest to the side of the rig

Does that make sense?

Tnx,
Kerry - back to digging in the radio...

-- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Hi Kerry,
> Can you tell me EXACTLY which lead on the compression level pot you
> are touching to get audio ? Does it get audio if you touch ANY of the
> 3 leads with the Processor OFF ?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1"
> <kmiller01@> wrote:
> >
> > No, there are 2 different problems that I believe are probably
> > related. I know this rig uses the sidetone to key the vox on cw, but
> > there's no sidetone. On USB or LSB, there's no mic audio.
> >
> > I don't have a scope so tonight I poked around with an old set of
> > headphones to see if I could find some mic audio. They were a cheap
> > set of Walkman-style headphones so I guess they're low-Z. I grounded
> > one side of the phones and probed around with the other side. When I
> > touched the audio lead on the compression level pot, it started
> > getting audio out. I clipped a 470 ohm resistor from the same point
> > to ground, it also had audio then. Still no sidetone but that got mic
> > audio to work.
> >
> > Also, while I'm clipped to that connector on the compression level
> > pot, if I turn the processor on the audio goes away again. While I'm
> > clipped on, I can hear myself in the monitor just fine as long as I
> > don't unclip the headset or resistor or turn on the processor.
> >
> > Does that help give anybody any ideas? I don't just want mic audio, I

> > want to fix it right so we'll have sidetone too. I'm trying to make
> > him into a CW op!
> >
> > Thanks for all the help guys, I'm still tinkering...but I'm done for
> > tonight, I'm going cross-eyed reading these little bitty scanned
> > schematics!
> >
> > 73,
> > Kerry
> >
> > -- In TS-520_820_530_830@...m, John Harp <ka3dpw@> wrote:
> > >
> > > IS your problem no audio tone at all or just doesn't have audio tone
> > when keying? You will only have the side tone for CW when in the CW
> > position. When this position is on AND the VOX is turned on with
> > thedelay set it should do the semi-breakin for you. As for the side
> > band positions, the mic will work over there only when it's in the LSB
> > or USB modes. Vox will work or T/R switch is flipped. don't forget to
> > set the delay too.
> > >
> > > Welcome to the group. We all started out that way. Well most of
> > us. So don't feel any different, as we understand. you'll get
> > responses here. It's a large group and active and they do watch and
> > help out. Sometimes there's a question goes round and no answer comes
> > easy but we all try. It's a good team. Good topics go around here too.
> > Check out the archives while your at it. Good resource and good tools
> > go a long ways. Watch the mail as it goes and you'll be amazed at what
> > you'll learn here in no time.
> > >
> > > kerrygeek1 <kmiller01@> wrote:
> > > I just joined the group this evening and am already asking
> > for help!
> > > ;-) A friend, fairly new ham, just got an 380S last weekend at a
> > > hamfest and asked me to hook it up and check it out for him. I've
> > > always been a big fan of these rigs, an old friend had an 820 back
> > > when I still had an HW-101 and I used to love to go to his place and
> > > operate it.
> > >
> > > Here's the problem. This 830S has plenty of power, tunes up fine but
> > > has no mic audio and no CW sidetone. Since there's no sidetone, you
> > > can't key the rig with CW to work semi break-in. If you flip the t/r
> > > switch, you get full output on CW but no sidetone. I know the mic is
> > > good, I tested it on my other rig and also tried a known-good mic on
> > > this 830.
> > >
> > > Since it uses the sidetone to key the vox, I assume the 2
problems are
> > > related (no sidetone, no mic audio). Any ideas where to look? I
> > > don't really have any test
> > > equipment anymore other than a good DVM, I got rid of my scope the

> > > last time we moved (bad mistake...) If you guys have any ideas,
maybe
> > > I can whip up a little audio amp or something to try to trace out an
> > > audio signal.
> > >
> > > This rig also has a little switch on the back, apparently a CB
mod, on
> > > the 29MHz band position it's actually on 27MHz. If he keeps it we'll
> > > do away with that little mod...
> > >
> > > Other than the lack of any tx audio, the rig works fine on rx and
> > > sounds great, just like I remembered.
> > >
> > > Any ideas?
> > >
> > > Tnx,
> > > Kerry, WD5ABC
> > > Victoria, TX
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

10882. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 21:22:13 UTC
From: Another Old Codger
Topic: 10852 Message: 10882

A tip I was given by an ex-Kenwood engineer was to check all the screws holding the various boards, especially those that ground the tracks. I tried it when I bought my TS-530, second-hand, and most of them were loose to some extent.

Another point, the Instruction Manual regarding the RF line-up are very much simpler than the Technical Manual, and just as effective!

73 Ron G8URU

----- Original Message -----
From: "kerrygeek1" <kmiller01@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, November 11, 2006 5:48 PM
Subject: [TS-520_820_530_830] Re: Problem - no audio on an 830S

I'll check that out, a bigger print would help, I'm no spring chicken. Well, I guess 45 ain't bad, but I can't focus up close like I used to.

Yes, I tried what Gordon said, I pulled a leg up on both of those resistors, they looked fine but I checked and they were both fine. I didn't see anything else on that rectifier board that looked burned/open/etc. so I was poking around trying to find some mic audio when I discovered the thing about the processor control.

Working on this other guy's rig has motivated me though, I think next I'll see if I can get my old Drake Twins back on the air! I've also got a drift problem on my FT-990 now and then, maybe I'll track that down later too. I've been off the air for about 5 or 6 yrs so I need to get my station back up to speed after I get his 830 running right.

I don't have access to a plotter, but I have graphics programs so I could edit out the part of the schematic I need and print it big enough, thanks for the info. If I need it, maybe I'll take it to Office Depot or someplace with a big printer.

You guys are a big help, I'm not giving up on this 830 yet!

Thanks,
Kerry
WD5ABC

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...>
wrote:
>
> Hi Kerry,

>
> Did you read Gordon's response to your original question? Message
#10853 concerning resistors on your rectifier board?
> For a really nice TS-830S schematic with test voltages, Ken K4EAA
has a schematic on his web site www.k4eaa.com ... The resolution is
good enough it will print up to 36". I loaded it on a CD and had a
friend of mine run a couple off his 42" HP Plotter on 36" paper and
sent one to Gordon - N6WK. If you can find someone with a large
format printer/plotter it makes it really nice to read without using a
magnifying glass.
>
> Rick KC0HH
> Lamar, Colorado
>
>
> kerrygeek1 <kmiller01@...> wrote:
No, there are 2 different problems that I believe are probably
> related. I know this rig uses the sidetone to key the vox on cw,
> but
> there's no sidetone. On USB or LSB, there's no mic audio.
>
> I don't have a scope so tonight I poked around with an old set of
> headphones to see if I could find some mic audio. They were a
> cheap
> set of Walkman-style headphones so I guess they're low-Z. I
> grounded
> one side of the phones and probed around with the other side. When
> I
> touched the audio lead on the compression level pot, it started
> getting audio out. I clipped a 470 ohm resistor from the same
> point
> to ground, it also had audio then. Still no sidetone but that got
> mic
> audio to work.
>
> Also, while I'm clipped to that connector on the compression level
> pot, if I turn the processor on the audio goes away again. While
> I'm
> clipped on, I can hear myself in the monitor just fine as long as I
> don't unclip the headset or resistor or turn on the processor.
>
> Does that help give anybody any ideas? I don't just want mic
> audio, I
> want to fix it right so we'll have sidetone too. I'm trying to
> make
> him into a CW op!
>
> Thanks for all the help guys, I'm still tinkering...but I'm done
> for
> tonight, I'm going cross-eyed reading these little bitty scanned

> schematics!
>
> 73,
> Kerry
>
>
>
>
>
>
>
>
> ---------------------------------
> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

10883. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 21:45:17 UTC
From: kerrygeek1
Topic: 10852 Message: 10883

Gordon,

I'm looking at the rig now, the proc switch is working properly as measured with my digital meter. The black wire on the proc control (on the far left lead, the other 2 leads are white) shows 13.3k ohms to ground. That wire appears to go over the proc switch to the front panel somewhere.

Got to run an errand, I'll come back and pull the IF board next.

Thanks for all the hints, I'll try them in a bit and report back!

Kerry

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Kerry,
> after looking at the schematic some more, I would also like you to
> check the Processor SWITCH. Is it switching properly? Also, does the
> Black wire(s) on the processor control show Continuity to Ground ?
>
> Gordon
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > -Kerry,
> > Check and clean all the connectors on the IF Board. I am wondering
> > now if perhaps you have a bad/dirty connection especially at connector
> > 7 on the IF Board. You also might want to flip the board over and be
> > sure you don't have some bad solder joints on the connector pins to
> > the board. Those getting loose is a common problem as Ruben found
out !
> >
> > Gordon
> >
>

10884. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 22:14:55 UTC
From: N6WK
Topic: 10852 Message: 10884

Kerry,
Tell me, does the black wire show as a ground to the chasis ? It
should. It is the Ground side of the Pot. The fact that you connect a
470 ohm resistor to it to make the rig work tells me it has lost its
connection to ground which it gets from pins 2,3 and 6 of connector 7 on
the IF board.

Gordon

kerrygeek1 wrote:

> Gordon,
>
> I'm looking at the rig now, the proc switch is working properly as
> measured with my digital meter. The black wire on the proc control
> (on the far left lead, the other 2 leads are white) shows 13.3k ohms
> to ground. That wire appears to go over the proc switch to the front
> panel somewhere.
>
> Got to run an errand, I'll come back and pull the IF board next.
>
> Thanks for all the hints, I'll try them in a bit and report back!
>
> Kerry
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > Kerry,
> > after looking at the schematic some more, I would also like you to
> > check the Processor SWITCH. Is it switching properly? Also, does the
> > Black wire(s) on the processor control show Continuity to Ground ?
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > -Kerry,
> > > Check and clean all the connectors on the IF Board. I am wondering
> > > now if perhaps you have a bad/dirty connection especially at connector
> > > 7 on the IF Board. You also might want to flip the board over and be
> > > sure you don't have some bad solder joints on the connector pins to
> > > the board. Those getting loose is a common problem as Ruben found
> out !
> > >

> > > Gordon
> > >
> >
>
>

[Non-text portions of this message have been removed]

10885. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 22:19:53 UTC
From: ve3tmt
Topic: 10852 Message: 10885

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1"
<kmiller01@...> wrote:

I'll come back and pull the IF board next.

Kerry,

When you pull the board check every connection where wires plug in.
You may find a few have broken loose from the solder. You should use
tis time to resolder every pin of evey connector back to the boack. It
may be part of the problem, if not it will certainly prevent them in
the future.

Max VE3TMT

10886. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 22:22:36 UTC
From: N6WK
Topic: 10852 Message: 10886

Kerry,
I just reread your post. If the Black wire is showing 13.3 K to ground,
You have found your problem. You just need to find out why it is no
longer grounded. I just checked the 830 I have open here on the bennch.
That black wire grounds through pins 3 and 6 on connector # 7. Loosen
and retighten ALL the screws that hold the IF board down to start with.

Gordon

kerrygeek1 wrote:

> Gordon,
>
> I'm looking at the rig now, the proc switch is working properly as
> measured with my digital meter. The black wire on the proc control
> (on the far left lead, the other 2 leads are white) shows 13.3k ohms
> to ground. That wire appears to go over the proc switch to the front
> panel somewhere.
>
> Got to run an errand, I'll come back and pull the IF board next.
>
> Thanks for all the hints, I'll try them in a bit and report back!
>
> Kerry
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@...> wrote:
> >
> > Kerry,
> > after looking at the schematic some more, I would also like you to
> > check the Processor SWITCH. Is it switching properly? Also, does the
> > Black wire(s) on the processor control show Continuity to Ground ?
> >
> > Gordon
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > -Kerry,
> > > Check and clean all the connectors on the IF Board. I am wondering
> > > now if perhaps you have a bad/dirty connection especially at connector
> > > 7 on the IF Board. You also might want to flip the board over and be
> > > sure you don't have some bad solder joints on the connector pins to
> > > the board. Those getting loose is a common problem as Ruben found
> out !
> > >

> > > Gordon
> > >
> >
>
>

[Non-text portions of this message have been removed]

10887. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 22:43:34 UTC
From: Gordon
Topic: 10852 Message: 10887

Ron,
That is SOLID advice !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
<clattering.ford@...> wrote:
>
> A tip I was given by an ex-Kenwood engineer was to check all the
> screws holding the various boards, especially those that ground the
> tracks. I tried it when I bought my TS-530, second-hand, and most of
> them were loose to some extent.
>
> Another point, the Instruction Manual regarding the RF line-up are
> very much simpler than the Technical Manual, and just as effective!
>
> 73 Ron G8URU
>
> ----- Original Message -----
> From: "kerrygeek1" <kmiller01@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Saturday, November 11, 2006 5:48 PM
> Subject: [TS-520_820_530_830] Re: Problem - no audio on an 830S
>
>
> I'll check that out, a bigger print would help, I'm no spring chicken.
> Well, I guess 45 ain't bad, but I can't focus up close like I used
> to.
>
> Yes, I tried what Gordon said, I pulled a leg up on both of those
> resistors, they looked fine but I checked and they were both fine. I
> didn't see anything else on that rectifier board that looked
> burned/open/etc. so I was poking around trying to find some mic audio
> when I discovered the thing about the processor control.
>
> Working on this other guy's rig has motivated me though, I think next
> I'll see if I can get my old Drake Twins back on the air! I've also
> got a drift problem on my FT-990 now and then, maybe I'll track that
> down later too. I've been off the air for about 5 or 6 yrs so I need
> to get my station back up to speed after I get his 830 running right.
>
> I don't have access to a plotter, but I have graphics programs so I
> could edit out the part of the schematic I need and print it big
> enough, thanks for the info. If I need it, maybe I'll take it to
> Office Depot or someplace with a big printer.

>
> You guys are a big help, I'm not giving up on this 830 yet!
>
> Thanks,
> Kerry
> WD5ABC
>
>
> --- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@>
> wrote:
> >
> > Hi Kerry,
> >
> > Did you read Gordon's response to your original question? Message
> #10853 concerning resistors on your rectifier board?
> > For a really nice TS-830S schematic with test voltages, Ken K4EAA
> has a schematic on his web site www.k4eaa.com ... The resolution is
> good enough it will print up to 36". I loaded it on a CD and had a
> friend of mine run a couple off his 42" HP Plotter on 36" paper and
> sent one to Gordon - N6WK. If you can find someone with a large
> format printer/plotter it makes it really nice to read without using a
> magnifying glass.
> >
> > Rick KC0HH
> > Lamar, Colorado
> >
> >
> > kerrygeek1 <kmiller01@> wrote:
> No, there are 2 different problems that I believe are probably
> > related. I know this rig uses the sidetone to key the vox on cw,
> > but
> > there's no sidetone. On USB or LSB, there's no mic audio.
> >
> > I don't have a scope so tonight I poked around with an old set of
> > headphones to see if I could find some mic audio. They were a
> > cheap
> > set of Walkman-style headphones so I guess they're low-Z. I
> > grounded
> > one side of the phones and probed around with the other side. When
> > I
> > touched the audio lead on the compression level pot, it started
> > getting audio out. I clipped a 470 ohm resistor from the same
> > point
> > to ground, it also had audio then. Still no sidetone but that got
> > mic
> > audio to work.
> >
> > Also, while I'm clipped to that connector on the compression level
> > pot, if I turn the processor on the audio goes away again. While
> > I'm

> > clipped on, I can hear myself in the monitor just fine as long as I
> > don't unclip the headset or resistor or turn on the processor.
> >
> > Does that help give anybody any ideas? I don't just want mic
> > audio, I
> > want to fix it right so we'll have sidetone too. I'm trying to
> > make
> > him into a CW op!
> >
> > Thanks for all the help guys, I'm still tinkering...but I'm done
> > for
> > tonight, I'm going cross-eyed reading these little bitty scanned
> > schematics!
> >
> > 73,
> > Kerry
> >
> >
> >
> >
> >
> >
> >
> >
> > ---
> > Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
> >
> > [Non-text portions of this message have been removed]
> >
>

10888. 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-11 23:02:16 UTC
From: Bill Richarz
Topic: 10888 Message: 10888

Did Kenwood make a 6 meter transverter for the
TS-820S.
It mentions a 2-meterTV in my owner's manual but
nothing for 6 meter. If so, how much power does it
put out?

tnx & 73 de Bill, N4DH

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

10889. Re: 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 00:07:05 UTC
From: digs4ruff
Topic: 10888 Message: 10889

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...>
wrote:
>
> Did Kenwood make a 6 meter transverter for the
> TS-820S.
> It mentions a 2-meterTV in my owner's manual but
> nothing for 6 meter. If so, how much power does it
> put out?
>
> tnx & 73 de Bill, N4DH
>
Bill
Output is 8W
Page 10
http://bama.edebris.com/download/kenwood/tv506/tv-506.pdf
regards
Barry

10890. Re: 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 00:03:03 UTC
From: digs4ruff
Topic: 10888 Message: 10890

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...>
wrote:
>
> Did Kenwood make a 6 meter transverter for the
> TS-820S.
> It mentions a 2-meterTV in my owner's manual but
> nothing for 6 meter. If so, how much power does it
> put out?
>
> tnx & 73 de Bill, N4DH
>
Bill
TV-506
http://universal-radio.com/catalog/hamhf/ts820s.html
regards
Barry

10891. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 00:43:54 UTC
From: Another Old Codger
Topic: 10852 Message: 10891

Gordon, thank you kind sir ;-)

Having lived with technical manuals almost all of my life, I find them both puzzling and amusing. I some times wonder if the people who write them have ever seen the equipment. The TS-530 is a classical example, the instruction manual tells you how to do the essential things with out equipment, a quick tweak improved the receiver considerably on several bands. When I got the Tech Manual I realised that to follow the line-up instructions as per Tech Manual, I needed some expensive gear. As it happens I do have some elderly but serviceable test gear, mainly begged, or rescued from a skip. So with the Marconi TF-144 I can do very accurate RF/IF measurements. The S Meter will only be accurate on certain bands, so I set it to be accurate on 80 as that is my most used.

Test equipment can be very interesting to acquire a rallies, (Hamfests), if it isn't well known dealers tend to sell it cheap. It's great fun to get a piece of gear for a few pounds, (GBP), because the dealer hasn't any idea of what it is!

It makes up for the times that you have been robbed by a dishonest dealer.

73 Ron G8URU

----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, November 11, 2006 10:43 PM
Subject: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Ron,
That is SOLID advice !

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger" <clattering.ford@...> wrote:
>
> A tip I was given by an ex-Kenwood engineer was to check all the
> screws holding the various boards, especially those that ground the
> tracks. I tried it when I bought my TS-530, second-hand, and most of
> them were loose to some extent.
>
> Another point, the Instruction Manual regarding the RF line-up are
> very much simpler than the Technical Manual, and just as effective!
>

> 73 Ron G8URU

10892. Re: [TS-520_820_530_830] 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 01:00:21 UTC
From: Another Old Codger
Topic: 10888 Message: 10892

Hi, Bill,

I don't think they did, but, you could use any commercial Transverter that uses a low level 28 MHz input. The signal is taken from the 28 MHz Driver output from an additional winding on the coil, via a 10 pf and a 68R to gnd. It's preferable to use the SG switch to save the PA.

Incidentally, the TS-530 has this additional winding, and the pads on the PCB, all it needs is a 10pf, 68R, and a short bit of coax to a BNC. Why they didn't fit it beats me???

Spectrum make suitable Transverters, in kit form, and made up.

73, Ron G8URU

----- Original Message -----
From: "Bill Richarz" <billn4dh@...>
To: <ts-520_820_530_830@yahoogroups.com>
Sent: Saturday, November 11, 2006 11:02 PM
Subject: [TS-520_820_530_830] 6 Meter Transverter

Did Kenwood make a 6 meter transverter for the
TS-820S.
It mentions a 2-meterTV in my owner's manual but
nothing for 6 meter. If so, how much power does it
put out?

tnx & 73 de Bill, N4DH

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

10893. Re: [TS-520_820_530_830] Re: 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 01:07:55 UTC
From: Another Old Codger
Topic: 10888 Message: 10893

I've never seen one of these in GB, perhaps they are as rare as the proverbial hens teeth.

This is a very useful Group!!

73, Ron G8URU
----- Original Message -----
From: "digs4ruff" <digs4ruff@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, November 12, 2006 12:07 AM
Subject: [TS-520_820_530_830] Re: 6 Meter Transverter

--- In TS-520_820_530_830@yahoogroups.com, Bill Richarz <billn4dh@...>
wrote:
>
> Did Kenwood make a 6 meter transverter for the
> TS-820S.
> It mentions a 2-meterTV in my owner's manual but
> nothing for 6 meter. If so, how much power does it
> put out?
>
> tnx & 73 de Bill, N4DH
>
Bill
Output is 8W
Page 10
http://bama.edebris.com/download/kenwood/tv506/tv-506.pdf
regards
Barry

10894. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 02:25:47 UTC
From: kerrygeek1
Topic: 10852 Message: 10894

Ok, guys, here's what I just sent to Gordon but I wanted to keep everybody in the loop. Since I've used up about 95% of the bandwidth on this group the last couple of days, why stop now? ;-)

Maybe some of this will make sense to you guys.

Kerry

Gordon,

Yep, I started digging into the AF board last nite, it seems to me the problem has to be between where the sidetone and mic come in and the vox amp. I'm looking there now, I haven't taken any readings on those resistors yet but here's what I'm getting at some test points:

tp1: 0v
tp3: 12v
tp6: 9v
tp5: 5v
tp4: 10.2v

I don't remember which lead is which on Q1 so I'll just tell you what I'm looking at. With the flat side of the transistor facing away from me, looking down from the top, I'll call the pins 1, 2, and 3 starting from the left. I guess that's backwards, but maybe you can figure it out! Here's what I've got:
1: 12v
2: 0v
3: 12v
This transistor is sticking up from the board and doesn't look like an original part or at least not a factory installation job. Several parts on this board have solder blobs on the top of them like somebody tacked a wire to them at one time. Those parts that look fishy are:
D17
R75
R80
J18
R68
R47
R67
J21
R74

I've located some of those resistors you named off, I'll start taking some measurements on those. R1 is not original, it's too big, like a 1 watt. There is a wire wrap thing next to R1 labeled STB, it has a wht/org wire (maybe wht/red, I'm colorblind!) wrapped on it. It has

107v on it. R1 has 1.5v, R3 looks like .8v. R5 is 0v. R4 looks like either 0v or .01v. R2 looks like it connects to almost the same place as R1 and has 1.5v also.

There are several wires on this board with black tape on it, looks like somebody cut these wires and put them back together. One is white/red on a terminal between C81 and Q30. There's a yellow wire on that same terminal with tape on it. Another wire on that same post, I think it's wht/yellow, has tape on it.

On connector 6, there is a blue wire clipped, it's the 2nd wire back from the front of the rig, the first one is yellow.

It looks like somebody has been all over this AF board, I'm willing to bet that's where the trouble is. Does any of that sound helpful to you?

I'll post this over to the group so everybody else can see what we're up to!

Thanks, I appreciate all your help!

Kerry

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Kerry,
> I just reread your post. If the Black wire is showing 13.3 K to ground,
> You have found your problem. You just need to find out why it is no
> longer grounded. I just checked the 830 I have open here on the bennch.
> That black wire grounds through pins 3 and 6 on connector # 7. Loosen
> and retighten ALL the screws that hold the IF board down to start with.
>
> Gordon
>
> kerrygeek1 wrote:
>
> > Gordon,
> >
> > I'm looking at the rig now, the proc switch is working properly as
> > measured with my digital meter. The black wire on the proc control
> > (on the far left lead, the other 2 leads are white) shows 13.3k ohms
> > to ground. That wire appears to go over the proc switch to the front
> > panel somewhere.
> >
> > Got to run an errand, I'll come back and pull the IF board next.
> >
> > Thanks for all the hints, I'll try them in a bit and report back!
> >
> > Kerry
> >

> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > >
> > > Kerry,
> > > after looking at the schematic some more, I would also like you to
> > > check the Processor SWITCH. Is it switching properly? Also, does the
> > > Black wire(s) on the processor control show Continuity to Ground ?
> > >
> > > Gordon
> > >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Gordon" <n6wk@> wrote:
> > > >
> > > > -Kerry,
> > > > Check and clean all the connectors on the IF Board. I am wondering
> > > > now if perhaps you have a bad/dirty connection especially at
connector
> > > > 7 on the IF Board. You also might want to flip the board over
and be
> > > > sure you don't have some bad solder joints on the connector
pins to
> > > > the board. Those getting loose is a common problem as Ruben found
> > out !
> > > >
> > > > Gordon
> > > >
> > >
> > >
> >
> >
> >
> [Non-text portions of this message have been removed]
>

10895. Re: [TS-520_820_530_830] 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 03:28:47 UTC
From: John Harp
Topic: 10888 Message: 10895

Kenwood made the TV 502 for 2 meters and the TV-506 for 6 meters. They were originally built to attach to the TS-520. They can easily enough mouint to the 820 also.

I'm adapting one of the TV-502 units to TS-830S. I'm looking for also get a TV-506 and use that with the 830 as well. I've heard of these being attached to other Kenwood models also.

james is another person in the group who has Kenwood transverters. He uses the 520 for his and he also has a 530.

The power out is about 8 watts.

Are you interested in VHF? If so you may want to look at the TV-502's on ebay right now. I got two of them without cables and manual. I paid 80 and 50. But I can get them going too. If you don't know much of these units you may want to conder the higher cost of a complete unit.
Bill Richarz <billn4dh@...> wrote:
Did Kenwood make a 6 meter transverter for the
TS-820S.
It mentions a 2-meterTV in my owner's manual but
nothing for 6 meter. If so, how much power does it
put out?

tnx & 73 de Bill, N4DH

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

10896. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 05:36:39 UTC
From: kerrygeek1
Topic: 10852 Message: 10896

Good new/bad news. I found the problem with the audio, I think. I pulled out the IF board and the trace between connector 7 and ground was pulled up. I jumpered it and put the board back in.

The bad news is that now I don't have any RX and the VFO doesn't light up. I figured I must have pulled a wire loose somewhere but I haven't found it. It acts like the bandswitch is between positions. The bandswitch is a little flaky anyway but I don't think I did anything to it.

Any ideas about what I fouled up this time?

Kerry - working on a snakebit radio!

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1" <kmiller01@...> wrote:
>
> Ok, guys, here's what I just sent to Gordon but I wanted to keep
> everybody in the loop. Since I've used up about 95% of the bandwidth
> on this group the last couple of days, why stop now? ;-)
>
> Maybe some of this will make sense to you guys.
>
> Kerry
>
> Gordon,
>
> Yep, I started digging into the AF board last nite, it seems to me the
> problem has to be between where the sidetone and mic come in and the
> vox amp. I'm looking there now, I haven't taken any readings on those
> resistors yet but here's what I'm getting at some test points:
>
> tp1: 0v
> tp3: 12v
> tp6: 9v
> tp5: 5v
> tp4: 10.2v
>
> I don't remember which lead is which on Q1 so I'll just tell you what
> I'm looking at. With the flat side of the transistor facing away from
> me, looking down from the top, I'll call the pins 1, 2, and 3 starting
> from the left. I guess that's backwards, but maybe you can figure it
> out! Here's what I've got:
> 1: 12v
> 2: 0v
> 3: 12v

> This transistor is sticking up from the board and doesn't look like
> an original part or at least not a factory installation job. Several
> parts on this board have solder blobs on the top of them like somebody
> tacked a wire to them at one time. Those parts that look fishy are:
> D17
> R75
> R80
> J18
> R68
> R47
> R67
> J21
> R74
>
> I've located some of those resistors you named off, I'll start taking
> some measurements on those. R1 is not original, it's too big, like a
> 1 watt. There is a wire wrap thing next to R1 labeled STB, it has a
> wht/org wire (maybe wht/red, I'm colorblind!) wrapped on it. It has
> 107v on it. R1 has 1.5v, R3 looks like .8v. R5 is 0v. R4 looks like
> either 0v or .01v. R2 looks like it connects to almost the same place
> as R1 and has 1.5v also.
>
> There are several wires on this board with black tape on it, looks
> like somebody cut these wires and put them back together. One is
> white/red on a terminal between C81 and Q30. There's a yellow wire on
> that same terminal with tape on it. Another wire on that same post, I
> think it's wht/yellow, has tape on it.
>
> On connector 6, there is a blue wire clipped, it's the 2nd wire back
> from the front of the rig, the first one is yellow.
>
> It looks like somebody has been all over this AF board, I'm willing to
> bet that's where the trouble is. Does any of that sound helpful to you?
>
> I'll post this over to the group so everybody else can see what we're
> up to!
>
> Thanks, I appreciate all your help!
>
> Kerry
>

10897. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 14:47:55 UTC
From: ve3tmt
Topic: 10852 Message: 10897

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1" <kmiller01@...> wrote:

Any ideas about what I fouled up this time?

If the RX and the VFO were working before you pulled the board, obviously it is a connecton on the IF board at fault. Did you resolder every pin of every connector as suggested? The sold joints may look good but the pin will actually break connection with the solder and lose contact. On a few of mine they connector actually pulled out leaving nice soldered holes! Are you sure you put the wires back in the right spot?? I marked all my connectors with a Sharpie marker so there is no mistake where they go. I have had my IF board in and out about 10 times and never had this problem Kerry. Check all the connections, wiggle a few connectors and let us know what you find.

Max VE3TMT

10898. Any GB member of this list re-tube an 830 for me.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 15:41:38 UTC
From: Jon, M1CBH
Topic: 10852 Message: 10898

Hi all,

Is there any member of this group that a) Lives anywhere near Mansfield, Nottinghamshire, UK and b) is able to re-tube a TS-830S for me.

I can't/won't do it as I have a co-ordination disability and do not really want to poke around with HV stuff and/or damage my radio.

If I can't get any help I may end up selling on ebay.

Oh, BTW it's definitely the tubes/valves that have gone, you can lift the anode cap clean off from of of them.

Also, on a sort of side issue, is it possible/safe to power on a TS-830S that doesn't have it's 6146's inside it at the moment(possibly with the SG switch off?).

regards and 73s

Jon, M1CBH

10899. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 15:53:21 UTC
From: Rick KC0HH
Topic: 10852 Message: 10899

Kerry,

Also make sure you don't have connectors 6 & 8 reversed on the IF board. They are both 5 pins connectors and right next to each other.

73' Rick KC0HH

kerrygeek1 <kmiller01@...> wrote:
Good new/bad news. I found the problem with the audio, I think. I pulled out the IF board and the trace between connector 7 and ground was pulled up. I jumpered it and put the board back in.

The bad news is that now I don't have any RX and the VFO doesn't light up. I figured I must have pulled a wire loose somewhere but I haven't found it. It acts like the bandswitch is between positions. The bandswitch is a little flaky anyway but I don't think I did anything to it.

Any ideas about what I fouled up this time?

Kerry - working on a snakebit radio!

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1" <kmiller01@...> wrote:
>
> Ok, guys, here's what I just sent to Gordon but I wanted to keep
> everybody in the loop. Since I've used up about 95% of the bandwidth
> on this group the last couple of days, why stop now? ;-)
>
> Maybe some of this will make sense to you guys.
>
> Kerry
>
> Gordon,
>
> Yep, I started digging into the AF board last nite, it seems to me the
> problem has to be between where the sidetone and mic come in and the
> vox amp. I'm looking there now, I haven't taken any readings on those
> resistors yet but here's what I'm getting at some test points:
>
> tp1: 0v
> tp3: 12v
> tp6: 9v
> tp5: 5v
> tp4: 10.2v
>
> I don't remember which lead is which on Q1 so I'll just tell you what

> I'm looking at. With the flat side of the transistor facing away from
> me, looking down from the top, I'll call the pins 1, 2, and 3 starting
> from the left. I guess that's backwards, but maybe you can figure it
> out! Here's what I've got:
> 1: 12v
> 2: 0v
> 3: 12v
> This transistor is sticking up from the board and doesn't look like
> an original part or at least not a factory installation job. Several
> parts on this board have solder blobs on the top of them like somebody
> tacked a wire to them at one time. Those parts that look fishy are:
> D17
> R75
> R80
> J18
> R68
> R47
> R67
> J21
> R74
>
> I've located some of those resistors you named off, I'll start taking
> some measurements on those. R1 is not original, it's too big, like a
> 1 watt. There is a wire wrap thing next to R1 labeled STB, it has a
> wht/org wire (maybe wht/red, I'm colorblind!) wrapped on it. It has
> 107v on it. R1 has 1.5v, R3 looks like .8v. R5 is 0v. R4 looks like
> either 0v or .01v. R2 looks like it connects to almost the same place
> as R1 and has 1.5v also.
>
> There are several wires on this board with black tape on it, looks
> like somebody cut these wires and put them back together. One is
> white/red on a terminal between C81 and Q30. There's a yellow wire on
> that same terminal with tape on it. Another wire on that same post, I
> think it's wht/yellow, has tape on it.
>
> On connector 6, there is a blue wire clipped, it's the 2nd wire back
> from the front of the rig, the first one is yellow.
>
> It looks like somebody has been all over this AF board, I'm willing to
> bet that's where the trouble is. Does any of that sound helpful to you?
>
> I'll post this over to the group so everybody else can see what we're
> up to!
>
> Thanks, I appreciate all your help!
>
> Kerry
>

73' Rick KC0HH
Lamar, Colorado

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

10900. Re: Any GB member of this list re-tube an 830 for me.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 16:16:04 UTC
From: Clif
Topic: 10852 Message: 10900

Texas is a tad far to help with re-tubing, but you can run the radio without any tubes. Just make sure the plate leads are not touching or close to anything. Easier to just leave the tubes in, won't hurt anything. SG doesn't matter.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Jon, M1CBH" <website@...> wrote:
>
> Hi all,
>
> Is there any member of this group that a) Lives anywhere near Mansfield,
> Nottinghamshire, UK and b) is able to re-tube a TS-830S for me.
>
> I can't/won't do it as I have a co-ordination disability and do not
> really want to poke around with HV stuff and/or damage my radio.
>
> If I can't get any help I may end up selling on ebay.
>
> Oh, BTW it's definitely the tubes/valves that have gone, you can lift
> the anode cap clean off from of of them.
>
> Also, on a sort of side issue, is it possible/safe to power on a TS-830S
> that doesn't have it's 6146's inside it at the moment(possibly with the
> SG switch off?).
>
> regards and 73s
>
> Jon, M1CBH
>

10901. Re: 520 tune up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 19:37:55 UTC
From: n2mu_1
Topic: 10867 Message: 10901

Gary,

If I interpreted your post correctly, your assumption is correct and you have a problem...

If your transmitter is operating properly the plate current dip should correspond with peak RF output. Your failure to have the two events coincide (plate dip current at max RF output) is a strong indication that you need to Neutralize the Transmitter to "compensate" for the in phase passive RF output of the output tubes' grid to plate capacitance. This capacitance is very small but, because of the high gain of the tubes, its effect will be more pronounced as you go higher in frequency, ie loading up on 40meters will show a better (more correct) correlation, plate dip when RF output peaks, than loading up on 10meters where the problem will be more pronounced.

I assume that the TS-520 has a neutralization variable capacitor in the RF output stage as my TS-830S does along with a suggested procedure for neutralizing the transmitter in the manual. However, in the absence of a set procedure you should refer to the ARRL Handbook for a general guideline method of neutralization.

Alternatively you can make small adjustments to the neutralization capacitor with the rig off and recheck the plate dip correlation to the RF peak output (on 10 or 15 meters) - trial and error - until the plate dip correlates well with max RF output...This usually works effectively without getting into temporary modifications of applied output tube grid voltages and test equipment... The usual high voltage cautions apply if you choose to stick tuning tools in this area to adjust while high voltages are present.

One caveat is that if you are unable to abate the problem within the adjustment range of the neutralization capacitor (assuming it has one), replacement of the output tubes may be in order (tubes show widely varying neutralization requirements and my experience is that neutralization adjustments need to be tweaked as the tubes age) and / or you may need to modify the rig (by increasing the load) looking into the control grid of the finals by lowering the impedance a bit. The driver stage may have a little extra power to spare, to drive a slightly heavier load looking into the input of the finals control grid and still achieve full output from the finals...
Hope this helps...
What Say?

73 Hank N2MU ...-.- ..

--- In TS-520_820_530_830@yahoogroups.com, gary Samouris
<gsammy52@...> wrote:
>
> I have one more question.... When tuning up the ts 520
transmitter, I dip the plate as directed, then go to RF and peak
the plate and load. After doing this, I look at the plate current
and it is very high. I can then get it to dip to normal value by
adjusting the plate control again. Shouldn't the plate be dipped
when the RF out is at its peak. I can't find anything on this in the
book. Anyone got the solution
> thanks
> gary KC5BJ
>
>
>
> [Non-text portions of this message have been removed]
>

10902. Re: [TS-520_820_530_830] Any GB member of this list re-tube an 830 for me.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 18:35:47 UTC
From: Graham Ridgeway
Topic: 10852 Message: 10902

On Sun, 12 Nov 2006 15:41:38 +0000, Jon wrote:

>Hi all,
>
>Is there any member of this group that a) Lives anywhere near Mansfield,
>Nottinghamshire, UK and b) is able to re-tube a TS-830S for me.
>
Jon.
Are you a member of, or know anyone at the Mansfield ARC ?
When I lived down there [up till '88] there were plenty of 'Valve
Users' around.
Duncan G4DFV springs to mind for one.

73 Graham M5AAV

10903. Re: [TS-520_820_530_830] Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 19:55:57 UTC
From: Another Old Codger
Topic: 10852 Message: 10903

I'm probably teaching 'Granny to suck eggs', but, whatever you do, don't use the latest silver based solder. These boards were made using tin/lead solder, and the two types are incompatible.

Hoard all the tin/lead solder that you can get your hands on. There are rumours that this new regime is already causing problems.

73, Ron G8URU.

----- Original Message -----
From: "ve3tmt" <ve3tmt@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, November 12, 2006 2:47 PM
Subject: [TS-520_820_530_830] Re: Problem - no audio on an 830S

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1" <kmiller01@...> wrote:

Any ideas about what I fouled up this time?

If the RX and the VFO were working before you pulled the board, obviously it is a connecton on the IF board at fault. Did you resolder every pin of every connector as suggested? The sold joints may look good but the pin will actually break connection with the solder and lose contact. On a few of mine they connector actually pulled out leaving nice soldered holes! Are you sure you put the wires back in the right spot?? I marked all my connectors with a Sharpie marker so there is no mistake where they go. I have had my IF board in and out about 10 times and never had this problem Kerry. Check all the connections, wiggle a few connectors and let us know what you find.

Max VE3TMT

10904. Enabling WARC for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 22:58:05 UTC
From: Robert
Topic: 10904 Message: 10904

Hi,

I've got a very nice 830S that has not been WARC enabled and I'm finding it hard to get info for my particular rig. It's evidently an early radio(ser# 1080919) and the RF Unit is the X43-1370-00. I've seen where you should cut D5 and D6 but am confused as to whether this applies to this particular RF Unit number.

Any help here???

Thanks Much,

Robert KD7AUB

10905. Re: Enabling WARC for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 23:29:42 UTC
From: kerrygeek1
Topic: 10904 Message: 10905

Hey, I can help with this one! Finally, after mooching off this group for the last few days maybe I can give back a little bit.

I've been working on an 830S the last several days and studying the service manual until I'm cross-eyed. You only need to clip those diodes if you want to enable individual bands. To enable all the WARC bands at the same time, you clip one wire on a connector on the AF board.

Look in the "files" section of the group and download the service and operators manual if you haven't already, they're worth their weight in gold. I believe you can find a hi-res pdf of the schematic on K4EAA's site if you want it (I think that's where I got it).

On page 37 of the service manual, it tells you how to enable the WARC bands individually or all at once. To do all of them clip the wire on the AF board at Connector 6, Pin 4. On the rig I'm working on right now, I think that wire is blue.

It says to enable the individual bands, go to the RF board and clip this part:

10MHz - D4
18 MHz - D5
24.5 MHz - D6

Just clip the wire and get them all at once, it's easy to get to. If my instructions are too confusing, the guys on here are great, they can straighten you out.

73,
Kerry
WD5ABC

--- In TS-520_820_530_830@yahoogroups.com, "Robert" <robertmadore@...> wrote:
>
> Hi,
>
> I've got a very nice 830S that has not been WARC enabled and I'm
> finding it hard to get info for my particular rig. It's evidently an
> early radio(ser# 1080919) and the RF Unit is the X43-1370-00. I've
> seen where you should cut D5 and D6 but am confused as to whether this
> applies to this particular RF Unit number.
>
> Any help here???
>
> Thanks Much,

>
> Robert KD7AUB
>

10906. Re: Problem - no audio on an 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-12 23:37:18 UTC
From: kerrygeek1
Topic: 10852 Message: 10906

I've heard that before. I bought 2 - 1 pound rolls of solder, 2
different sizes, at a hamfest a couple of months ago. I had some of
the real fine solder I've been using since 1980 so this one should
last me until I'm too old to take on projects that need fine solder!
I use the bigger stuff for some jobs and save the .015 stuff for the
projects that really need it.

I haven't even tried any of the new stuff but have heard the guys on
the QRP list talk about it. It may be ok if that's all you use on a
project and don't try to mix it, the temps may be too different to be
compatible. I also don't know if having different kinds of metal
might cause some kind of electrolysis, I just haven't played with it.

So, I guess all those times back when I was a kid and held a loop of
solder in my mouth probably wasn't too good of an idea?

;-)
Kerry
WD5ABC

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
<clattering.ford@...> wrote:
>
> I'm probably teaching 'Granny to suck eggs', but, whatever you do,
> don't use the latest silver based solder. These boards were made using
> tin/lead solder, and the two types are incompatible.
>
> Hoard all the tin/lead solder that you can get your hands on. There
> are rumours that this new regime is already causing problems.
>
> 73, Ron G8URU.
>
> ----- Original Message -----
> From: "ve3tmt" <ve3tmt@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Sunday, November 12, 2006 2:47 PM
> Subject: [TS-520_820_530_830] Re: Problem - no audio on an 830S
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1"
> <kmiller01@> wrote:
>
> Any ideas about what I fouled up this time?
>
>
> If the RX and the VFO were working before you pulled the board,

> obviously it is a connecton on the IF board at fault. Did you resolder
> every pin of every connector as suggested? The sold joints may look
> good but the pin will actually break connection with the solder and
> lose contact. On a few of mine they connector actually pulled out
> leaving nice soldered holes! Are you sure you put the wires back in
> the right spot?? I marked all my connectors with a Sharpie marker so
> there is no mistake where they go. I have had my IF board in and out
> about 10 times and never had this problem Kerry. Check all the
> connections, wiggle a few connectors and let us know what you find.
>
> Max VE3TMT
>

10907. Re: [TS-520_820_530_830] 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 00:14:54 UTC
From: Bill Richarz
Topic: 10888 Message: 10907

John,

I'm interested in a working TV-506 at this time
for my TS-820S. If you can point me toward a source
that would be nice. Or if you know someone who has a
non working one maybe you could help me get it going.

tnx & 73 de Bill, N4DH

--- John Harp <ka3dpw@...> wrote:

> Kenwood made the TV 502 for 2 meters and the
> TV-506 for 6 meters. They were originally built to
> attach to the TS-520. They can easily enough mouint
> to the 820 also.
>
> I'm adapting one of the TV-502 units to TS-830S.
> I'm looking for also get a TV-506 and use that with
> the 830 as well. I've heard of these being attached
> to other Kenwood models also.
>
> james is another person in the group who has
> Kenwood transverters. He uses the 520 for his and he
> also has a 530.
>
> The power out is about 8 watts.
>
> Are you interested in VHF? If so you may want to
> look at the TV-502's on ebay right now.
> I got two of them without cables and manual. I paid
> 80 and 50. But I can get them going too. If you
> don't know much of these units you may want to
> conder the higher cost of a complete unit.
> Bill Richarz <billn4dh@...> wrote:
> Did Kenwood make a 6 meter transverter for
> the
> TS-820S.
> It mentions a 2-meterTV in my owner's manual but
> nothing for 6 meter. If so, how much power does it
> put out?
>
> tnx & 73 de Bill, N4DH
>
>

> Do you Yahoo!?

> Everyone is raving about the all-new Yahoo! Mail
> beta.
> http://new.mail.yahoo.com
>
>
>
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail
> beta.
>
> [Non-text portions of this message have been
> removed]
>
>

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

10908. Re: [TS-520_820_530_830] Re: Enabling WARC for 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 00:26:57 UTC
From: John Harp
Topic: 10904 Message: 10908

Way to go. I remember my start I felt the same way as you. Yes it's nice to be able to help.

I did the wire snip thing to my first TS-830 back in the 1980's. I put the cover back on and the radio wouldn't work. I was stumped for months. Finally for tech school I brought it in to school, but just before I did the nite before I opened the radio for a look. I found I pinched a wire closing the radio back up. A little black electrical tape solved that problem.

I didn't have the group to call on then. I was boggled then but laugh todayat it. Just wanted to share that.

kerrygeek1 <kmiller01@...> wrote:
Hey, I can help with this one! Finally, after mooching off this group for the last few days maybe I can give back a little bit.

I've been working on an 830S the last several days and studying the service manual until I'm cross-eyed. You only need to clip those diodes if you want to enable individual bands. To enable all the WARC bands at the same time, you clip one wire on a connector on the AF board.

Look in the "files" section of the group and download the service and operators manual if you haven't already, they're worth their weight in gold. I believe you can find a hi-res pdf of the schematic on K4EAA's site if you want it (I think that's where I got it).

On page 37 of the service manual, it tells you how to enable the WARC bands individually or all at once. To do all of them clip the wire on the AF board at Connector 6, Pin 4. On the rig I'm working on right now, I think that wire is blue.

It says to enable the individual bands, go to the RF board and clip this part:

10MHz - D4
18 MHz - D5
24.5 MHz - D6

Just clip the wire and get them all at once, it's easy to get to. If my instructions are too confusing, the guys on here are great, they can straighten you out.

73,
Kerry
WD5ABC

--- In TS-520_820_530_830@yahoogroups.com, "Robert" <robertmadore@...> wrote:

>
> Hi,
>
> I've got a very nice 830S that has not been WARC enabled and I'm
> finding it hard to get info for my particular rig. It's evidently an
> early radio(ser# 1080919) and the RF Unit is the X43-1370-00. I've
> seen where you should cut D5 and D6 but am confused as to whether this
> applies to this particular RF Unit number.
>
> Any help here???
>
> Thanks Much,
>
> Robert KD7AUB
>

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

10909. Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 03:16:44 UTC
From: kerrygeek1
Topic: 10909 Message: 10909

I appreciate all you guys' help but I think I'm going to tell my friend to take this rig back. If he's got his heart set on an 830, we'll find a better one, he's already seen a couple of others for sale.

I did get the audio fixed, it transmits great, has the typical 830 strong audio and sounds great with the Shure 444 mic. But, while I was playing with the audio, the rx died. I didn't even have the covers off the rig, so there's no way I did it this time! ;-) The rx is very weak, I looked around a little and found the t/r relay in the back was loose. That wasn't the problem, even though it was about to fall out, but somebody has put in an oddball relay and "modified" the pins to make them fit by breaking one off and soldering a stiff piece of wire to it so it would fit in the socket.

This rig has been butchered so many times, I'm afraid it will keep on making problems for him.

Once the audio started working, I tried the vox, I've got audio but no vox so apparently the CW break-in problem wasn't the sidetone osc but a problem with the vox. I haven't chased that one down yet.

This rig apparently spent a lot of its life as a CB and has a lot of spliced wires and soldered parts with big blobs of solder. If my friend was a techie and wanted to restore it, maybe it would be better for him but he wants to get on the air. I don't think this is going to be the rig for him.

Thanks for all your help, you guys have been great. Maybe while I'm in the old-radio tinkering mood I'll work on my old Drake twins and show him how real glow-in-the-dark radios work.

Humm, if we only had an old R-820 to go with this one, it transmits ok... ;-)

73,
Kerry, WD5ABC
Victoria, TX

10910. Re: [TS-520_820_530_830] Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 03:36:39 UTC
From: Ruben Echevarria
Topic: 10909 Message: 10910

Weak RX could be coming from the #6 connector on the IF board. Tug on the cable a little with the
radio on and see if the RX comes to life. It happened to me.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: kerrygeek1 <kmiller01@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 12, 2006 10:16:44 PM
Subject: [TS-520_820_530_830] Update on the sick 830S

I appreciate all you guys' help but I think I'm going to tell my
friend to take this rig back. If he's got his heart set on an 830,
we'll find a better one, he's already seen a couple of others for sale.

I did get the audio fixed, it transmits great, has the typical 830
strong audio and sounds great with the Shure 444 mic. But, while I
was playing with the audio, the rx died. I didn't even have the
covers off the rig, so there's no way I did it this time! ;-) The
rx is very weak, I looked around a little and found the t/r relay in
the back was loose. That wasn't the problem, even though it was about
to fall out, but somebody has put in an oddball relay and "modified"
the pins to make them fit by breaking one off and soldering a stiff
piece of wire to it so it would fit in the socket.

This rig has been butchered so many times, I'm afraid it will keep on
making problems for him.

Once the audio started working, I tried the vox, I've got audio but no
vox so apparently the CW break-in problem wasn't the sidetone osc but
a problem with the vox. I haven't chased that one down yet.

This rig apparently spent a lot of its life as a CB and has a lot of
spliced wires and soldered parts with big blobs of solder. If my
friend was a techie and wanted to restore it, maybe it would be
better for him but he wants to get on the air. I don't think this is
going to be the rig for him.

Thanks for all your help, you guys have been great. Maybe while I'm
in the old-radio tinkering mood I'll work on my old Drake twins and
show him how real glow-in-the- dark radios work.

Humm, if we only had an old R-820 to go with this one, it transmits
ok... ;-)

73,
Kerry, WD5ABC
Victoria, TX

[Non-text portions of this message have been removed]

10911. Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 13:52:13 UTC
From: ve3tmt
Topic: 10909 Message: 10911

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1"
<kmiller01@...> wrote:
>
> I appreciate all you guys' help but I think I'm going to tell my
> friend to take this rig back. If he's got his heart set on an 830,
> we'll find a better one, he's already seen a couple of others for sale.

I agree Kerry. Even if you fixed it now, what's next?? There are lots
of good 830's out there to be had.

10912. Am I Correct

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 18:35:51 UTC
From: Graham Ridgeway
Topic: 10912 Message: 10912

Greetings Experts.

I have just started using my TS530S on RTTY and PSK [I used to use my SG2020, but that's another story. <smile>]

I load and tune the rig normally into dummy load and then the aerial [thank goodness for automatic ATU's] Peak Drive, Dip, then tweak for maximum smoke.

Then, using the Mic Gain as the 'power control' bring the indicated output up to around 30watts on 'diddles'.

I show no ALC when running - which I understand to be correct, and an indicated IP of 150mA [- ish, but never higher]

One thing I do notice is that if, for example, and I use MixW, if I am set on 1,000hz on the waterfall and indicating 30watts, if i go up to 1,500hz the power output will rise to c40watts - I assume due to the transmit audio shape factor of the 530. [I won't say what that does to the PC - Hi ! - yes I need to sort that problem out.]
I do find that if I use the Narrow [standard] CW filter on receive, that is quite superb, and actually gives me a nice 'guideline' of where to operate without blasting the pooter into orbit.

Does this sound good ?

73 Graham M5AAV

10913. Re: Am I Correct

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 21:32:37 UTC
From: ve3tmt
Topic: 10912 Message: 10913

Graham,

I am using the 830 on PSK and RTTY with excellent results. I use MixW for my PSK as well. When everything is set right, the MIC GAIN at 12 o'clock gives me about 50 watts out. I have the sliders on my sound card at about half and then I adjust my RigBlaster to the appropriate level to get the 50W output. If I want to run less I just turn down the MIC GAIN. I get reports of a nice clean signal. I always idle on 1000 Hz. If I go higher or lower my output drops like yours. This is due to the passband of the mic amp. Did you wire your CW filter to work in SSB mode? I did and I use the narrow filter all the time on PSK. It is amazing what a difference it makes in receiving.

Max VE3TMT

10914. Re: [TS-520_820_530_830] Re: Am I Correct

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-13 23:17:04 UTC
From: Graham Ridgeway
Topic: 10912 Message: 10914

On Mon, 13 Nov 2006 21:32:37 -0000, you wrote:

>Graham,
>
>I am using the 830 on PSK and RTTY with excellent results. I use MixW
>for my PSK as well. When everything is set right, the MIC GAIN at 12
>o'clock gives me about 50 watts out. I have the sliders on my sound
>card at about half and then I adjust my RigBlaster to the appropriate
>level to get the 50W output. If I want to run less I just turn down
>the MIC GAIN. I get reports of a nice clean signal. I always idle on
>1000 Hz. If I go higher or lower my output drops like yours. This is
>due to the passband of the mic amp. Did you wire your CW filter to
>work in SSB mode? I did and I use the narrow filter all the time on
>PSK. It is amazing what a difference it makes in receiving.
>
>Max VE3TMT
>
>

Thanks Max.

I use a small interface box twixt PC and 530. [G3LIV's]

Audio card slider is just on one line up from minimum, mic gain is a
gnats thingy above number 2. I have to say that it is 'very' twitchy
and needs a steady hand else the power o/p goes flying up. 3 would
probably give me full output !
The CW filter has always worked in the SSB position on this rig, as
well as on CW.

I just wish I could keep the RF out of the pooter at anything over 30
watts ish.Everything is ferrited.

One thing I do find is that leaving everything 'as is' I get vastly
different output readings when switching twixt PSK and RTTY, but I can
live with that.

73 Graham M5AAV

10915. Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 05:14:05 UTC
From: kerrygeek1
Topic: 10909 Message: 10915

Yeah, if he was a tinkerer and wanted a project (and paid a project price) that would be one thing but he's wanting to get on the air. We just got back from making about a 3 hr round trip to take the rig back to the previous owner (who was very nice and wanted us to be satisfied with the deal). He admitted that he hadn't ever tried the vox and had never operated CW on this rig.

Gordon, I told him about your rig but he's decided to save his pennies and get the Yaesu FT-897 he's been drooling over for a year or so. In the meantime, I have on old Hw-101 I built in '78 I might resurrect for him. I keep offering him my NorCal 40A but he isn't too comfortable with CW yet. I think the biggest thing is he doesn't want to borrow a rig. I don't blame him for that (but I didn't offer to loan him my 990 or my Drake Twins!)

Thanks for all your help guys!

73,
Kerry, WD5ABC

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1"
> <kmiller01@> wrote:
> >
> > I appreciate all you guys' help but I think I'm going to tell my
> > friend to take this rig back. If he's got his heart set on an 830,
> > we'll find a better one, he's already seen a couple of others for
sale.
>
>
> I agree Kerry. Even if you fixed it now, what's next?? There are lots
> of good 830's out there to be had.
>

10916. The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 12:39:58 UTC
From: digs4ruff
Topic: 10916 Message: 10916

I am still a bit confused on finals. The way I understand it is as follows.

TS-820S
S2001A = 6146B or 6146W (rugged) Do not use Chinese tubes.

TS-510
S2001 = 6146 or 6146A

In the TS-820 can I use the 6146 or 6146A. Will this give reduced power.

In the TS-510 can I use the 6146b or 6146W. Will this give more power output.

thanks for the clarification
Barry in wet Vancouver. 12 inches of rain last Monday and pretty well straight drizzle since with another storm front due Wednesday.

10917. The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 13:02:44 UTC
From: digs4ruff
Topic: 10916 Message: 10917

Another question on the tubes.

Can the cheaper 6146 6146A tubes be used in the TS-820s albeit at a reduced power output? I understand it would be about 70W instead of 100W or roughly 30% less power.

When you think of all the QRPers out there it makes you wonder why you are trying to squeeze that last watt or two out of the rig. Why do we worry about getting 110W instead of 100W? One S unit at the recieve end maybe? If we need more power to be heard in the pile up shouldn't we be looking at an amplifier of minimum 600W. Should we instead be focussed on removing all the background noise we can through such changes as the diode swap out? I know this made a substantial difference to my ability to make contacts.

I know that a successful QSO is based on both parties having a good experience but sometimes I think we push the envelope rather than just showing some patience till the bands come good again.
BE READY. IT WILL HAPPEN SOON.
regards
Barry

10918. RE: [TS-520_820_530_830] Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 13:14:51 UTC
From: Darwin, Keith
Topic: 10909 Message: 10918

Pardon me, but isn't this a step down from the 830s? More bells &
whistles, less basic performance? And for more money?

I've never had one so I can't say for sure. Maybe one of you does and
can comment?

- Keith N1AS -

-----Original Message-----
From: kerrygeek1

... but he's decided to save his pennies and get the Yaesu FT-897 he's
been drooling over for a year or so.

10919. Off Topic Test Equipment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 13:29:05 UTC
From: digs4ruff
Topic: 10919 Message: 10919

I recently bought a non working 80mhz frequency counter at a bargain price. It is working now after replacing one dried out electrolytic. I would like to set this up as a digital dislay for the TS-510. Any suggestions on a home brew probe. I was thinking of simply a piece of coax wrapped around the transmit coax. This would provide a readout during the TUNE portion of the tune up or if changing frequencies within the band simply switch to TUNE. WOuld the counter be overloaded in the transmit mode. Should I be looking for a spot inside the radio to monitor the frequency.
thanks
Barry

10920. Re: [TS-520_820_530_830] The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 13:30:54 UTC
From: wf2u@starband.net
Topic: 10916 Message: 10920

One S-unit is 6dB. 6dB is 4 times the power (or one-quarter if it's - 6dB).
So to squeeze out another S-point you'd need 400W if your reference is 100W.
On the other hand, if your power output is 25W, your signal is going to be
one S-unit less than the reference 100W signal.

The difference between 100W and 110W is not noticeable, except on the
power meter... In fact, the difference between 70W and 100W is only 1.5
dB, which is 1/4 of an S-unit.

73, Meir WF2U
Landrum, SC

> Another question on the tubes.
>
> Can the cheaper 6146 6146A tubes be used in the TS-820s albeit at a
> reduced power output? I understand it would be about 70W instead of
> 100W or roughly 30% less power.
>
> When you think of all the QRPers out there it makes you wonder why you
> are trying to squeeze that last watt or two out of the rig. Why do we
> worry about getting 110W instead of 100W? One S unit at the recieve end
> maybe?.............

> regards
> Barry
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

10921. Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:19:21 UTC
From: Ellen R
Topic: 10916 Message: 10921

Hi Barry,

I don't see why you shouldn't be able ot use 6146B or Ws in your TS-510. If I remember right (from what little bit of info I have on the TS-510), it was first made in the late 60s or very early 70s. The 6146B came out in 1963. Once it came out the 6146A was discontinued (the 6146 was discontinued when the 6146A came out), so I doubt that Kenwood designed the 510 for the 6146A or 6146. Therefore, you should be able to use 6146Bs or Ws. Power will not really be increased using a 6146B, and yes like the other Kenwood hybrids, you can use 6146s & 6164As. It's just that power output will be less, due to the lower plate dissipation of these tubes.

BTW - you metioned in one of your posts, about 6146s & 6146As being cheaper. I don't see how that could be so, considering that these earlier 6146 tube versions were discontinued over 40 plus years ago. I would think that they would be as scarce (if not more so), than the basic 6146B, and as such would cost as much (maybe even more) as a 6146B. Do you have a bunch of them laying around that you can use?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> I am still a bit confused on finals. The way I understand it is as
> follows.
>
> TS-820S
> S2001A = 6146B or 6146W (rugged) Do not use Chinese tubes.
>
> TS-510
> S2001 = 6146 or 6146A
>
> In the TS-820 can I use the 6146 or 6146A. Will this give reduced
> power.
>
> In the TS-510 can I use the 6146b or 6146W. Will this give more
power
> output.
>
> thanks for the clarification
> Barry in wet Vancouver. 12 inches of rain last Monday and pretty
well
> straight drizzle since with another storm front due Wednesday.

>

10922. TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:10:01 UTC
From: scott
Topic: 10922 Message: 10922

Hi to the group. When I tune on 80 meters the plate tune pointer ends up at, or close to the "1.8" mark instead of near the "3.5" mark after I dip the plate. All other bands are close to their respective marks. All other readings are as they should be and I can't figure out exactly why this is occuring. Thanks for reading. Cheers, scott. KG6BRG

10923. Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:11:12 UTC
From: w5rkl
Topic: 10916 Message: 10923

Yes, the 6146/6146A can be substituted for the 6146B. Check the
following link for info on substituting 6146/6146As and 6146Bs.

http://www.muchstuff.com/6146.htm

A difference of 10 watts, 110 watts verses 100 watts, will not make
any difference in signal strength at the receiving end. It's not just
the output power that makes the difference. Band conditions, noise
(receiver and/or atmospheric) and the antenna also play a role in how
well the transmitter's signal is heard at the receiving end.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> Another question on the tubes.
>
> Can the cheaper 6146 6146A tubes be used in the TS-820s albeit at a
> reduced power output? I understand it would be about 70W instead of
> 100W or roughly 30% less power.
>
> When you think of all the QRPers out there it makes you wonder why
> you are trying to squeeze that last watt or two out of the rig. Why
> do we worry about getting 110W instead of 100W? One S unit at the
> recieve end maybe? If we need more power to be heard in the pile up
> shouldn't we be looking at an amplifier of minimum 600W. Should we
> instead be focussed on removing all the background noise we can
> through such changes as the diode swap out? I know this made a
> substantial difference to my ability to make contacts.
>
> I know that a successful QSO is based on both parties having a good
> experience but sometimes I think we push the envelope rather than
> just showing some patience till the bands come good again.
> BE READY. IT WILL HAPPEN SOON.
> regards
> Barry
>

10924. Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:42:29 UTC
From: digs4ruff
Topic: 10916 Message: 10924

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
> BTW - you metioned in one of your posts, about 6146s & 6146As
being
> cheaper. I don't see how that could be so, considering that these
> earlier 6146 tube versions were discontinued over 40 plus years
ago.
> I would think that they would be as scarce (if not more so), than
the
> basic 6146B, and as such would cost as much (maybe even more) as a
> 6146B. Do you have a bunch of them laying around that you can use?
>
> 73,
> Ellen - AF9J

Ellen
Have a look at FleaBay. The 6146Bs go for 25-45 dollars per pair.
The 6146/6146A tubes regularly sell at under $10 per pair. Most do
claim to have tested the tubes. If untested pay less than a couple
of bucks and take a chance. It would seem that price depends a lot
on demand.
regards
Barry

10925. Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:36:12 UTC
From: Ellen R
Topic: 10909 Message: 10925

Hi Keith,

Actually I have an FT-897D. It's not an Orion II, but I think it's a decent rig. It depends upon what you're going to use it for. I use mine for contesting, the digital modes, 6, 2, & 432 SSB & CW, and HFpack stuff (I had a blast this last Saturday, throwing it in a backpack, hiking through some marshland trails in 40 degree weather, and talking with some west coast hams, while I was hiking). The audio is different on both receive and transmit than a TS-830S (nothing can beat tubes for tranmsit audio on SSB or AM). Yes the reciever is a bit noisier than my TS-820, but then again, that's because it's synthesized. In my personal opinion, not even DDS receivers are as quiet (even using DSP as a band-aid), as a good VFO driven receiver.

All-in-all I like my FT-897D. I also like my TS-820, and my Swan 270B. They all have their place in the shack. My 897D is my SUV, my 820 is my vintage BMW, and my Swan is my vintage Chevy Nova. It depends upon what you want to use them for.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Darwin, Keith" <keith.darwin@...> wrote:
>
> Pardon me, but isn't this a step down from the 830s? More bells &
> whistles, less basic performance? And for more money?
>
> I've never had one so I can't say for sure. Maybe one of you does and
> can comment?
>
> - Keith N1AS -
>
> -----Original Message-----
> From: kerrygeek1
>
> ... but he's decided to save his pennies and get the Yaesu FT-897 he's
> been drooling over for a year or so.
>

10926. Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:50:16 UTC
From: Ellen R
Topic: 10922 Message: 10926

Hi Scott,

You will notice that thre is an arced line that corresponds to each band. Is the plate dip pointer inside of the arc for 3.5? It depends upon where you are frequency wise. If you are at the upper end of the band, your 520S should generally plate tune to the high end of the arc (and vise versa for the low end of the band). But this is not written in stone. BTW, the tuning arcs for 1.8 & 3.5 do overlap each other. as do other bands.

If plate tune is excessively far off (for instance you're tuned out of the tuning arc range for the 80m band, when you're on 80m, or you wanted to tune to 3995 kHz, and you're way at the bottom end of the tuning arc), then it could be a sign of components stariting to go on the finals board, or in some cases, worn out finals (although,more than likely this would manifest itself as a loss of output power).

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...>
wrote:
>
> Hi to the group. When I tune on 80 meters the plate tune pointer
> ends up at, or close to the "1.8" mark instead of near the "3.5" mark
> after I dip the plate. All other bands are close to their respective
> marks. All other readings are as they should be and I can't figure
> out exactly why this is occuring. Thanks for reading. Cheers,
> scott. KG6BRG
>

10927. Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:43:58 UTC
From: Clif
Topic: 10922 Message: 10927

Don't worry about it as long as it tunes properly. Component variation
(but still within spec) can cause it. On 80m you are switching in a
couple of big caps..

Clif

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hi to the group. When I tune on 80 meters the plate tune pointer
> ends up at, or close to the "1.8" mark instead of near the "3.5" mark
> after I dip the plate. All other bands are close to their respective
> marks. All other readings are as they should be and I can't figure
> out exactly why this is occuring. Thanks for reading. Cheers,
> scott. KG6BRG
>

10928. Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 15:00:32 UTC
From: Ellen R
Topic: 10916 Message: 10928

FleaBay - LOL. I like that. I've heard it called E-Pay, and E-Pain,
but not FleaBay. I'll have to add that to my lexicon for E-Bay.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
> Ellen
> Have a look at FleaBay. The 6146Bs go for 25-45 dollars per pair.
> The 6146/6146A tubes regularly sell at under $10 per pair. Most do
> claim to have tested the tubes. If untested pay less than a couple
> of bucks and take a chance. It would seem that price depends a lot
> on demand.
> regards
> Barry
>

10929. Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 14:55:44 UTC
From: Ellen R
Topic: 10916 Message: 10929

Hmmmmmmm, that's news to me. I didn't realize that was the case. I wonder if it's because of the demand being lower for 6146s & 6146As (demand drives price), and/or the possibility that fewer 6146Bs were made than 6146s and 6146As. Oh well, you learn something new everyday.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
> > BTW - you metioned in one of your posts, about 6146s & 6146As being
> > cheaper. I don't see how that could be so, considering that these
> > earlier 6146 tube versions were discontinued over 40 plus years ago.
> > I would think that they would be as scarce (if not more so), than the
> > basic 6146B, and as such would cost as much (maybe even more) as a
> > 6146B. Do you have a bunch of them laying around that you can use?
> >
> > 73,
> > Ellen - AF9J
>
> Ellen
> Have a look at FleaBay. The 6146Bs go for 25-45 dollars per pair.
> The 6146/6146A tubes regularly sell at under $10 per pair. Most do
> claim to have tested the tubes. If untested pay less than a couple
> of bucks and take a chance. It would seem that price depends a lot
> on demand.
> regards
> Barry
>

10930. Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 15:59:56 UTC
From: w5rkl
Topic: 10916 Message: 10930

Here is a link that will fully explain the differences in the 6146 tube.

http://k9sth.com/Page_2.html

Once the page comes up, click on the article link "6146 Family of Tubes".

The document is written in Word format but can be viewed using
Microsofts Wordpad.

There are differences in the tubes as the article clearly shows.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Barry,
>
> I don't see why you shouldn't be able ot use 6146B or Ws in your TS-
> 510. If I remember right (from what little bit of info I have on the
> TS-510), it was first made in the late 60s or very early 70s. The
> 6146B came out in 1963. Once it came out the 6146A was discontinued
> (the 6146 was discontinued when the 6146A came out), so I doubt that
> Kenwood designed the 510 for the 6146A or 6146. Therefore, you
> should be able to use 6146Bs or Ws. Power will not really be
> increased using a 6146B, and yes like the other Kenwood hybrids, you
> can use 6146s & 6164As. It's just that power output will be less,
> due to the lower plate dissipation of these tubes.
>
> BTW - you metioned in one of your posts, about 6146s & 6146As being
> cheaper. I don't see how that could be so, considering that these
> earlier 6146 tube versions were discontinued over 40 plus years ago.
> I would think that they would be as scarce (if not more so), than the
> basic 6146B, and as such would cost as much (maybe even more) as a
> 6146B. Do you have a bunch of them laying around that you can use?
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
> <digs4ruff@> wrote:
> >
> > I am still a bit confused on finals. The way I understand it is as
> > follows.

> >
> > TS-820S
> > S2001A = 6146B or 6146W (rugged) Do not use Chinese tubes.
> >
> > TS-510
> > S2001 = 6146 or 6146A
> >
> > In the TS-820 can I use the 6146 or 6146A. Will this give reduced
> > power.
> >
> > In the TS-510 can I use the 6146b or 6146W. Will this give more
> power
> > output.
> >
> > thanks for the clarification
> > Barry in wet Vancouver. 12 inches of rain last Monday and pretty
> well
> > straight drizzle since with another storm front due Wednesday.
> >
>

10931. Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 17:20:14 UTC
From: Gordon
Topic: 10909 Message: 10931

Thanks Kerry,
I hope he gets his 897 and has fun with it.
I'm sure he'll be happy once he gets anything on the air.
Have fun resurrecting the HW-101.
73,
Gordon

> Gordon, I told him about your rig but he's decided to save his pennies
> and get the Yaesu FT-897 he's been drooling over for a year or so. In
> the meantime, I have on old Hw-101 I built in '78 I might resurrect
> for him. I keep offering him my NorCal 40A but he isn't too
> comfortable with CW yet. I think the biggest thing is he doesn't want
> to borrow a rig. I don't blame him for that (but I didn't offer to
> loan him my 990 or my Drake Twins!)
>
> Thanks for all your help guys!
>
> 73,
> Kerry, WD5ABC
>
>

10932. Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 17:46:09 UTC
From: scott
Topic: 10922 Message: 10932

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> Don't worry about it as long as it tunes properly. Component
variation
> (but still within spec) can cause it. On 80m you are switching in a
> couple of big caps..
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@>
wrote:
> >
> > Hi to the group. When I tune on 80 meters the plate tune pointer
> > ends up at, or close to the "1.8" mark instead of near the "3.5"
mark
> > after I dip the plate. All other bands are close to their
respective
> > marks. All other readings are as they should be and I can't
figure > > out exactly why this is occuring. Thanks for reading.
Cheers,
> > scott. KG6BRG

This reading was at 3.945. As to the lines, although I studied them
I not sure which one to look at, seems that one skinny line goes all
the way to 21 mhz and the top line has a "hash" mark almost right
after the 3.5 number. I get 130 watts out on 3.945, and 100 watts at
29.400, so I think the tubes are ok (original S2001A's). AS I stated,
the other readings, such as IP and HV, are as the manual states. I
just was curious as to why the plate pointer was pointing at 1.8
mhz., almost straight up. My conclusion was that the skinny line
at the bottom of the scale was intended for 80 meter reference and
was looking for opinions to comfirm my theory. Thanks to the group
for responding and look foward for more thoughts. 73's scott.
kg6brg. PS I will be on 7.248 11 am to 12 pm pacific time today,
participating in the CARS net. If you can hear it, jump in and give
me a call and we can move off freq and qso. Informal and very
friendly net. kg6brg

10933. Re: [TS-520_820_530_830] Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 18:22:17 UTC
From: Graham Ridgeway
Topic: 10922 Message: 10933

>This reading was at 3.945. As to the lines, although I studied them
>I not sure which one to look at, seems that one skinny line goes all
>the way to 21 mhz and the top line has a "hash" mark almost right
>after the 3.5 number. I get 130 watts out on 3.945, and 100 watts at
>29.400, so I think the tubes are ok (original S2001A's). AS I stated,
>the other readings, such as IP and HV, are as the manual states. I
>just was curious as to why the plate pointer was pointing at 1.8
>mhz., almost straight up. My conclusion was that the skinny line
>at the bottom of the scale was intended for 80 meter reference and
>was looking for opinions to comfirm my theory. Thanks to the group
>for responding and look foward for more thoughts. 73's scott.
>kg6brg. PS I will be on 7.248 11 am to 12 pm pacific time today,
>participating in the CARS net. If you can hear it, jump in and give
>me a call and we can move off freq and qso. Informal and very
>friendly net. kg6brg
>
>
On mine [520 and 530] there are multiple lines. the 1.8 line runs from
9o'clock to 2o'clock and is closest to the knob.
the 3.5 line runs from 9o'clock to 12oclock [and has the 7 line in the
10-11 quardant above it]
what might be confusing is that at 10.30 - between the3.5 line and the
1.8 line is the 1.8 'marker'

73 Graham M5AAV

10934. Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-14 19:06:16 UTC
From: n2mu_1
Topic: 10922 Message: 10934

Scott,
Taking the assumption that everything is working properly inside your rig, departure from the central designed location of the plate tune dip is probably caused by a variation in your coax feed point impedance from a 50 ohm load. You may have a reactive component at your frequency of interest, but if you are concerned about abnormal rig tuning operation try loading all bands into a known 50 ohm dummy load and see if the plate dip falls within the marked tuning ranges. I'm betting that your antenna is altering the coax driving point impedance enough to depart from the expected result.

If you don't have a dummy load you can experiment by adding a 1/4 wave section of coax to your coax feed point and see if the plate dip point moves dramatically on 80 meters. If the dip point moves, your coax feed point impedance is suspect. If not, you may infer that there is some component within the rig that has changed and might want to investigate further. - Knob calibration locked incorrectly, tube capacitance different from original new tubes, voltage changes, switched in capacitance in the tank circuit, etc.... There are a multitude of parameters that can alter the dip point, but, if you have full power your probably OK.

What Say

73 Hank N2MU ...-.- ..

--- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@...> wrote:
>
> Hi to the group. When I tune on 80 meters the plate tune pointer
> ends up at, or close to the "1.8" mark instead of near the "3.5" mark
> after I dip the plate. All other bands are close to their respective
> marks. All other readings are as they should be and I can't figure
> out exactly why this is occuring. Thanks for reading. Cheers,
> scott. KG6BRG
>

10935. Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 01:36:45 UTC
From: kerrygeek1
Topic: 10909 Message: 10935

He doesnt' seem to be in any hurry to borrow my HW-101 so maybe I'll leave it for now and work on my Drake Twins, my all-time favorite rig. Well, my current rig (an FT-990 I bought new in '92) is better for contesting and is easy to operate but the Drakes are real classics, from an era before the 820/830. I always thought they were at least as good as the Collins rigs and not as finicky or delicate. The copper plated chassis is pretty cool too. They also kept the shack warm in the winter but uncomfortably hot in the Texas summers!

Maybe I'll get the Drakes going and see if I can talk him into the 101 around xmas if he doesn't have his yet. We took my truck last nite to take the 830 back to its owner and I let him operate my old TS-430 in the truck so I think he's hooked.

73 guys, thanks for your help!
Kerry - just thinking out loud about old rigs...

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Thanks Kerry,
> I hope he gets his 897 and has fun with it.
> I'm sure he'll be happy once he gets anything on the air.
> Have fun resurrecting the HW-101.
> 73,
> Gordon
>
>
>
> > Gordon, I told him about your rig but he's decided to save his pennies
> > and get the Yaesu FT-897 he's been drooling over for a year or so. In
> > the meantime, I have on old Hw-101 I built in '78 I might resurrect
> > for him. I keep offering him my NorCal 40A but he isn't too
> > comfortable with CW yet. I think the biggest thing is he doesn't want
> > to borrow a rig. I don't blame him for that (but I didn't offer to
> > loan him my 990 or my Drake Twins!)
> >
> > Thanks for all your help guys!
> >
> > 73,
> > Kerry, WD5ABC
> >
> >
>

10936. Re: Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 02:02:05 UTC
From: Ellen R
Topic: 10909 Message: 10936

Drake Twins - yep, that's a good setup. I had a T4XC paired with an R4B back in the late 80s & early 90s.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "kerrygeek1" <kmiller01@...> wrote:
>
> He doesnt' seem to be in any hurry to borrow my HW-101 so maybe I'll
> leave it for now and work on my Drake Twins, my all-time favorite rig.
> Well, my current rig (an FT-990 I bought new in '92) is better for
> contesting and is easy to operate but the Drakes are real classics,
> from an era before the 820/830. I always thought they were at least
> as good as the Collins rigs and not as finicky or delicate. The
> copper plated chassis is pretty cool too. They also kept the shack
> warm in the winter but uncomfortably hot in the Texas summers!
>
> Maybe I'll get the Drakes going and see if I can talk him into the 101
> around xmas if he doesn't have his yet. We took my truck last nite to
> take the 830 back to its owner and I let him operate my old TS-430 in
> the truck so I think he's hooked.
>
> 73 guys, thanks for your help!
> Kerry - just thinking out loud about old rigs...
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Thanks Kerry,
> > I hope he gets his 897 and has fun with it.
> > I'm sure he'll be happy once he gets anything on the air.
> > Have fun resurrecting the HW-101.
> > 73,
> > Gordon
> >
> >
> >
> > > Gordon, I told him about your rig but he's decided to save his pennies
> > > and get the Yaesu FT-897 he's been drooling over for a year or

so. In
> > > the meantime, I have on old Hw-101 I built in '78 I might
resurrect
> > > for him. I keep offering him my NorCal 40A but he isn't too
> > > comfortable with CW yet. I think the biggest thing is he
doesn't want
> > > to borrow a rig. I don't blame him for that (but I didn't
offer to
> > > loan him my 990 or my Drake Twins!)
> > >
> > > Thanks for all your help guys!
> > >
> > > 73,
> > > Kerry, WD5ABC
> > >
> > >
> >
>

10937. Re: [TS-520_820_530_830] Update on the sick 830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 02:24:48 UTC
From: John Harp
Topic: 10909 Message: 10937

You may keep it for spare parts or a future project. Good luck. To bad about this one. Gonna need some real TLC.

kerrygeek1 <kmiller01@...> wrote: I appreciate all you guys' help but I think I'm going to tell my
friend to take this rig back. If he's got his heart set on an 830,
we'll find a better one, he's already seen a couple of others for sale.

I did get the audio fixed, it transmits great, has the typical 830
strong audio and sounds great with the Shure 444 mic. But, while I
was playing with the audio, the rx died. I didn't even have the
covers off the rig, so there's no way I did it this time! ;-) The
rx is very weak, I looked around a little and found the t/r relay in
the back was loose. That wasn't the problem, even though it was about
to fall out, but somebody has put in an oddball relay and "modified"
the pins to make them fit by breaking one off and soldering a stiff
piece of wire to it so it would fit in the socket.

This rig has been butchered so many times, I'm afraid it will keep on
making problems for him.

Once the audio started working, I tried the vox, I've got audio but no
vox so apparently the CW break-in problem wasn't the sidetone osc but
a problem with the vox. I haven't chased that one down yet.

This rig apparently spent a lot of its life as a CB and has a lot of
spliced wires and soldered parts with big blobs of solder. If my
friend was a techie and wanted to restore it, maybe it would be
better for him but he wants to get on the air. I don't think this is
going to be the rig for him.

Thanks for all your help, you guys have been great. Maybe while I'm
in the old-radio tinkering mood I'll work on my old Drake twins and
show him how real glow-in-the-dark radios work.

Humm, if we only had an old R-820 to go with this one, it transmits
ok... ;-)

73,
Kerry, WD5ABC
Victoria, TX

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

10938. Re: [TS-520_820_530_830] 6 Meter Transverter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 02:31:01 UTC
From: John Harp
Topic: 10888 Message: 10938

Actually I'm looking for one myself. I've been watching ebay and eham.net. I look anywhere I see ham gear swap on the web. They show up now and again. I noticed they appear once a year on ebay about this time of year. One just went past about two months ago when I was out a job. Now I got cash and can't find it yet. The best material for building the cable is in the manuals. You may want to read that otherr email I returned info on to the other person on TV-502. Some of that may prove interesting to you too. It took me a while to get it all together.

Bill Richarz <billn4dh@...> wrote: John,

I'm interested in a working TV-506 at this time
for my TS-820S. If you can point me toward a source
that would be nice. Or if you know someone who has a
non working one maybe you could help me get it going.

tnx & 73 de Bill, N4DH

--- John Harp <ka3dpw@...> wrote:

> Kenwood made the TV 502 for 2 meters and the
> TV-506 for 6 meters. They were originally built to
> attach to the TS-520. They can easily enough mouint
> to the 820 also.
>
> I'm adapting one of the TV-502 units to TS-830S.
> I'm looking for also get a TV-506 and use that with
> the 830 as well. I've heard of these being attached
> to other Kenwood models also.
>
> james is another person in the group who has
> Kenwood transverters. He uses the 520 for his and he
> also has a 530.
>
> The power out is about 8 watts.
>
> Are you interested in VHF? If so you may want to
> look at the TV-502's on ebay right now.
> I got two of them without cables and manual. I paid
> 80 and 50. But I can get them going too. If you
> don't know much of these units you may want to
> conder the higher cost of a complete unit.
> Bill Richarz <billn4dh@...> wrote:
> Did Kenwood make a 6 meter transverter for
> the
> TS-820S.
> It mentions a 2-meterTV in my owner's manual but

> nothing for 6 meter. If so, how much power does it
> put out?
>
> tnx & 73 de Bill, N4DH
>
>

> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail
> beta.
> http://new.mail.yahoo.com
>
>
>
>
>
> ---
> Everyone is raving about the all-new Yahoo! Mail
> beta.
>
> [Non-text portions of this message have been
> removed]
>
>

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

10939. Slightly OT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 05:03:05 UTC
From: Max Harelik
Topic: 10939 Message: 10939

I recently purchased a Cushman CE-5 that needs some maintenance. Does any one know of a reflector that focuses on radio amateur test equipment? Thanks.

73,
Max, K5OVW

10940. Re: [TS-520_820_530_830] Off Topic Test Equipment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 09:05:43 UTC
From: n9wb
Topic: 10919 Message: 10940

Does the counter have a BNC connector ? Find a rubber ducky antenna from anything with a BNC and see if it will pick up enough signal. Walt N9WB
----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 14, 2006 8:29 AM
Subject: [TS-520_820_530_830] Off Topic Test Equipment

I recently bought a non working 80mhz frequency counter at a bargain
price. It is working now after replacing one dried out electrolytic. I
would like to set this up as a digital dislay for the TS-510. Any
suggestions on a home brew probe. I was thinking of simply a piece of
coax wrapped around the transmit coax. This would provide a readout
during the TUNE portion of the tune up or if changing frequencies
within the band simply switch to TUNE. WOuld the counter be overloaded
in the transmit mode. Should I be looking for a spot inside the radio
to monitor the frequency.
thanks
Barry

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/533 - Release Date: 11/13/06

[Non-text portions of this message have been removed]

10941. Re: [TS-520_820_530_830] Slightly OT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 09:39:38 UTC
From: n9wb
Topic: 10939 Message: 10941

If you don't get a reply here, try the Amateur-repairs Yahoo group.
Walt N9WB
----- Original Message -----
From: Max Harelik
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 15, 2006 12:03 AM
Subject: [TS-520_820_530_830] Slightly OT

I recently purchased a Cushman CE-5 that needs some maintenance. Does
any one know of a reflector that focuses on radio amateur test equipment?
Thanks.

73,
Max, K5OVW

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/533 - Release Date: 11/13/06

[Non-text portions of this message have been removed]

10942. Re: Off Topic Test Equipment

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 12:53:27 UTC
From: digs4ruff
Topic: 10919 Message: 10942

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Does the counter have a BNC connector ? Find a rubber ducky antenna from anything with a BNC and see if it will pick up enough signal.
Walt N9WB

Walt

Will try this tonight. Thanks very much.
Barry

10943. Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 13:20:13 UTC
From: scott
Topic: 10922 Message: 10943

--- In TS-520_820_530_830@yahoogroups.com, "n2mu_1" <hmlong@...>
wrote:
>
> Scott,
> Taking the assumption that everything is working properly inside
your
> rig, departure from the central designed location of the plate tune
> dip is probably caused by a variation in your coax feed point
> impedance from a 50 ohm load. You may have a reactive component at
> your frequency of interest, but if you are concerned about abnormal
> rig tuning operation try loading all bands into a known 50 ohm
dummy
> load and see if the plate dip falls within the marked tuning
ranges.
> I'm betting that your antenna is altering the coax driving point
> impedance enough to depart from the expected result.
>
> If you don't have a dummy load you can experiment by adding a 1/4
> wave section of coax to your coax feed point and see if the plate
dip
> point moves dramatically on 80 meters. If the dip point moves,
your
> coax feed point impedance is suspect. If not, you may infer that
> there is some component within the rig that has changed and might
> want to investigate further. - Knob calibration locked
incorrectly,
> tube capacitance different from original new tubes, voltage
changes,
> switched in capacitance in the tank circuit, etc.... There are a
> multitude of parameters that can alter the dip point, but, if you
> have full power your probably OK.
>
> What Say
>
> 73 Hank N2MU ...-.- ..
>
>Thanks to all who responded. Hank, I should of stated, all
measurements were into a dummy load and I do have full power, about
130 watts on 80. Perhaps it's just the "nature of the beast".
Cheers, scott. kg6brg
>
> --- In TS-520_820_530_830@yahoogroups.com, "scott" <swduncan57@>
> wrote:
> >
> > Hi to the group. When I tune on 80 meters the plate tune pointer

> > ends up at, or close to the "1.8" mark instead of near the "3.5"
> mark
> > after I dip the plate. All other bands are close to their
> respective
> > marks. All other readings are as they should be and I can't
figure
> > out exactly why this is occuring. Thanks for reading. Cheers,
> > scott. KG6BRG
> >
>

10944. Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 13:37:20 UTC
From: scott
Topic: 10922 Message: 10944

--- In TS-520_820_530_830@yahoogroups.com, Graham Ridgeway
<m5aav@...> wrote:
> On mine [520 and 530] there are multiple lines. the 1.8 line runs
from
> 9o'clock to 2o'clock and is closest to the knob.
> the 3.5 line runs from 9o'clock to 12oclock [and has the 7 line in
the
> 10-11 quardant above it]
> what might be confusing is that at 10.30 - between the3.5 line and
the
> 1.8 line is the 1.8 'marker'
>
>
> 73 Graham M5AAV

Thanks Graham, Studing more with a magnifier, I think I understand the lines and what they relate to. The 3.5 line does indeed extend to the 12 o'clock position. The 1.8 line, is the inside skinny line and extends to about the 2 o'clock point. The 7 position is seperate from the other lines (I did not see it without my magnifier). The 3.5 tune was the only one that seemed out of bounds, but now I see it was in bounds. Thanks again to all and to Graham for his imput.
scott. kg6brg.

10945. Re: [TS-520_820_530_830] Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 14:27:05 UTC
From: n9wb
Topic: 10922 Message: 10945

Sounds to me like you have a fine TS-520. Hope to hear you on some time. We have a Yahoo Group called KenwoodQSO. We post that we are going to be on and try to contact each other with our Kenwoods. Please feel free to join!

Vy 73, Walt N9WB

----- Original Message -----
From: scott
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 15, 2006 8:37 AM
Subject: [TS-520_820_530_830] Re: TS-520S question

--- In TS-520_820_530_830@yahoogroups.com, Graham Ridgeway
<m5aav@...> wrote:
> On mine [520 and 530] there are multiple lines. the 1.8 line runs
from
> 9o'clock to 2o'clock and is closest to the knob.
> the 3.5 line runs from 9o'clock to 12oclock [and has the 7 line in
the
> 10-11 quardant above it]
> what might be confusing is that at 10.30 - between the3.5 line and
the
> 1.8 line is the 1.8 'marker'
>
>
> 73 Graham M5AAV

Thanks Graham, Studing more with a magnifier, I think I understand
the lines and what they relate to. The 3.5 line does indeed extend
to the 12 o'clock position. The 1.8 line, is the inside skinny line
and extends to about the 2 o'clock point. The 7 position is seperate
from the other lines (I did not see it without my magnifier). The
3.5 tune was the only one that seemed out of bounds, but now I see it
was in bounds. Thanks again to all and to Graham for his imput.
scott. kg6brg.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/534 - Release Date: 11/14/06

[Non-text portions of this message have been removed]

10946. FOR SALE: TS-830s with 2 CW filters + HEIL HC-4 MIC + EXTRAS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 14:54:43 UTC
From: Sotiris Katsimaglis
Topic: 10946 Message: 10946

Hi everybody, I am selling a TS-830s (GOLD edition).
The rig is in perfect condition, with new tubes installed and 2 pairs of 6146W as spares.
It has both 500 Hz CW filters (for 8.83 & 455 IFs), that are modified to work on SSB also using the FIX button. This modification is very useful in AFSK modes (RTTY, PSK31 etc).
The set includes also the original Kenwood hand mic, Schuko 220VAC original power cable, a Heil HC-4 element (pulled from a working HEIL PRO headset), original owner's manual, copy of service manual, 4 spare 6146W tubes in very good condition and a spare 12BYA7 driver tube.
Due to the shipping weight (aprox. 22-25 Kgr), I would like to sell it within Europe. Estimated shipping cost is aprox. 100-125 Euros using 5 days delivery service with couriers (i.e. TNT). You can use your own courier service to collect, if you can obtain lower shipping charges, or to collect youself. Pictures are available on request.
I have a 100% positive profile in ebay using my call.
I am selling it because I have switched to the smaller TS-480SAT.
I am asking 500 euros plus SHIPPING.
All questions are welcomed at sv1bdo (at) hotmail.com
73, Sotiris SV1BDO

10947. Re: [TS-520_820_530_830] Slightly OT

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 15:31:55 UTC
From: Max Harelik
Topic: 10939 Message: 10947

Thanks for the lead, Walt. I'll check there.

73,
Max, K5OVW

n9wb wrote:

> If you don't get a reply here, try the Amateur-repairs Yahoo group.
> Walt N9WB
>

10948. Re: [TS-520_820_530_830] Re: TS-520S question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-15 18:18:36 UTC
From: Graham Ridgeway
Topic: 10922 Message: 10948

>
>Thanks Graham, Studing more with a magnifier, I think I understand
>the lines and what they relate to. The 3.5 line does indeed extend
>to the 12 o'clock position. The 1.8 line, is the inside skinny line
>and extends to about the 2 o'clock point. The 7 position is seperate
>from the other lines (I did not see it without my magnifier). The
>3.5 tune was the only one that seemed out of bounds, but now I see it
>was in bounds. Thanks again to all and to Graham for his imput.
>scott. kg6brg.
>
>

Jolly good show !

MInd you - on my 530 [I assume all] the 18/14 line 'overlaps' with a zig-zag. I've never really bothered whether the pointer is within the paint - I tune and go <smile>

Anyone who has worked me on SSB from home [ie: not /P] will have heard/worked either the 520 [1999 - 2004] and within the last two years, more likely the 530.

Since the beginning of November this year - that also applies to PSK or RTTY QSO's

73 Graham M5AAV

10949. fan oil

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 00:00:51 UTC
From: W8JV
Topic: 10949 Message: 10949

Recently somebody recommended using Labelle 101 oil to lube rig fans. I went to the biggest hobby shop in this area and was told in no uncertain terms to NEVER use Labelle 101 oil on any device that may contain plastic parts. In the long term formula 101 has slnvents that will destroy plastic. I was advised to use either Labelle 107 (medium weight) or Labelle 108 (light oil) since both of these are formulated to be "PLASTIC COMPATIBLE". His warning was that no matter what type of oil you use be sure it is PLASYIC COMPATIBLE or ant plastic parts in the unit will be compromised. The cost of 108 is the same as 101.

10950. TS-820S Transmit Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 04:18:45 UTC
From: Stephen Davis
Topic: 10950 Message: 10950

Hello All,

I picked up a Kenwood TS-820S a couple of weeks ago and was told that it would not transmit. I finally had a chance this evening to take a look at it. I fired it up, hooked it to a dummy load and let it warm up. After about 5 minutes, I went through the tune-up procedure and sure enough, no output. The meter showed I did have 60ma of bias and about 850 volts HV. I unplugged it, took the covers off and had a look. First thing I noticed was that the cathode and screen resistors looked new. Visual inspection did not turn up any obvious problems. Next I took a look at the transmit relay and it looked okay. I then plugged in the power cord, and turned the radio on. Heaters on all three tubes were glowing. I put the function switch into tune mode and flipped the xmit switch and observed that the transmitter relay was opening and closing as I went from receive to transmit and back again. I then decided to go through the tune-up procedure again. I put the mode switch to CW and the xmit/receive switch to xmit. I got distracted for a couple of seconds and turned away from the radio. As I turned back towards the radio, I heard three distinct "pops" and saw three blue flashes come from the xmit board. After coming back down from the ceiling (it really startled me!!) I unplugged the radio and took a look. R3 (10 ohm, 1 watt) had pits in it were little pieces had apparently been blown out of it! R2, R5, and R6 looked okay. I plan to replace all four of these (need to make a trip to Radio Shack tomorrow).

But, before I replace the resistors, I need help in figuring out what is causing the resistor(s) to blow. I am thinking a bad final tube, but would appreciate any thoughts the group might have on this or any troubleshooting tips.

Thanks,

Steve K7QHU

[Non-text portions of this message have been removed]

10951. TS-520s repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 06:05:03 UTC
From: markswoodcrafts
Topic: 10951 Message: 10951

I am looking for a person who does repair work on the 520s. Anyone
have a recommendation?

Thank-you.
Mark KØITC

10952. Re: [TS-520_820_530_830] fan oil

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 09:53:55 UTC
From: n9wb
Topic: 10949 Message: 10952

I use the mobile one that I put in my car. Walt N9WB
----- Original Message -----
From: W8JV
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 15, 2006 7:00 PM
Subject: [TS-520_820_530_830] fan oil

Recently somebody recommended using Labelle 101 oil to lube rig fans.
I went to the biggest hobby shop in this area and was told in no
uncertain terms to NEVER use Labelle 101 oil on any device that may
contain plastic parts. In the long term formula 101 has slnvents that
will destroy plastic. I was advised to use either Labelle 107 (medium
weight) or Labelle 108 (light oil) since both of these are formulated
to be "PLASTIC COMPATIBLE". His warning was that no matter what type
of oil you use be sure it is PLASYIC COMPATIBLE or ant plastic parts in
the unit will be compromised. The cost of 108 is the same as 101.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/534 - Release Date: 11/14/06

[Non-text portions of this message have been removed]

10953. Re: [TS-520_820_530_830] TS-820S Transmit Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 10:33:06 UTC
From: n9wb
Topic: 10950 Message: 10953

A final tube probably shorted. replace these resistors with 1 watt resistors as were the originals. These blew when the finals shorted and saved you a lot of grief.
Once you get these replaced and get new finals, your next problem is to get transmit. Once you are in a situation where you can get 60 ma of idle current, the next problem is to see why you are not getting any drive. Be sure that any switches on the rear are in the proper location. Some 520 rigs had switches for transverters.

Next step is to see if you get any ALC meter indication when peaking the drive control on CW. Be sure that the carrier control is fully up.

Let us know when you get this far and we will take you from here. Also tell us if you have a scope.

Vy 73, Walt N9WB

and saved you a lot of grief.
----- Original Message -----
From: Stephen Davis
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 15, 2006 11:18 PM
Subject: [TS-520_820_530_830] TS-820S Transmit Problem

Hello All,

I picked up a Kenwood TS-820S a couple of weeks ago and was told that it would not transmit. I finally had a chance this evening to take a look at it. I fired it up, hooked it to a dummy load and let it warm up. After about 5 minutes, I went through the tune-up procedure and sure enough, no output. The meter showed I did have 60ma of bias and about 850 volts HV. I unplugged it, took the covers off and had a look. First thing I noticed was that the cathode and screen resistors looked new. Visual inspection did not turn up any obvious problems. Next I took a look at the transmit relay and it looked okay. I then plugged in the power cord, and turned the radio on. Heaters on all three tubes were glowing. I put the function switch into tune mode and flipped the xmit switch and observed that the transmitter relay was opening and closing as I went from receive to transmit and back again. I then decided to go through the tune-up procedure again. I put the mode switch to CW and the xmit/receive switch to xmit. I got distracted for a couple of seconds and turned away from the radio. As I turned back towards the radio, I heard three distinct "pops" and saw three blue flashes come from the xmit board. After coming back down from the ceiling (it really startled me!!) I unplugged the radio and took a look. R3 (10 ohm, 1 watt) had pits in it were little pieces had apparently been blown out of it! R2, R5, and R6 looked okay. I plan to replace all four of these (need to make a trip to Radio Shack tomorrow).

But, before I replace the resistors, I need help in figuring out what is causing the resistor(s) to blow. I am thinking a bad final tube, but would appreciate any thoughts the group might have on this or any troubleshooting tips.

Thanks,

Steve K7QHU

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/534 - Release Date: 11/14/06

[Non-text portions of this message have been removed]

10954. Re: [TS-520_820_530_830] fan oil

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 14:55:14 UTC
From: Graham Ridgeway
Topic: 10949 Message: 10954

On Thu, 16 Nov 2006 04:53:55 -0500, you wrote:

>I use the mobile one that I put in my car. Walt N9WB
> ----- Original Message -----
> From: W8JV
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 15, 2006 7:00 PM
> Subject: [TS-520_820_530_830] fan oil
>
>
> Recently somebody recommended using Labelle 101 oil to lube rig fans.
> I went to the biggest hobby shop in this area and was told in no
> uncertain terms to NEVER use Labelle 101 oil on any device that may
> contain plastic parts. In the long term formula 101 has slnvents that
> will destroy plastic. I was advised to use either Labelle 107 (medium
> weight) or Labelle 108 (light oil) since both of these are formulated
> to be "PLASTIC COMPATIBLE". His warning was that no matter what type
> of oil you use be sure it is PLASYIC COMPATIBLE or ant plastic parts in
> the unit will be compromised. The cost of 108 is the same as 101.
>

I use 'Singer' sewing machine oil - the same stuff works brilliantly
on model railway loco's and bearings. - i used to nick Mums's when at
home, and have since inherited a 3/4 full bottle. It'll last my
lifetime [it's probably the same bottle i used 40 years ago - Hi !]

Oh yes - works pretty good on sewing machines as well <smile>

73 Graham M5AAV

10955. Can I post 'Wanted' ham equipment adds here?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 15:48:51 UTC
From: Johnne Ables
Topic: 10955 Message: 10955

Hey Mod,

I know I can't post for '4 Sale' ads, but I'm looking for a fairly high power used dummy load and thought maybe a Group member might benefit.

Thanks!

J

73 DE W1YB

10956. RE: [TS-520_820_530_830] Can I post 'Wanted' ham equipment adds here?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 18:13:30 UTC
From: Darwin, Keith
Topic: 10955 Message: 10956

Why no For Sale ads? Is that a list rule?

- Keith N1AS -

-----Original Message-----
... I know I can't post for '4 Sale' ads ...

10957. Re: [TS-520_820_530_830] fan oil

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 22:11:59 UTC
From: SM0WID
Topic: 10949 Message: 10957

Hi

Several years ago there was a oil from Costa Mesa Lubricant Inc called TRI-FLOW
4 U.S. FL. OZ. (118 ml) which is superb for this type of use. A friend of mine bought
it for me when he visit USA. A motorcycle dealer in Chicago (HD I think) strongly recommend
it for this use and I´m very pleased with it. I just wonder is it possibly to
buy it or is it "out of order" ?

de SMØWID

W8JV <w8jv@...> wrote:
Recently somebody recommended using Labelle 101 oil to lube rig fans.
I went to the biggest hobby shop in this area and was told in no
uncertain terms to NEVER use Labelle 101 oil on any device that may
contain plastic parts. In the long term formula 101 has slnvents that
will destroy plastic. I was advised to use either Labelle 107 (medium
weight) or Labelle 108 (light oil) since both of these are formulated
to be "PLASTIC COMPATIBLE". His warning was that no matter what type
of oil you use be sure it is PLASYIC COMPATIBLE or ant plastic parts in
the unit will be compromised. The cost of 108 is the same as 101.

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

10958. Re: TS-520s repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-16 22:41:52 UTC
From: james27613
Topic: 10951 Message: 10958

Hi Mark,

What problem(s) are you having with the radio,
could be an easy fix with a little help from this forum
before you have to ship it out.

73 james

> I am looking for a person who does repair work on the 520s. Anyone
> have a recommendation?
>
> Thank-you.
> Mark KØITC
>

10959. Re: [TS-520_820_530_830] Can I post 'Wanted' ham equipment adds here?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 00:19:20 UTC
From: John Harp
Topic: 10955 Message: 10959

I use the paint can version loaded full of transformer oil. For 50 bucks I can load anything I got into it. To me that's reasonable. But I got a linear too.

Johnne Ables <johnne507@...> wrote: Hey Mod,

I know I can't post for '4 Sale' ads, but I'm looking for a fairly
high power used dummy load and thought maybe a Group member might
benefit.

Thanks!

J

73 DE W1YB

Sponsored Link

Mortgage rates near 39yr lows. $510,000 Mortgage for $1,698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

10960. Re: [TS-520_820_530_830] TS-820S Transmit Problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 00:27:07 UTC
From: John Harp
Topic: 10950 Message: 10960

Stephen, after you replace the resistors with the proper wattage and value, try to to use a different pair of tubes that are known to be good.

Stephen Davis <sdavis@...> wrote: Hello All,

I picked up a Kenwood TS-820S a couple of weeks ago and was told that it would not transmit. I finally had a chance this evening to take a look at it. I fired it up, hooked it to a dummy load and let it warm up. After about 5 minutes, I went through the tune-up procedure and sure enough, no output. The meter showed I did have 60ma of bias and about 850 volts HV. I unplugged it, took the covers off and had a look. First thing I noticed was that the cathode and screen resistors looked new. Visual inspection did not turn up any obvious problems. Next I took a look at the transmit relay and it looked okay. I then plugged in the power cord, and turned the radio on. Heaters on all three tubes were glowing. I put the function switch into tune mode and flipped the xmit switch and observed that the transmitter relay was opening and closing as I went from receive to transmit and back again. I then decided to go through the tune-up procedure again. I put the mode switch to CW and the xmit/receive switch to xmit. I got distracted for a couple of seconds and turned away from the radio. As I turned back towards the radio, I heard three distinct "pops" and saw three blue flashes come from the xmit board. After coming back down from the ceiling (it really startled me!!) I unplugged the radio and took a look. R3 (10 ohm, 1 watt) had pits in it were little pieces had apparently been blown out of it! R2, R5, and R6 looked okay. I plan to replace all four of these (need to make a trip to Radio Shack tomorrow).

But, before I replace the resistors, I need help in figuring out what is causing the resistor(s) to blow. I am thinking a bad final tube, but would appreciate any thoughts the group might have on this or any troubleshooting tips.

Thanks,

Steve K7QHU

[Non-text portions of this message have been removed]

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

10961. RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 00:56:15 UTC
From: ve3tmt
Topic: 10961 Message: 10961

I find I am getting RF back intot eh radio on 20m only. Clean as a whistle on 40m and nothing on 20m into the dummy load. Help please. I know it is a grounding issue, if I grab the mic it lessens. Never done this before. I have disconnected the PC from the rig with no change. Any ideas?

Max VE3TMT

10962. TS-530 Front Phone Jack Part

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 02:15:37 UTC
From: Bill Richarz
Topic: 10962 Message: 10962

Anyone know where I can find the front phone jack for
the TS-530, I think part no. E11-0404-05? Is there a
generic type that I might find at a parts house? Or
anyone got one from a junker?

tnx, N4DH, Bill

Sponsored Link

Compare mortgage rates for today.
Get up to 5 free quotes.
Www2.nextag.com

10963. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 03:20:59 UTC
From: ve3tmt
Topic: 10961 Message: 10963

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> I find I am getting RF back intot eh radio on 20m only. Clean as a
> whistle on 40m and nothing on 20m into the dummy load. Help please. I
> know it is a grounding issue, if I grab the mic it lessens. Never done
> this before. I have disconnected the PC from the rig with no change.
> Any ideas?
>
> Max VE3TMT

Update...

Also coming across the TV in the bedroom on 20m. Definately never happened before. Perhaps something has let go in the antenna or rain has somehow gotten into the traps or the matching box. Antenna is a Cushcraft R7.

Max

10964. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 03:42:19 UTC
From: N6WK
Topic: 10961 Message: 10964

Max,
I had a similar problem a few months ago. Turned out my Coax was
arcing between the center conductor and the Braid in a spot where the
Coax made a sharp bend. I replaced the Coax and the Problem was solved.
Antenna was a Cushcraft R-7000. Exact same Symptons you are describing !!

73,
Gorodn'

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "ve3tmt" <ve3tmt@...>
> wrote:
> >
> > I find I am getting RF back intot eh radio on 20m only. Clean as a
> > whistle on 40m and nothing on 20m into the dummy load. Help please. I
> > know it is a grounding issue, if I grab the mic it lessens. Never done
> > this before. I have disconnected the PC from the rig with no change.
> > Any ideas?
> >
> > Max VE3TMT
>
> Update...
>
> Also coming across the TV in the bedroom on 20m. Definately never
> happened before. Perhaps something has let go in the antenna or rain
> has somehow gotten into the traps or the matching box. Antenna is a
> Cushcraft R7.
>
> Max
>
>

[Non-text portions of this message have been removed]

10965. Re: [TS-520_820_530_830] Re: TS-520s repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 05:49:10 UTC
From: Mark Rogers
Topic: 10951 Message: 10965

Really a couple of problems - it really needs to have
someone look at it.

Mark

--- james27613 <james27613@...> wrote:

> Hi Mark,
>
> What problem(s) are you having with the radio,
> could be an easy fix with a little help from this
> forum
> before you have to ship it out.
>
> 73 james
>
> > I am looking for a person who does repair work on
> the 520s. Anyone
> > have a recommendation?
> >
> > Thank-you.
> > Mark K?ITC
> >
>
>
>
>

Sponsored Link

Mortgage rates near 39yr lows.
$310k for $999/mo. Calculate new payment!
www.LowerMyBills.com/lre

10966. Re: [TS-520_820_530_830] Re: TS-520s repair

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 06:36:38 UTC
From: Ruben Echevarria
Topic: 10951 Message: 10966

Mark if you describe the problem you'll probably get quite a few people to
come back to you with help and advice and maybe you'll save some bucks
in the process. You'll also wind up with a little more knowledge and few
new friends.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Mark Rogers <markswoodcrafts@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 17, 2006 12:49:10 AM
Subject: Re: [TS-520_820_530_830] Re: TS-520s repair

Really a couple of problems - it really needs to have
someone look at it.

Mark

--- james27613 <james27613@att. net> wrote:

> Hi Mark,
>
> What problem(s) are you having with the radio,
> could be an easy fix with a little help from this
> forum
> before you have to ship it out.
>
> 73 james
>
> > I am looking for a person who does repair work on
> the 520s. Anyone
> > have a recommendation?
> >
> > Thank-you.
> > Mark KØITC
> >
>
>
>
>

---------- --------- --------- --------- --------- --------- -
Sponsored Link

Mortgage rates near 39yr lows.
$310k for $999/mo. Calculate new payment!
www.LowerMyBills. com/lre

[Non-text portions of this message have been removed]

10967. [TS-520_820_530_830] TS-820S Transmit Problem - Update#1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 06:29:37 UTC
From: Stephen Davis
Topic: 10950 Message: 10967

Walt and John,

Thanks for your reply's. I did not get a chance to pick up the resistors today. However, I wanted to make some progress, so I decided to take the tubes from the 820 that we suspected might be shorted and try them in my TS-530. I had check the tubes for shorts after reading Walt's primer in the archives and found no shorts. The finals by the way are the original S2001A's. Anyway, I put them into the TS-530, hooked up the dummy load and powered up. I let the tubes warm up for about 5 minutes. I check the bias and it was a little high, so I adjusted to 60ma. I then went through the tune-up procedure, keeping a wary eye on the rig. The rig tuned up fine and I was getting full output on 40 meters. I spent about ten minutes, using a CW key to send into the dummy load every so often. The tubes seem to be okay. Didn't want to run for too long as I did not want to neutralize them in the 530. So, it seems the problem is not with the finals, which is kind of disappointing because this means there is a more difficult problem to track down. My next step will be to check the tube sockets for any shorts. Any other suggestions would be welcome.

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of John Harp
Sent: Thursday, November 16, 2006 5:27 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S Transmit Problem

Stephen, after you replace the resistors with the proper wattage and value, try to to use a different pair of tubes that are known to be good.

Stephen Davis <sdavis@beachnet. <mailto:sdavis%40beachnet.com> com> wrote:
Hello All,

I picked up a Kenwood TS-820S a couple of weeks ago and was told that it would not transmit. I finally had a chance this evening to take a look at it. I fired it up, hooked it to a dummy load and let it warm up. After about 5 minutes, I went through the tune-up procedure and sure enough, no output. The meter showed I did have 60ma of bias and about 850 volts HV. I unplugged it, took the covers off and had a look. First thing I noticed was that the cathode and screen resistors looked new. Visual inspection did not turn up any obvious problems. Next I took a look at the transmit relay and it looked okay. I then plugged in the power cord, and turned the radio on. Heaters on all three tubes were glowing. I put the function switch into

tune mode and flipped the xmit switch and observed that the transmitter relay was opening and closing as I went from receive to transmit and back again. I then decided to go through the tune-up procedure again. I put the mode switch to CW and the xmit/receive switch to xmit. I got distracted for a couple of seconds and turned away from the radio. As I turned back towards the radio, I heard three distinct "pops" and saw three blue flashes come from the xmit board. After coming back down from the ceiling (it really startled me!!) I unplugged the radio and took a look. R3 (10 ohm, 1 watt) had pits in it were little pieces had apparently been blown out of it! R2, R5, and R6 looked okay. I plan to replace all four of these (need to make a trip to Radio Shack tomorrow).

But, before I replace the resistors, I need help in figuring out what is causing the resistor(s) to blow. I am thinking a bad final tube, but would appreciate any thoughts the group might have on this or any troubleshooting tips.

Thanks,

Steve K7QHU

[Non-text portions of this message have been removed]

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10968. Re: [TS-520_820_530_830] RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 08:31:01 UTC
From: n9wb
Topic: 10961 Message: 10968

Which mike is this ?
Walt N9WB
----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 16, 2006 7:56 PM
Subject: [TS-520_820_530_830] RF on 20m only ???

I find I am getting RF back intot eh radio on 20m only. Clean as a
whistle on 40m and nothing on 20m into the dummy load. Help please. I
know it is a grounding issue, if I grab the mic it lessens. Never done
this before. I have disconnected the PC from the rig with no change.
Any ideas?

Max VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.5/534 - Release Date: 11/14/06

[Non-text portions of this message have been removed]

10969. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 11:47:59 UTC
From: ve3tmt
Topic: 10961 Message: 10969

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Which mike is this ?
> Walt N9WB

On digital modes, it doesn't do it with either antenna. When on SSB it only does it on the vertical. When I switch to my dipole it is fine. So that leads to me to think it is either the coax to the vertical or the vertical itself. We have had heavy rains here for a few days now, perhaps some rain as got into the mathcing box at the base of the antenna.

Max

10970. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 12:27:34 UTC
From: n9wb
Topic: 10961 Message: 10970

Max:
Is this happening with your Electret microphone?
Walt
----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 17, 2006 6:47 AM
Subject: [TS-520_820_530_830] Re: RF on 20m only ???

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Which mike is this ?
> Walt N9WB

On digital modes, it doesn't do it with either antenna. When on SSB it
only does it on the vertical. When I switch to my dipole it is fine.
So that leads to me to think it is either the coax to the vertical or
the vertical itself. We have had heavy rains here for a few days now,
perhaps some rain as got into the mathcing box at the base of the antenna.

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.6/536 - Release Date: 11/16/06

[Non-text portions of this message have been removed]

10971. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 12:53:39 UTC
From: ve3tmt
Topic: 10961 Message: 10971

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> Is this happening with your Electret microphone?
> Walt

Yes it is Walt. I don't have any other mic to test, but it does not do it on digital modes. I moved some equipment around this morning and noted the following, and don't laugh...

When I pull the desk out from the wall, it goes away almost 100%.

If I unplug the wall wart to my rigblaster, it gets worse.

I also have an extension cord that runs through the wall under the desk into the furnace room where my power supply used to sit. right now it is not plugged into anything but is still plugged into the AC socket. If I unplug it from the wall socket it gets worse, yest it has no connection to the setup at all. Which leads me to think it is a grounding problem. But why would it not do it on my other antenna?

Max

10972. Re: [TS-520_820_530_830] TS-530 Front Phone Jack Part

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 14:51:04 UTC
From: Rick KC0HH
Topic: 10962 Message: 10972

Bill,

There is a guy on www.qth.com parting out an 830S. The front phone jack is the same as your 530S... Here is the ad info.

MISC - ts830 parts
I HAVE ALMOST COMPLETE 830 TOOK APART ALL EXCEPT IF BOARD.
IF YOU NEED ANY PARTS TO GET ONE GOING LET ME KNOW I MAY HAVE WHAT YOU LOOKING FOR.
NO CASE OR IF BOARD HAVE DEF. IF BOARD FOR PARTS ONLY
THANKS
CURTIS
Listing #563572 - Submitted on 11/14/06 by Callsign K4UDR
73' Rick KC0HH

Bill Richarz <billn4dh@...> wrote:
Anyone know where I can find the front phone jack for
the TS-530, I think part no. E11-0404-05? Is there a
generic type that I might find at a parts house? Or
anyone got one from a junker?

tnx, N4DH, Bill

_____
Sponsored Link

Compare mortgage rates for today.
Get up to 5 free quotes.
Www2.nextag.com

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

10973. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 14:46:01 UTC
From: Rick KC0HH
Topic: 10961 Message: 10973

HI Max,

Your shack must not be in the RF envelope with the horizontal antenna but is with the vertical. I had the same problem with a microphone. ..The RFI would also almost go away when I would touch the mic. Turned out to be a grounding problem with the microphone plug itself .. I fixed my problem when I grounded the mic plug... I clipped 1.5" piece of wire off a 1/4 watt resistor. Open the mic plug up and solder one end of this wire to pin 4 along with the mic shield wire. Run the wire out the back of the plug when you assemble it and loop it under one of the screws to the clamp portion of the mic plug. RFI went away. Mine was also on 20 meters by the way. Which antenna were you using last weekend when we spoke? I sure didn't detect any RF in your signal.

Rick KC0HH

ve3tmt <ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> Is this happening with your Electret microphone?
> Walt

Yes it is Walt. I don't have any other mic to test, but it does not do it on digital modes. I moved some equipment around this morning and noted the following, and don't laugh...

When I pull the desk out from the wall, it goes away almost 100%.

If I unplug the wall wart to my rigblaster, it gets worse.

I also have an extension cord that runs through the wall under the desk into the furnace room where my power supply used to sit. right now it is not plugged into anything but is still plugged into the AC socket. If I unplug it from the wall socket it gets worse, yest it has no connection to the setup at all. Which leads me to think it is a grounding problem. But why would it not do it on my other antenna?

Max

73' Rick KC0HH
Lamar, Colorado

Sponsored Link

Mortgage rates near 39yr lows. $510,000 Mortgage for $1,698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

10974. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 15:12:58 UTC
From: ve3tmt
Topic: 10961 Message: 10974

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> HI Max,
>
> Your shack must not be in the RF envelope with the horizontal antenna but is with the vertical. I had the same problem with a microphone. ..The RFI would also almost go away when I would touch the mic. Turned out to be a grounding problem with the microphone plug itself .. I fixed my problem when I grounded the mic plug... I clipped 1.5" piece of wire off a 1/4 watt resistor. Open the mic plug up and solder one end of this wire to pin 4 along with the mic shield wire. Run the wire out the back of the plug when you assemble it and loop it under one of the screws to the clamp portion of the mic plug. RFI went away. Mine was also on 20 meters by the way. Which antenna were you using last weekend when we spoke? I sure didn't detect any RF in your signal.
>
> Rick KC0HH

Hi Rick,

I was on the vertical that is causing me the grief now. Two days ago I had no trouble, then just last night it started. I thought it must be because of the rain. The XLR plug on the mic itself has three wires, audio hot, audio ground (braid) and black ground. I ran a ground wire from the black wire to the mic plug itself. If I grab the mic the RF goes away as well.

I am going to tear the station apart tonight and put it back together on piece at a time and run tests along the way. I don't understand why it would start all of a sudden. What good does it do by grounding the mic plugs themselves? My mic plugs into the RigBlaster and then nto the radio.

I guess the only thing is to start over.

Max

10975. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 15:23:35 UTC
From: Ellen R
Topic: 10961 Message: 10975

Hi Max,

If you've never had this probelm with the rig before on 20m, I'd ahve to agree with Gordon - your coax has some problems. If this is the first time you've used the rig on 20m SSB, then it might be a characteristic of the rig. As an apartment dweller, I've dealt with RF feedback issues off and on for years. Unbalanced antennas (such as verticals, and endfeds) are notorious for giving RF feedback problems. The thing is, they won't give you RF feedback on every single freq. One thing that can help, is to put a current choke (basically several windings coax, with, or without ferrites snapped onto the windings)in the feedline, next to the TS-830S.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Max,
> I had a similar problem a few months ago. Turned out my Coax was
> arcing between the center conductor and the Braid in a spot where
the
> Coax made a sharp bend. I replaced the Coax and the Problem was
solved.
> Antenna was a Cushcraft R-7000. Exact same Symptons you are
describing !!
>
> 73,
> Gorodn'
>
>
> ve3tmt wrote:
>
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "ve3tmt" <ve3tmt@>
> > wrote:
> > >
> > > I find I am getting RF back intot eh radio on 20m only. Clean
as a
> > > whistle on 40m and nothing on 20m into the dummy load. Help
please. I
> > > know it is a grounding issue, if I grab the mic it lessens.
Never done
> > > this before. I have disconnected the PC from the rig with no
change.
> > > Any ideas?

> > >
> > > Max VE3TMT
> >
> > Update...
> >
> > Also coming across the TV in the bedroom on 20m. Definately never
> > happened before. Perhaps something has let go in the antenna or
rain
> > has somehow gotten into the traps or the matching box. Antenna is
a
> > Cushcraft R7.
> >
> > Max
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

10976. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 16:43:00 UTC
From: ve3tmt
Topic: 10961 Message: 10976

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:
>
> Hi Max,
>
> If you've never had this probelm with the rig before on 20m, I'd ahve
> to agree with Gordon - your coax has some problems. If this is the
> first time you've used the rig on 20m SSB, then it might be a
> characteristic of the rig. As an apartment dweller, I've dealt with
> RF feedback issues off and on for years. Unbalanced antennas (such
> as verticals, and endfeds) are notorious for giving RF feedback
> problems. The thing is, they won't give you RF feedback on every
> single freq. One thing that can help, is to put a current choke
> (basically several windings coax, with, or without ferrites snapped
> onto the windings)in the feedline, next to the TS-830S.
>
> 73,
> Ellen - AF9J

Hi Ellen,

I was talking to Rick, KC0HH, on the weekend on 20m on the same rig with the same antenna and it was working great. I just noticed last night the problems. We have had some heavy rain the last few days and first thought maybe the balun box on the bottom of the antenna was cracked. It has stopped raining today so I will try it tonight. I also plan on taking a look at the antenna itself to make sure nothing has cracked. Can't really see how it would. I am going to take the station apart completely and reassemble it, eliminating any cables I don't need.

Can anyone tell me if the cables connectors themselves should be shorted to the braid or does it make a difference?

Max

10977. TS 520s digimodes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 16:45:59 UTC
From: holopainen_tommi
Topic: 10977 Message: 10977

Hello
How wiring or modif TS 520S that CW filter can use in SSB?

-Tommi oh7jjt-

10978. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 17:33:48 UTC
From: ve3tmt
Topic: 10961 Message: 10978

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:

The RFI would also almost go away when I would touch the mic. Turned out to be a grounding problem with the microphone plug itself .. I fixed my problem when I grounded the mic plug.

Rick,

This got me thinking..if I am feeding the electret element and audio through only the hot wire and ground, do I really need this third wire (the black one) in the cord at all? Perhaps if it is hooked up at only one end it may be inducing a ground loop. I should try disconnecting from the connectors at both ends and leave it unattached in the cord.

Hopefully I will have some time to work on it tonight. I can't see the antenna at fault as it is only happening on one band and only when the mic is used. As mentioned before feeding PSK signals into the rig causes no problems whatsoever.

Max

10979. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 15:49:41 UTC
From: Rick KC0HH
Topic: 10961 Message: 10979

Hi Max,

I wonder if you have a ground loop where all your equipment is not at the same ground potential and is exacerbated by all the rain. Is everything in your shack connected to the same earth ground?

In my case the RFI problem would lessen if I touched the mic itself and completely go away if I covered the mic plug with my hand. I can only guess the mic shield was at different ground potential than the chassis ground and by connecting the mic shield to the plug itself fixed it....Had me scratching my head for a while.
I think by unplugging your wall wart to the rigblaster you are removing the shield ground to the case of the rigblaster and RF is getting in.

Rick KC0HH

ve3tmt <ve3tmt@...> wrote:
Hi Rick,

I was on the vertical that is causing me the grief now. Two days ago I had no trouble, then just last night it started. I thought it must be because of the rain. The XLR plug on the mic itself has three wires, audio hot, audio ground (braid) and black ground. I ran a ground wire from the black wire to the mic plug itself. If I grab the mic the RF goes away as well.

I am going to tear the station apart tonight and put it back together on piece at a time and run tests along the way. I don't understand why it would start all of a sudden. What good does it do by grounding the mic plugs themselves? My mic plugs into the RigBlaster and then nto the radio.

I guess the only thing is to start over.

Max

Sponsored Link

Mortgage rates near 39yr lows. $310,000 Mortgage for $999/mo - Calculate new house payment

[Non-text portions of this message have been removed]

10980. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 17:18:57 UTC
From: Bill Scurlock
Topic: 10961 Message: 10980

Max.

I have been following along with most of you description of the RFI/Grounding problem you are experiencing. Without any knowledge of your physical circumstances in the house, equipment arrangement, feedlines and antennas, I would make one general recommendation. If you don't already have it, install a good single point bonding system for all your equipment at your operating equipment location. You should use something like a small aluminum or copper plate mounted in a convenient location at the rear of your equipment, and then run separate bonding conductors from each piece of equipment to the aluminum/copper common bonding point. An insulated braid or fairly large wire (#12 or larger). This takes care of bonding all the equipment together from a safety viewpoint. If you have coax feedlines that you do not disconnect when not in use, then the outside shields of these coax feedlines should also be bonded to the common bonding point just like the equipment. For example, all my coax feedlines come into coax switches which disconnect the center conductors when not in use, and the metal housing of the switches is bonded to my common bonding point. I also ground the center conductor of the main coax feeder going to my equipment with a separate coax switch located on the equipment side of my antenna selection switch. If you have an actual grounding conductor coming to your shack, it should be connected to the common bonding plate. In my case, my shack is located in an interior room inside the house with no short distance, good access to a good ground. I use the shield of one of my 7/8" hardlines going out to my tower as a kind of grounding conductor (not optimum, just about all I can do) that connects to the ground system at the base of my tower. About 4 years ago my tower took a direct lightning strike that blew half of my Ringo Ranger antenna off the top of the tower. The only damage to my station was the transistor preamp on my 450MHz repeater - repair $25.

My view of station bonding and grounding is like making sure the lights work when I connect a trailer to my truck. If you don't get a good bond/ground between the trailer and the towing vehicle, you can go crazy trying to trouble-shoot why the lights don't work.

If you have already taken care of all this signal/safety grounding, I'm sorry to have wasted your time. But, having a good grounding system will help you eliminate many weird problems and let you focus on real problems that you need to find in your equipment and interconnecting wiring. Your real problem could well be the antenna or it's feedline condition (or length).

Good luck, and have fun Max.

73, Bill, K5GCW
----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 17, 2006 9:12 AM
Subject: [TS-520_820_530_830] Re: RF on 20m only ???

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:
>
> HI Max,
>
> Your shack must not be in the RF envelope with the horizontal antenna but is with the vertical. I had the same problem with a microphone. ..The RFI would also almost go away when I would touch the mic. Turned out to be a grounding problem with the microphone plug itself .. I fixed my problem when I grounded the mic plug... I clipped 1.5" piece of wire off a 1/4 watt resistor. Open the mic plug up and solder one end of this wire to pin 4 along with the mic shield wire. Run the wire out the back of the plug when you assemble it and loop it under one of the screws to the clamp portion of the mic plug. RFI went away. Mine was also on 20 meters by the way. Which antenna were you using last weekend when we spoke? I sure didn't detect any RF in your signal.
>
> Rick KC0HH

Hi Rick,

I was on the vertical that is causing me the grief now. Two days ago I had no trouble, then just last night it started. I thought it must be because of the rain. The XLR plug on the mic itself has three wires, audio hot, audio ground (braid) and black ground. I ran a ground wire from the black wire to the mic plug itself. If I grab the mic the RF goes away as well.

I am going to tear the station apart tonight and put it back together on piece at a time and run tests along the way. I don't understand why it would start all of a sudden. What good does it do by grounding the mic plugs themselves? My mic plugs into the RigBlaster and then nto the radio.

I guess the only thing is to start over.

Max

[Non-text portions of this message have been removed]

10981. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 16:36:49 UTC
From: craig harris
Topic: 10961 Message: 10981

MAX
the best way to get rid of stray rf is to find the
offending freq. and find it's actual length get a
piece of rg-58 short both conductors on one end
multiply the voloicty factor like .66 times the actual
length cut it to that length and make sure the
conductors on the other end are not touching.this is
almost a sure fire
cure.
--- Ellen R <ellenjoanne2003@...> wrote:

> Hi Max,
>
> If you've never had this probelm with the rig before
> on 20m, I'd ahve
> to agree with Gordon - your coax has some problems.
> If this is the
> first time you've used the rig on 20m SSB, then it
> might be a
> characteristic of the rig. As an apartment dweller,
> I've dealt with
> RF feedback issues off and on for years. Unbalanced
> antennas (such
> as verticals, and endfeds) are notorious for giving
> RF feedback
> problems. The thing is, they won't give you RF
> feedback on every
> single freq. One thing that can help, is to put a
> current choke
> (basically several windings coax, with, or without
> ferrites snapped
> onto the windings)in the feedline, next to the
> TS-830S.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, N6WK
> <n6wk@...> wrote:
> >
> > Max,
> > I had a similar problem a few months ago. Turned
> out my Coax was
> > arcing between the center conductor and the Braid
> in a spot where

> the
> > Coax made a sharp bend. I replaced the Coax and
> the Problem was
> solved.
> > Antenna was a Cushcraft R-7000. Exact same
> Symptons you are
> describing !!
> >
> > 73,
> > Gorodn'
> >
> >
> > ve3tmt wrote:
> >
> > > --- In TS-520_820_530_830@yahoogroups.com
> > > <mailto:TS-520_820_530_830%40yahoogroups.com>,
> "ve3tmt" <ve3tmt@>
> > > wrote:
> > > >
> > > > I find I am getting RF back intot eh radio on
> 20m only. Clean
> as a
> > > > whistle on 40m and nothing on 20m into the
> dummy load. Help
> please. I
> > > > know it is a grounding issue, if I grab the
> mic it lessens.
> Never done
> > > > this before. I have disconnected the PC from
> the rig with no
> change.
> > > > Any ideas?
> > > >
> > > > Max VE3TMT
> > >
> > > Update...
> > >
> > > Also coming across the TV in the bedroom on 20m.
> Definately never
> > > happened before. Perhaps something has let go in
> the antenna or
> rain
> > > has somehow gotten into the traps or the
> matching box. Antenna is
> a
> > > Cushcraft R7.
> > >
> > > Max
> > >
> > >

> >
> >
> >
> > [Non-text portions of this message have been
> removed]
> >
>
>
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 KQ4ZM

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

10982. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 18:14:18 UTC
From: ve3tmt
Topic: 10961 Message: 10982

I appreciate all the comments and suggestions. My only concern is that this has never been a problem for me and nothing in the shack had been changes to cause it to happen. Like it just started happening for no particular reason. But I think what I will do is take everything apart tonight and start over. I will dress every cable correctly and neatly and shorten some up if I have to. I will put in a common ground as suggested and verify the outcome on the air as I progress. Eventually I will find the cause of the problem. I just don't understand why it would happen for now reason. The only thing that could have happened is the rain.

Thanks again for all the help.

Max

10983. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 18:25:53 UTC
From: N6WK
Topic: 10961 Message: 10983

Max,
I have the R-7000 and It was giving me RF problems in the shack.
Mine turned out to be bad Coax that would Only Arc when the power output was above 60 or 70 watts. Below that, It would be fine. I also had my 20/30 meter trap develop an arc thru the inner plastic form that the coil is wound on inside the trap that would make the SWR change as I increased the power. I replaced the trap and the problem was solved. I then took the old trap completely apart and ground out all the Arcing marks on the Coil form and rebuild the form using JB Weld. It now works great again also. How is your SWR on the R-7 as you increase the Power level out?? Is your the R-7 or the R-7000 like mine ?

73,
Gordon
N6WK

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, Rick KC0HH <kc0hh@...>
> wrote:
>
> The RFI would also almost go away when I would touch the mic. Turned
> out to be a grounding problem with the microphone plug itself .. I
> fixed my problem when I grounded the mic plug.
>
> Rick,
>
> This got me thinking..if I am feeding the electret element and audio
> through only the hot wire and ground, do I really need this third wire
> (the black one) in the cord at all? Perhaps if it is hooked up at
> only one end it may be inducing a ground loop. I should try
> disconnecting from the connectors at both ends and leave it unattached
> in the cord.
>
> Hopefully I will have some time to work on it tonight. I can't see the
> antenna at fault as it is only happening on one band and only when the
> mic is used. As mentioned before feeding PSK signals into the rig
> causes no problems whatsoever.
>
> Max
>
>

[Non-text portions of this message have been removed]

10984. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 19:45:34 UTC
From: n9wb
Topic: 10961 Message: 10984

Max:
This is all typical of RF. Be sure that you have a ground on the rig. Tun a wire from the rig to a cold water pipe in the furnace room or if none is available try grounding to the furnace ducts.

Vy 73, Walt N9WB
----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 17, 2006 7:53 AM
Subject: [TS-520_820_530_830] Re: RF on 20m only ???

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Max:
> Is this happening with your Electret microphone?
> Walt

Yes it is Walt. I don't have any other mic to test, but it does not do it on digital modes. I moved some equipment around this morning and noted the following, and don't laugh...

When I pull the desk out from the wall, it goes away almost 100%.

If I unplug the wall wart to my rigblaster, it gets worse.

I also have an extension cord that runs through the wall under the desk into the furnace room where my power supply used to sit. right now it is not plugged into anything but is still plugged into the AC socket. If I unplug it from the wall socket it gets worse, yest it has no connection to the setup at all. Which leads me to think it is a grounding problem. But why would it not do it on my other antenna?

Max

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.6/536 - Release Date: 11/16/06

[Non-text portions of this message have been removed]

10985. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 20:09:27 UTC
From: ve3tmt
Topic: 10961 Message: 10985

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Max,
> I have the R-7000 and It was giving me RF problems in the shack.
> Mine turned out to be bad Coax that would Only Arc when the power
output
> was above 60 or 70 watts. Below that, It would be fine. I also had my
> 20/30 meter trap develop an arc thru the inner plastic form that the
> coil is wound on inside the trap that would make the SWR change as I
> increased the power. I replaced the trap and the problem was solved. I
> then took the old trap completely apart and ground out all the Arcing
> marks on the Coil form and rebuild the form using JB Weld. It now works
> great again also. How is your SWR on the R-7 as you increase the Power
> level out?? Is your the R-7 or the R-7000 like mine ?
>
> 73,
> Gordon
> N6WK
>

Mine is the R7 Gordon. I find the SWR goes up in the rain but most
antennas will. As far the RF is concerned, I may have found the
problem. The rig is grounded to the computer, but the RigBlaster is
between the two in the mic line. I ran a ground wire from the case of
the RigBlaster to the 830 and the RF immediately went away. Hopefully
I have found the problem. I was quickly fiddling with it on my lunch
hour but had to get back to work. My "real" job keeps interfering with
my "dream" job!

Max

10986. Re: TS-530 Front Phone Jack Part

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 21:35:51 UTC
From: james27613
Topic: 10962 Message: 10986

hi bill,

www.kenwoodparts.com

E11-0404-05 SP-180 PHONE JACK $5.76

73 james ke4drn

10987. Re: fan oil (tri flow)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 21:32:50 UTC
From: james27613
Topic: 10949 Message: 10987

hi,

I have a ts-520 project I am working on,
the drive control was siezed up tight,

tried a few drops of the tri flow oil
and let it sit overnight.

the drive control feels like new again.

73 james

10988. Re: [TS-520_820_530_830] Re: fan oil (tri flow)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 23:56:51 UTC
From: John Harp
Topic: 10949 Message: 10988

Did it seem to flush anything out? or did it just lubricate deep like a penetrating oil such as tapping oil?

james27613 <james27613@...> wrote: hi,

I have a ts-520 project I am working on,
the drive control was siezed up tight,

tried a few drops of the tri flow oil
and let it sit overnight.

the drive control feels like new again.

73 james

Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

10989. Re: [TS-520_820_530_830] Re: TS-530 Front Phone Jack Part

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-17 23:58:37 UTC
From: John Harp
Topic: 10962 Message: 10989

The phone patch arrived in good shape. It was awaiting when I came home for lunch.

james27613 <james27613@...> wrote: hi bill,

www.kenwoodparts.com

E11-0404-05 SP-180 PHONE JACK $5.76

73 james ke4drn

Sponsored Link

$200,000 mortgage for $660/mo - 30/15 yr fixed, reduce debt, home equity - Click now for info

[Non-text portions of this message have been removed]

10990. Re: [TS-520_820_530_830] TS-530 Front Phone Jack Part

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 00:01:23 UTC
From: John Harp
Topic: 10962 Message: 10990

You could try East Coast Parts or Pacific Coast Parts. RF Parts also. Those three to start.

Bill Richarz <billn4dh@...> wrote: Anyone know where I can find the front phone jack for the TS-530, I think part no. E11-0404-05? Is there a
generic type that I might find at a parts house? Or
anyone got one from a junker?

tnx, N4DH, Bill

_____
Sponsored Link

Compare mortgage rates for today.
Get up to 5 free quotes.
Www2.nextag.com

Sponsored Link

Mortgage rates as low as 4.625% - $150,000 loan for $579 a month. Intro-*Terms

[Non-text portions of this message have been removed]

10991. TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 00:50:21 UTC
From: n3ihm
Topic: 10991 Message: 10991

I have a ts520 but the rectifier unit is from a ts520s
what I need to know is what can be used for replacement of the
diodes in the rectifier unit
I talked to kenwood but they have no cross ref. for these diodes
anyone have any idea?

diodes are listed as VO8J,VO6E VO3C can't find any info on these
type of diodes

Bret
N3IHM

10992. Re: [TS-520_820_530_830] TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 02:05:50 UTC
From: Ruben Echevarria
Topic: 10991 Message: 10992

Checkout this site: http://www.loadparts.com/Catalog/A/1318.htm

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: n3ihm <bsin@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 17, 2006 7:50:21 PM
Subject: [TS-520_820_530_830] TS520 Rectifier Unit

I have a ts520 but the rectifier unit is from a ts520s
what I need to know is what can be used for replacement of the
diodes in the rectifier unit
I talked to kenwood but they have no cross ref. for these diodes
anyone have any idea?

diodes are listed as VO8J,VO6E VO3C can't find any info on these
type of diodes

Bret
N3IHM

[Non-text portions of this message have been removed]

10993. [TS-520_820_530_830] TS-820S Transmit Problem - Update#2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 03:01:04 UTC
From: Stephen Davis
Topic: 10950 Message: 10993

Hello All,

I have replaced the screen and cathode resistors. Both cathode resistors (R2 and R3) were open. The screen resistors were okay, but replaced them anyway. I have not fired up the rig yet as I am still not sure what caused the resistors to open. As stated in my last update, the tubes checked good when I tried them in my TS-530, so I think that rules out the tubes as the culprit.

In looking at the Final Board circuit diagram, I see a point marked "K" at the edge of the diagram. On the Final Board PC layout, there is no point "K" that I can see. I think "K" stands for cathode. Does anyone know what is on the other side of point "K"? On the large overall schematic, there is no point "K" shown in the final section. Sorry if that is confusing. Here is what I am thinking... One side of R2 and R3 is grounded. It looks like the other side is connected to pins 1,4, and 6 of the finals and to point K. So it does not seem like much can go wrong on the final board itself, except for a shorted tube, which I don't think is the case. So I am thinking the problem must lie beyond point "k", but don't know how to find it on the schematic.

I don't have a lot of experience, so it the above assumption is wrong, incomplete, or way out in left field, please don't hesitate to correct me!! Any help or suggestions appreciated.

Thanks

Steve K7QHU

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Davis
Sent: Thursday, November 16, 2006 11:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] TS-820S Transmit Problem - Update#1

Walt and John,

Thanks for your reply's. I did not get a chance to pick up the resistors today. However, I wanted to make some progress, so I decided to take the tubes from the 820 that we suspected might be shorted and try them in my TS-530. I had check the tubes for shorts after reading Walt's primer in the archives and found no shorts. The finals by the way are the original S2001A's. Anyway, I put them into the TS-530, hooked up the dummy load and powered up. I let the tubes warm up for about 5 minutes. I check the bias and it was a little high, so I adjusted to 60ma. I then went through the

tune-up procedure, keeping a wary eye on the rig. The rig tuned up fine and I was getting full output on 40 meters. I spent about ten minutes, using a CW key to send into the dummy load every so often. The tubes seem to be okay. Didn't want to run for too long as I did not want to neutralize them in the 530. So, it seems the problem is not with the finals, which is kind of disappointing because this means there is a more difficult problem to track down. My next step will be to check the tube sockets for any shorts. Any other suggestions would be welcome.

Thanks

Steve K7QHU

From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
[mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com] On Behalf Of John Harp
Sent: Thursday, November 16, 2006 5:27 PM
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] TS-820S Transmit Problem

Stephen, after you replace the resistors with the proper wattage and value, try to to use a different pair of tubes that are known to be good.

Stephen Davis <sdavis@beachnet. <mailto:sdavis%40beachnet.com> com> wrote:
Hello All,

I picked up a Kenwood TS-820S a couple of weeks ago and was told that it would not transmit. I finally had a chance this evening to take a look at it. I fired it up, hooked it to a dummy load and let it warm up. After about 5 minutes, I went through the tune-up procedure and sure enough, no output. The meter showed I did have 60ma of bias and about 850 volts HV. I unplugged it, took the covers off and had a look. First thing I noticed was that the cathode and screen resistors looked new. Visual inspection did not turn up any obvious problems. Next I took a look at the transmit relay and it looked okay. I then plugged in the power cord, and turned the radio on. Heaters on all three tubes were glowing. I put the function switch into tune mode and flipped the xmit switch and observed that the transmitter relay was opening and closing as I went from receive to transmit and back again. I then decided to go through the tune-up procedure again. I put the mode switch to CW and the xmit/receive switch to xmit. I got distracted for a couple of seconds and turned away from the radio. As I turned back towards the radio, I heard three distinct "pops" and saw three blue flashes come from the xmit board. After coming back down from the ceiling (it really startled me!!) I unplugged the radio and took a look. R3 (10 ohm, 1 watt) had pits in it were little pieces had apparently been blown out of it! R2, R5, and R6 looked okay. I plan to replace all four of these (need to make a trip to Radio Shack tomorrow).

But, before I replace the resistors, I need help in figuring out what is causing the resistor(s) to blow. I am thinking a bad final tube, but would appreciate any thoughts the group might have on this or any troubleshooting tips.

Thanks,

Steve K7QHU

[Non-text portions of this message have been removed]

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

10994. Re: fan oil (tri flow)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 15:18:00 UTC
From: james27613
Topic: 10949 Message: 10994

hi,

none of the old lube was flushed out, I just used
three tiny drops into each bearing. the bottle has a
long plastic tube applicator for hard to reach areas.

for the shaft contact point, I used tom NYE lube,
dark grey lube, never dries out.
our xerox tech uses it on the high speed printers.

73 james

>
> Did it seem to flush anything out? or did it just lubricate deep
like a penetrating oil such as tapping oil?
>
> james27613 <james27613@...> wrote: hi,
>
> I have a ts-520 project I am working on,
> the drive control was siezed up tight,
>
> tried a few drops of the tri flow oil
> and let it sit overnight.
>
> the drive control feels like new again.
>
> 73 james
>
>
>
>
>
>
>
> ---------------------------------
> Sponsored Link
>
> Don't quit your job - take classes online and earn your degree
in 1 year. Start Today
>
> [Non-text portions of this message have been removed]
>

10995. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 15:42:16 UTC
From: digs4ruff
Topic: 10961 Message: 10995

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Max.
>
> I have been following along with most of you description of the RFI/Grounding problem you are experiencing. Without any knowledge of your physical circumstances in the house, equipment arrangement, feedlines and antennas, I would make one general recommendation. If you don't already have it, install a good single point bonding system for all your equipment at your operating equipment location. You should use something like a small aluminum or copper plate mounted in a convenient location at the rear of your equipment, and then run separate bonding conductors from each piece of equipment to the aluminum/copper common bonding point. An insulated braid or fairly large wire (#12 or larger). This takes care of bonding all the equipment together from a safety viewpoint.

Bill & Max
For my common ground system I simply used a length of 1/2 inch copper water pipe. Easy to drill and use self tapping screws for the individual connections to each piece of equipment. Thanks for the tip on grounding the coax shields.
regards
Barry

10996. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 15:45:58 UTC
From: digs4ruff
Topic: 10961 Message: 10996

Max
Living in Vancuver with it's rainfall and salt air, corrosion is
usually our biggest concern and it requires semi annual maintenance
to keep it at bay. Maybe??
regards
Barry
--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...>
wrote:
>
> I appreciate all the comments and suggestions. My only concern is
that
> this has never been a problem for me and nothing in the shack had
been
> changes to cause it to happen. Like it just started happening for
no
> particular reason. But I think what I will do is take everything
apart
> tonight and start over. I will dress every cable correctly and
neatly
> and shorten some up if I have to. I will put in a common ground as
> suggested and verify the outcome on the air as I progress.
Eventually
> I will find the cause of the problem. I just don't understand why
it
> would happen for now reason. The only thing that could have
happened
> is the rain.
>
> Thanks again for all the help.
>
> Max
>

10997. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 18:05:52 UTC
From: Rick KC0HH
Topic: 10961 Message: 10997

Hi Max,

I always use the third wire for chassis ground besides mic audio and mic ground, especially with the electret element. Besides having a much higher output it also seems to pick up RF easier. I think you are feeding the B+ for the electret from the RigBlaster. It makes sense that the RigBlaster case would have to be shielded better than just thru the wall wart.

The reason your antenna came into play with the RF problem is the rain. Not to pick on Cushcraft but just because the antenna has a good SWR does not mean it is efficient. I have read studies that 50% of your RF with the R7 is warming the earthworms. And that is with normal soil conductivity. Out here in the desert sand the figure goes up to 65%. With your ground staturated with water the efficiency goes up to like 90% with more RF going out towards the horizon including your shack.. The RFI will lessen when the ground dries out. Good way to check your antenna efficiency. Assuming you have everything waterproofed, If your SWR goes up and the bandwidth narrows when it rains, you have a poor radial (ground) system.

Rick KC0HH

ve3tmt <ve3tmt@...> wrote:
Rick,

This got me thinking..if I am feeding the electret element and audio
through only the hot wire and ground, do I really need this third wire
(the black one) in the cord at all? Perhaps if it is hooked up at
only one end it may be inducing a ground loop. I should try
disconnecting from the connectors at both ends and leave it unattached
in the cord.

Hopefully I will have some time to work on it tonight. I can't see the
antenna at fault as it is only happening on one band and only when the
mic is used. As mentioned before feeding PSK signals into the rig
causes no problems whatsoever.

Max

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

10998. Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 19:08:11 UTC
From: ve3tmt
Topic: 10961 Message: 10998

--- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:

> The reason your antenna came into play with the RF problem is the rain. With your ground staturated with water the efficiency goes up to like 90% with more RF going out towards the horizon including your shack.. The RFI will lessen when the ground dries out.

Then I am going to pray for rain, or snow...which should be any day now!

Max

10999. TS-520 Digital readout

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 21:17:46 UTC
From: wb3bqo
Topic: 10999 Message: 10999

Gentlemen! I have run the TS-520 since the '70s. It was bought used and it has a digital readout with 3 7-segment LEDs over the main tuning knob. I was told that this was a mod installed by a very big radio store in the LA area. Until now it has worked very well. Then, last week, it ceased to function. The readout display has random characters and won't change when the frequency is changed. I've checked for voltages from the 9-volt supply and also the frequency supplied by the big crystal at the left-rear of the chassis. All appears normal.
I have no schematic or other information on the display so am afraid to do any more testing without a road map.
Can anyone shed some light on where to obtain a schematic and maybe some history on this truely ancient readout?
Thanks & 73,

Pete Carr WW3O

11000. Re: [TS-520_820_530_830] Re: RF on 20m only ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 23:14:41 UTC
From: Rick KC0HH
Topic: 10961 Message: 11000

Hey Max,

You can help out the soil conductivity with several pounds of rock salt...It is kind of hard on the lawn though...Do you have any chain link fence in the yard? It makes a pretty good counterpoise.

Rick KC0HH

ve3tmt <ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Rick KC0HH <kc0hh@...> wrote:

> The reason your antenna came into play with the RF problem is the
rain. With your ground staturated with water the efficiency goes up to
like 90% with more RF going out towards the horizon including your
shack.. The RFI will lessen when the ground dries out.

Then I am going to pray for rain, or snow...which should be any day now!

Max

73' Rick KC0HH
Lamar, Colorado

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

11001. DFC 230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-18 23:28:52 UTC
From: PERRY
Topic: 11001 Message: 11001

Three weeks ago I found a New In the Box DFC 230 Frequency controller
for my TS 830
this unit was in the box never opened for over 20 years
Worked great for 3 weeks. last night the digital read out of the DFC-
230 is ok and changes except the radio went to 2.265.1
when I was on 160 meters. I guess maybe a bad cap after 20 years or the
PLL came unlocked ?

Anyone have experience on the DFC 230 I have the op manual with sket..
one voltage is in question but I think its a miss print in the manual
Perry wa8thk
thanks

11002. Re: [TS-520_820_530_830] TS-520 Digital readout

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 01:22:54 UTC
From: Peter A Markavage
Topic: 10999 Message: 11002

The addition was done by Henry Radio.

Pete, wa2cwa

On Sat, 18 Nov 2006 21:17:46 -0000 "wb3bqo" <wb3bqo@...> writes:
> Gentlemen! I have run the TS-520 since the '70s. It was bought used
> and it has a digital readout with 3 7-segment LEDs over the main
> tuning knob. I was told that this was a mod installed by a very big
>
> radio store in the LA area. Until now it has worked very well. Then,
>
> last week, it ceased to function. The readout display has random
> characters and won't change when the frequency is changed. I've
> checked for voltages from the 9-volt supply and also the frequency
> supplied by the big crystal at the left-rear of the chassis. All
> appears normal.
> I have no schematic or other information on the display so am afraid
>
> to do any more testing without a road map.
> Can anyone shed some light on where to obtain a schematic and maybe
>
> some history on this truely ancient readout?
> Thanks & 73,
>
> Pete Carr WW3O

11003. Digital readouts (Kenwood)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 02:29:56 UTC
From: Gene Hawkins
Topic: 11003 Message: 11003

Pete,

I am shooting from the hip here, but it
seems like I remember Henry Radio doing
some of these conversions.
Why don't you contact Ted Henry at
Henry Radio and ask him it he remembers
them doing these rigs.
Him and Meredith are a bundle of information
or you can contact them at www.henryradio.com

73,

Gene Hawkins
KA5CNT

11004. Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 03:39:04 UTC
From: Kevin
Topic: 11004 Message: 11004

Does anyone know what the value of the choke in the RF compartment
in the TS-830S in the final unit that goes from the second pin of the
5 pin connector between the two 6146's to ground is.

I cooked the coils on the resistor and my output and ALC have
gone way off. If so where can I get one?

73
Kevin
N0CWR

11005. RL1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 16:04:46 UTC
From: wb4mnk
Topic: 11005 Message: 11005

When should the relay RL1 on the rectifier board of a TS-830S become active?

73
Art
WB4MNK

11006. RL1

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 18:38:21 UTC
From: wb4mnk
Topic: 11005 Message: 11006

The problem with the RL1 on the rectifier Board has been solved.

Thanks
73
Art
WB4MNK

11007. Re: [TS-520_820_530_830] TS-520 Digital readout

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 19:48:53 UTC
From: Peter A Markavage
Topic: 10999 Message: 11007

I should have added:
I believe I have this info in my files. I'll take a look this evening.

Pete

On Sat, 18 Nov 2006 20:22:54 -0500 Peter A Markavage
<pmarkavage@...> writes:
> The addition was done by Henry Radio.
>
> Pete, wa2cwa
>
> On Sat, 18 Nov 2006 21:17:46 -0000 "wb3bqo" <wb3bqo@...>
> writes:
> > Gentlemen! I have run the TS-520 since the '70s. It was bought
> used
> > and it has a digital readout with 3 7-segment LEDs over the main
> > tuning knob. I was told that this was a mod installed by a very
> big
> >
> > radio store in the LA area. Until now it has worked very well.
> Then,
> >
> > last week, it ceased to function. The readout display has random
> > characters and won't change when the frequency is changed. I've
> > checked for voltages from the 9-volt supply and also the frequency
>
> > supplied by the big crystal at the left-rear of the chassis. All
> > appears normal.
> > I have no schematic or other information on the display so am
> afraid
> >
> > to do any more testing without a road map.
> > Can anyone shed some light on where to obtain a schematic and
> maybe
> >
> > some history on this truely ancient readout?
> > Thanks & 73,
> >
> > Pete Carr WW3O

11008. Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-19 23:56:38 UTC
From: KeViN_S
Topic: 11004 Message: 11008

I received help from Ken K4EAA. Thanks! Ken so much!

I ordered (3) from Mouser.

Also I found that without this choke that my ALC and IP max and dip better now.
It was always harder to find the dip on 80m before.
So I believe it may have been failing since troubles earlier.

Just for your info in case some one else encounters this problem....
I hope you don't mind Ken, my quoting here.
Anyhow here is what he said:

It is a pi-wound 470uH choke.
They use different chokes in different Kenwood hybrids.
It has a high impedence to HF frequencies but low resistance to DC.
It bleeds off DC.
It is a safety choke.

Anyhow, I see better IP dip now, ALC and my output is back to what it
should be without it in place, at least until I get the one I ordered.
It is a "dollar" item.

73 Kevin

Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

11009. Re: [TS-520_820_530_830] Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 00:26:03 UTC
From: Ruben Echevarria
Topic: 11004 Message: 11009

What was the Mouser part number on that choke?

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: KeViN_S <n0cwr@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 19, 2006 6:56:38 PM
Subject: [TS-520_820_530_830] Re:Choke

I received help from Ken K4EAA. Thanks! Ken so much!

I ordered (3) from Mouser.

Also I found that without this choke that my ALC and IP max and dip better now.
It was always harder to find the dip on 80m before.
So I believe it may have been failing since troubles earlier.

Just for your info in case some one else encounters this problem....
I hope you don't mind Ken, my quoting here.
Anyhow here is what he said:

It is a pi-wound 470uH choke.
They use different chokes in different Kenwood hybrids.
It has a high impedence to HF frequencies but low resistance to DC.
It bleeds off DC.
It is a safety choke.

------------ --------- --------- --------- --------- --------- -
Anyhow, I see better IP dip now, ALC and my output is back to what it
should be without it in place, at least until I get the one I ordered.
It is a "dollar" item.

73 Kevin

------------ --------- --------- ---
Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11010. Re: [TS-520_820_530_830] Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 04:38:39 UTC
From: KeViN_S
Topic: 11004 Message: 11010

Mouser Part number 807-1025-84k
MFG Part number 1025-84k API Delevan
470uH
$1.04

Ruben Echevarria <ka2hhb_2000@...> wrote:
What was the Mouser part number on that choke?

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: KeViN_S <n0cwr@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 19, 2006 6:56:38 PM
Subject: [TS-520_820_530_830] Re:Choke

I received help from Ken K4EAA. Thanks! Ken so much!

I ordered (3) from Mouser.

Also I found that without this choke that my ALC and IP max and dip better now.
It was always harder to find the dip on 80m before.
So I believe it may have been failing since troubles earlier.

Just for your info in case some one else encounters this problem....
I hope you don't mind Ken, my quoting here.
Anyhow here is what he said:

It is a pi-wound 470uH choke.
They use different chokes in different Kenwood hybrids.
It has a high impedence to HF frequencies but low resistance to DC.
It bleeds off DC.
It is a safety choke.

------------ --------- --------- --------- --------- --------- -
Anyhow, I see better IP dip now, ALC and my output is back to what it
should be without it in place, at least until I get the one I ordered.
It is a "dollar" item.

73 Kevin

------------ --------- --------- ---
Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

11011. Re: [TS-520_820_530_830] Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 04:54:51 UTC
From: Ruben Echevarria
Topic: 11004 Message: 11011

Thank you...I'll add that to my list of tips I'm putting together.....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: KeViN_S <n0cwr@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 19, 2006 11:38:39 PM
Subject: Re: [TS-520_820_530_830] Re:Choke

Mouser Part number 807-1025-84k
MFG Part number 1025-84k API Delevan
470uH
$1.04

Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
What was the Mouser part number on that choke?

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: KeViN_S <n0cwr@yahoo. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Sunday, November 19, 2006 6:56:38 PM
Subject: [TS-520_820_ 530_830] Re:Choke

I received help from Ken K4EAA. Thanks! Ken so much!

I ordered (3) from Mouser.

Also I found that without this choke that my ALC and IP max and dip better now.
It was always harder to find the dip on 80m before.
So I believe it may have been failing since troubles earlier.

Just for your info in case some one else encounters this problem....
I hope you don't mind Ken, my quoting here.
Anyhow here is what he said:

It is a pi-wound 470uH choke.
They use different chokes in different Kenwood hybrids.
It has a high impedence to HF frequencies but low resistance to DC.
It bleeds off DC.
It is a safety choke.

---------- --------- --------- --------- --------- --------- -
Anyhow, I see better IP dip now, ALC and my output is back to what it
should be without it in place, at least until I get the one I ordered.
It is a "dollar" item.

73 Kevin

---------- --------- --------- ---
Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

---------- --------- --------- ---
Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11012. 6146 tubes on ebay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 06:11:36 UTC
From: tscott22
Topic: 11012 Message: 11012

There is a small collection of 6146s on eBay.
3 GE 6146Bs and 2 RCA 6146As, purported to be "New old stock".
item number 170051607264
Tom W6SYT

11013. Re: [TS-520_820_530_830] Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 04:39:56 UTC
From: KeViN_S
Topic: 11004 Message: 11013

I ordered the cathode resistors that sometimes fry as well:

MERCHANDISE:

STOCK NUMBER ORDERED AVAILABILITY PRICE Ext. Price
==
807-1025-84K 3 3 Ships Immediately 1.040 3.120

273-20-RC 10 10 Ships Immediately 0.100 1.000

660-MF1/2DLT52R1000F4 4 Ships Immediately 0.090 0.360

660-MO1LT52R471J 5 5 Ships Immediately 0.100 0.500

Ruben Echevarria <ka2hhb_2000@...> wrote:
What was the Mouser part number on that choke?

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: KeViN_S <n0cwr@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 19, 2006 6:56:38 PM
Subject: [TS-520_820_530_830] Re:Choke

I received help from Ken K4EAA. Thanks! Ken so much!

I ordered (3) from Mouser.

Also I found that without this choke that my ALC and IP max and dip better now.
It was always harder to find the dip on 80m before.
So I believe it may have been failing since troubles earlier.

Just for your info in case some one else encounters this problem....
I hope you don't mind Ken, my quoting here.
Anyhow here is what he said:

It is a pi-wound 470uH choke.
They use different chokes in different Kenwood hybrids.
It has a high impedence to HF frequencies but low resistance to DC.
It bleeds off DC.
It is a safety choke.

------------ --------- --------- --------- --------- --------- -
Anyhow, I see better IP dip now, ALC and my output is back to what it
should be without it in place, at least until I get the one I ordered.

It is a "dollar" item.

73 Kevin

------------ --------- --------- ---
Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11014. "run away" carrier control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 12:19:57 UTC
From: cobra04106
Topic: 11014 Message: 11014

I have a 520 and when I start it up, according to the manual, I blow the fuse. After many fuse replacements, and trial and error, I found out that I could get full output with the carrier control at about one and a half. If I go over,and its very touchy, the power output will skyrocket and blow out the fuse. The radio works fine but it takes some finessing. Do I need a new pot? Also I get alot of fan noise, compared to my friends 520. I have cleaned and oiled mine. Maybe his shack is noisier and the fan noise seems lesser but I have eared it pretty good and its silent compared to mine. Any help would be appreciated.

11015. TS-820 Cabinet paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 22:27:57 UTC
From: Jack
Topic: 11015 Message: 11015

Does anyone know of a source for a "close match" for the 820/520
serier cabinet paint?

Jack in Ringgold, GA.

11016. Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 22:40:57 UTC
From: Kevin
Topic: 11004 Message: 11016

I did a little "googling" today looking to see if I could
find a direct replacement for that 470uh choke.
kenwood Part number L40-4711-03 shows up at

http://www.kenwoodparts.com/

Change Qty. Item Description Price
L40-4711-03 470UH FERRI-INDUCTOR $1.23
Subtotal $1.23

I didn't know this place existed.

73 Kevin

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria
<ka2hhb_2000@...> wrote:
>
> Thank you...I'll add that to my list of tips I'm putting
together.....
>
> Ruben Echevarria
> ka2hhb_2000@...
> 10-10 33308
>
>
>
> ----- Original Message ----
> From: KeViN_S <n0cwr@...>
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 19, 2006 11:38:39 PM
> Subject: Re: [TS-520_820_530_830] Re:Choke
>
> Mouser Part number 807-1025-84k
> MFG Part number 1025-84k API Delevan
> 470uH
> $1.04
>
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
> What was the Mouser part number on that choke?
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> ----- Original Message ----

> From: KeViN_S <n0cwr@yahoo. com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sunday, November 19, 2006 6:56:38 PM
> Subject: [TS-520_820_ 530_830] Re:Choke
>
> I received help from Ken K4EAA. Thanks! Ken so much!
>
> I ordered (3) from Mouser.
>
> Also I found that without this choke that my ALC and IP max and dip
better now.
> It was always harder to find the dip on 80m before.
> So I believe it may have been failing since troubles earlier.
>
> Just for your info in case some one else encounters this
problem....
> I hope you don't mind Ken, my quoting here.
> Anyhow here is what he said:
>
> It is a pi-wound 470uH choke.
> They use different chokes in different Kenwood hybrids.
> It has a high impedence to HF frequencies but low resistance to DC.
> It bleeds off DC.
> It is a safety choke.
>
> ------------ --------- --------- --------- --------- --------- -
> Anyhow, I see better IP dip now, ALC and my output is back to what
it
> should be without it in place, at least until I get the one I
ordered.
> It is a "dollar" item.
>
> 73 Kevin
>
> ------------ --------- --------- ---
> Sponsored Link
>
> Don't quit your job - take classes online and earn your degree in 1
year. Start Today
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Sponsored Link
>
> $420,000 Mortgage for $1,399/month - Think You Pay Too Much For
Your Mortgage? Find Out!
>

> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

11017. Re: [TS-520_820_530_830] Re:Choke

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 23:46:41 UTC
From: Ruben Echevarria
Topic: 11004 Message: 11017

Yes that's East Coast Transistor ....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Kevin <n0cwr@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 20, 2006 5:40:57 PM
Subject: [TS-520_820_530_830] Re:Choke

I did a little "googling" today looking to see if I could
find a direct replacement for that 470uh choke.
kenwood Part number L40-4711-03 shows up at

http://www.kenwoodp arts.com/

Change Qty. Item Description Price
L40-4711-03 470UH FERRI-INDUCTOR $1.23
Subtotal $1.23

I didn't know this place existed.

73 Kevin

--- In TS-520_820_530_ 830@yahoogroups. com, Ruben Echevarria
<ka2hhb_2000@ ...> wrote:
>
> Thank you...I'll add that to my list of tips I'm putting
together.... .
>
> Ruben Echevarria
> ka2hhb_2000@ ...
> 10-10 33308
>
>
>
> ----- Original Message ----
> From: KeViN_S <n0cwr@...>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sunday, November 19, 2006 11:38:39 PM
> Subject: Re: [TS-520_820_ 530_830] Re:Choke
>
> Mouser Part number 807-1025-84k
> MFG Part number 1025-84k API Delevan
> 470uH

> $1.04
>
>
> Ruben Echevarria <ka2hhb_2000@ yahoo.com> wrote:
> What was the Mouser part number on that choke?
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com
> 10-10 33308
>
> ----- Original Message ----
> From: KeViN_S <n0cwr@yahoo. com>
> To: TS-520_820_530_ 830@yahoogroups. com
> Sent: Sunday, November 19, 2006 6:56:38 PM
> Subject: [TS-520_820_ 530_830] Re:Choke
>
> I received help from Ken K4EAA. Thanks! Ken so much!
>
> I ordered (3) from Mouser.
>
> Also I found that without this choke that my ALC and IP max and dip
better now.
> It was always harder to find the dip on 80m before.
> So I believe it may have been failing since troubles earlier.
>
> Just for your info in case some one else encounters this
problem....
> I hope you don't mind Ken, my quoting here.
> Anyhow here is what he said:
>
> It is a pi-wound 470uH choke.
> They use different chokes in different Kenwood hybrids.
> It has a high impedence to HF frequencies but low resistance to DC.
> It bleeds off DC.
> It is a safety choke.
>
> ------------ --------- --------- --------- --------- --------- -
> Anyhow, I see better IP dip now, ALC and my output is back to what
it
> should be without it in place, at least until I get the one I
ordered.
> It is a "dollar" item.
>
> 73 Kevin
>
> ------------ --------- --------- ---
> Sponsored Link
>
> Don't quit your job - take classes online and earn your degree in 1
year. Start Today

>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ---
> Sponsored Link
>
> $420,000 Mortgage for $1,399/month - Think You Pay Too Much For
Your Mortgage? Find Out!
>
> [Non-text portions of this message have been removed]
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

11018. Re: [TS-520_820_530_830] TS-820 Cabinet paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-20 23:47:30 UTC
From: Ruben Echevarria
Topic: 11015 Message: 11018

Try Ken Kemski K4EAA at: www.k4eaa.com

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Jack <kf4yio@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 20, 2006 5:27:57 PM
Subject: [TS-520_820_530_830] TS-820 Cabinet paint

Does anyone know of a source for a "close match" for the 820/520
serier cabinet paint?

Jack in Ringgold, GA.

[Non-text portions of this message have been removed]

11019. Re: [TS-520_820_530_830] 6146 tubes on ebay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 00:35:27 UTC
From: John Harp
Topic: 11012 Message: 11019

Yes Tom there are 6146 tubes on ebay regularly. I keep them set in my favorates. Do you have a question about these tubes?

tscott22 <tscott@...> wrote: There is a small collection of 6146s on eBay.
3 GE 6146Bs and 2 RCA 6146As, purported to be "New old stock".
item number 170051607264
Tom W6SYT

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11020. Re: [TS-520_820_530_830] TS-820 Cabinet paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 00:38:56 UTC
From: John Harp
Topic: 11015 Message: 11020

Check K4EAA. Her came up with a close match up.

Jack <kf4yio@...> wrote: Does anyone know of a source for a "close match" for the 820/520 serier cabinet paint?

Jack in Ringgold, GA.

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11021. Re: TS-820 Cabinet paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 03:09:52 UTC
From: Rick
Topic: 11015 Message: 11021

Krylon Satin Stone Gray is a VERY close match and is available
everywhere - even here in Oz.
Rick

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Check K4EAA. Her came up with a close match up.
>
> Jack <kf4yio@...> wrote: Does anyone know of a source for
a "close match" for the 820/520
> serier cabinet paint?
>
> Jack in Ringgold, GA.
>
>
>
>
>
>
>
> ---------------------------------
> Sponsored Link
>
> Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo -
Calculate new house payment
>
> [Non-text portions of this message have been removed]
>

11022. New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 03:08:12 UTC
From: Kevin
Topic: 11022 Message: 11022

Hi All,

Thanks to allowing me join this group.

As a owner of a TS-830, I am glad to be able to find this group, and hopefully help with advice, and also receive.

Today, I am in the need of help.

My TS-830, in my care for 5 years, has decided in the past few days to stop transmitting. The last activity was the CQWW contest a few weeks back. The next time I tried using it, I got very little, to no power output. Now I get nothing, bias has even dropped to nothing, well only about 5-10ma, it had been sitting steady on 60ma, as the manual mentions without any problem.

I am guessing the tubes have died, and will need replacing?
I know they are 6146B's, and have checked on eBay and found 6146W's. What are the differnce between these type? I did hear that the "B" are better?

One comment I received during the contest, was that he could hear a buzz on the TX. Might of been the start of it's death. :(

Any help of any sort would be grateful, wish to get the radio back working, and operating.

Regards
Kevin, ZL1KFM

11023. Re: [TS-520_820_530_830] New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 10:02:19 UTC
From: n9wb
Topic: 11022 Message: 11023

Kevin:
I doubt that it is the tubes. With your meter switch on HV what is your high voltage?

It should be in the area of 800 V. If it is low like 400 V you have bad High voltage filter capacitors C-22 and c-24 or a bad diode, D1,D2,D3,D4.

If the high voltage reads correctly, take the cover off of the rig and measure the voltage at the point labeled SG on the bottom of the final board. It should read a bit over 200 VDC.

Use caution around the rectifier board, the capacitors, and the transformer as well as inside of the final unit. There is 800 Volts there.

Does the rig get a normal ALC reading with the meter switch on ALC when tuning up and peaking the drive control ?

Let us know the results from the above.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 20, 2006 10:08 PM
Subject: [TS-520_820_530_830] New to Group - No Power Output

Hi All,

Thanks to allowing me join this group.

As a owner of a TS-830, I am glad to be able to find this group, and hopefully help with advice, and also receive.

Today, I am in the need of help.

My TS-830, in my care for 5 years, has decided in the past few days to stop transmitting. The last activity was the CQWW contest a few weeks back. The next time I tried using it, I got very little, to no power output. Now I get nothing, bias has even dropped to nothing, well only about 5-10ma, it had been sitting steady on 60ma, as the manual mentions without any problem.

I am guessing the tubes have died, and will need replacing?
I know they are 6146B's, and have checked on eBay and found 6146W's.
What are the differnce between these type? I did hear that the "B" are better?

One comment I received during the contest, was that he could hear a buzz on the TX. Might of been the start of it's death. :(

Any help of any sort would be grateful, wish to get the radio back working, and operating.

Regards
Kevin, ZL1KFM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

11024. TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 09:43:13 UTC
From: rodgerbryce
Topic: 11024 Message: 11024

Hello all, I am very pleased to have found this web site dedicated to the Kenwood range of hybrid transceiver.

I have a TS530s which I purchased new in 1981, unfortunately I am beginning to have problems, as follows:

The 6146B's were changed several years ago, by some one 'who new what they were doing'within 2 hours of operating time, I saw smoke and switched off the rig. On inspection one of the valves had gone, but couldn't really see any more than that.

I used the rig for receiving for a number of years after that, but have decided I wish to try and get the old girl up and running again.I installed a new matched pair of valves and get the following output:

3.700: 25 watts
7.050: 5.6 watts
10.110: 91 watts
14.200: 98 watts
18.110: 91 watts
21.205: 20 watts
24.910: zero
28.400: zero

The valves have not been neutralised as I cannot get any power on 28 Mhz.

I have little or no experience with valve rigs, so any advice on trying to trace the cause of the problem would be gratefully received.

Tnx, de Rodger/GM3JOB.

11025. Re: [TS-520_820_530_830] TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 11:04:29 UTC
From: n9wb
Topic: 11024 Message: 11025

Here is my guess:
R-2 R-3 R-4, R-5 on the final unit board are 20 ohm 1 watt. They are in parallel. So they will read 5 ohms in circuit. I believe that these were probably damaged when the final flashed over. Replace them with original type 20 ohm 1 watt. DO NOT increase the wattage of them as they act as a fuse to avoid damage if a final flashes over. If the wattage is increased, you will loose this protection.

I also believe that the shaft coupling that connects the front bandswitch shaft to the rear bandswitch shaft in the final cage has deteriorated over the years. This has allowed the rear bandswitch wafers to get out of line with the front ones. In essence, the rear bandswitch wafers are switched to the wrong band. If this condition exists, do not attempt to transmit until this is corrected.

Go to the files section of this group. Go to repairs and alignments folder. Go to Flex Bandswitch Coupling Repl PDF.

This has pictures and everything posted by Bill K0ZL. Although it is for the 830, the 530 is very much alike in this area.

http://f1.grp.yahoofs.com/v1/IM5iRYoliy5vpY_8oDrOJAc-4vVbnEV24vehPj_pJEkqukEsy0hDvmvBUa8TDP2pHFkx-4MMJhewEgIx7XpH/REPAIRS%20AND%20ALIGNMENT/TS-530-820-830%20FLEX%20BANDSWITCH%20COUPLING%20REPL.pdf

Vy 73, Walt N9WB

----- Original Message -----
From: rodgerbryce
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 4:43 AM
Subject: [TS-520_820_530_830] TS530s

Hello all, I am very pleased to have found this web site dedicated
to the Kenwood range of hybrid transceiver.

I have a TS530s which I purchased new in 1981, unfortunately I am
beginning to have problems, as follows:

The 6146B's were changed several years ago, by some one 'who new
what they were doing'within 2 hours of operating time, I saw smoke
and switched off the rig. On inspection one of the valves had gone,
but couldn't really see any more than that.

I used the rig for receiving for a number of years after that, but
have decided I wish to try and get the old girl up and running
again.I installed a new matched pair of valves and get the following
output:

3.700: 25 watts
7.050: 5.6 watts
10.110: 91 watts
14.200: 98 watts
18.110: 91 watts
21.205: 20 watts
24.910: zero
28.400: zero

The valves have not been neutralised as I cannot get any power on 28 Mhz.

I have little or no experience with valve rigs, so any advice on trying to trace the cause of the problem would be gratefully received.

Tnx, de Rodger/GM3JOB.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

11026. Re: [TS-520_820_530_830] "run away" carrier control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 11:17:25 UTC
From: n9wb
Topic: 11014 Message: 11026

What do you call "full output" ?
What do you call "the power output will
skyrocket" ? to how many watts?

The first thing that I would do is go to the files section and look at the article "Save your Transformer". Build a light bulb tester to keep you power transformer from being abused until you resolve this problem.

First I must ask this question. Are you operating it on 120 V. I don't know where you live and I am considering the possability that you may have the switch on the back set for 110 volts when using 220 to 240 volts.

Is your idle current set to 60 MA as specified?

Does it do this on 40 meters into a dummy load? Are you measuring the power on an external watt meter. Will it test the SWR while on a dummy load ?

If you switch your meter it HV what does it read on transmit?

Please answer the above and we will scratch our heads and go from there.

Vy 73, Walt N9WB

----- Original Message -----
From: cobra04106
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 20, 2006 7:19 AM
Subject: [TS-520_820_530_830] "run away" carrier control

I have a 520 and when I start it up, according to the manual, I blow the fuse. After many fuse replacements, and trial and error, I found out that I could get full output with the carrier control at about one and a half. If I go over,and its very touchy, the power output will skyrocket and blow out the fuse. The radio works fine but it takes some finessing. Do I need a new pot? Also I get alot of fan noise, compared to my friends 520. I have cleaned and oiled mine. Maybe his shack is noisier and the fan noise seems lesser but I have eared it pretty good and its silent compared to mine. Any help would be appreciated.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date: 11/20/06

11027. Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 13:36:39 UTC
From: w7cth
Topic: 11024 Message: 11027

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

11028. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 13:57:56 UTC
From: n9wb
Topic: 11024 Message: 11028

What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF
board.When we had to make the 600mvp-p ajustment on USB and LSB. Did
it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

11029. Re: [TS-520_820_530_830] TS-820 Cabinet paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 15:00:51 UTC
From: Rick KC0HH
Topic: 11015 Message: 11029

Hi Jack,

There is a guy in Missouri that sells aerosol cans on E-Bay that match the Kenwood hybrids case color perfectly. It costs about $20.00 per can but one can will do several cases. Here is the link. ..http://cgi.ebay.com/Kenwood-TS-520-530S-820-820S-830-830S-930S-Paint_W0QQitemZ180052686479QQihZ008QQcategoryZ4671QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

Rick KC0HH

Jack <kf4yio@...> wrote: Does anyone know of a source for a "close match" for the 820/520 serier cabinet paint?

Jack in Ringgold, GA.

Sponsored Link

Rates near 39yr lows. $420,000 Loan for $1399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11030. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 14:32:24 UTC
From: Chris HEmbree
Topic: 11024 Message: 11030

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF
board.When we had to make the 600mvp-p ajustment on USB and LSB. Did
it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11031. Web Site TRI-FLOW OILS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 17:25:40 UTC
From: N3DOK
Topic: 11031 Message: 11031

To members of the TS-830S Yahoo Mail List.

Hi, Here is the website for TRI-FLOW. They have several different types of products.
http://www.triflowlubricants.com/index.html

I Have no interest in any of these products. The name TRI-Flow oil has been brought up at times. I wanted to find out what type of a product it is. Now you can decide if it can be used on any of the Kenwood's. I have not found this product in the Pittsburgh PA area.
Bob N3DOK

Superior Lubricant Drip Bottle
Tri-Flow Superior Lubricant provides twice the lubricating power of most competitive brands. Its light viscosity allows for deep penetration into hard to reach moving parts. High grade petroleum oils provide optimum lubrication under extreme temperatures (-60 to 475F) and humidity. Formulated solvents soften and remove dirt and contaminants, while special additives displace moisture and prevent rust and corrosion.

USAGE:
. Ideal for loosening rusted and corroded nuts and bolts
. Excellent for lubricating chains and all pivot points

RECOMMENDED CONDITIONS:
. Ideal for all conditions - wet, dry, road and trail

Superior Dry Lubricant
Tri-Flow Superior Dry Lubricant was specifically designed to lubricate like an oil and stay clean like a wax. Its exclusive formula includes paraffin wax and high grade petroleum oil which penetrates as it quickly sets up and dries, leaving a thin, visible, coating that repels water as it lubricates. Adhesion promoters dramatically reduce shedding, increasing the length of time before reapplication. Special additives displace moisture and eliminate the potential for rust and corrosion, while an inherent anti-static agent works to repel dirt and dust under extremely arid and dry conditions.

USAGE:
. Great for lubricating all pivot points
. Specifically designed for lubricating chains

RECOMMENDED CONDITIONS:
. Ideal for extreme conditions - wet, dry, road
and trail

High Performance Synthetic Grease
Tri-Flow High Performance Synthetic Grease is specially formulated to lubricate any surface that slides, glides, rolls, twists, turns or spins. This non-melting, waterproof formula is designed to seal out water and contaminates and prevent rust and corrosion under extreme temperatures (110 to 400F). This pure synthetic grease is fully compatible with most rubbers and plastics. It is available in a squeeze tube that fits most injection

systems.

USAGE:
. Great for o-ring seals
. Ideal for packing wheel bearings
. Excellent for stringing cables

RECOMMENDED CONDITIONS:
. Ideal for all conditions - wet, dry, road and trail

Citrus Cleaner/Degreaser
Quickly clean and degrease even the dirtiest drivetrains with Tri-Flow Citrus Cleaner/Degreaser. Its high velocity, precision valve blasts dirt and debris while the powerful foaming action loosens grease, oil and hardened deposits, leaving surfaces clean and residue free. Designed with the environment in mind, this water-soluble, biodegradable, citrus-based formula can easily be rinsed with water.

USAGE:
. Best for cleaning mounted drivetrains
. Great for soaking gunked up parts and tools
. Ideal for use with parts washers
. Excellent for use with chain cleaners

Rapid Clean Dry Degreaser
Tri-Flow Rapid Clean Dry Degreaser is a premium formula with an attached high velocity trigger valve that blasts away dirt, mud, grease and oil. Leaves no contaminant-attracting residue or chlorinated solvent run-off. Cleans surface and degreases quickly.

USAGE:
. Ideal for bikes/motorcycles, linkage, chains, fishing reels, nuts/bolts, caliper discs, skates/boards, firearms, cables, sewing machines, brake shoes, machines, all-purpose parts cleaning.

[Non-text portions of this message have been removed]

11032. New Member/New TS520S owner/Physics of final tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 19:31:11 UTC
From: frnklyn_brwn
Topic: 11032 Message: 11032

Hello all..I am a new member and new owner of a TS-520S.

I have been away from tubes for quit awhile and am trying to
understand the physics of what is going on during the
tune up procedure (current/voltages etc).

I have reviewed various tech publications (including ARRL and
internet web sites) but am still hazy.

This is a great forum. I have leaned a lot on the couple
of weeks I have been following it.

11033. Re: Web Site TRI-FLOW OILS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 20:29:55 UTC
From: Bob
Topic: 11031 Message: 11033

--- In TS-520_820_530_830@yahoogroups.com, "N3DOK" <n3dok@...> wrote:
>
I was told WALMART has this product in the bicycle section at certain stores .....yes it's supposed to be a great lube.
BOB N3OO

> To members of the TS-830S Yahoo Mail List.
>
> Hi, Here is the website for TRI-FLOW. They have several different types of products.
> http://www.triflowlubricants.com/index.html
>
> I Have no interest in any of these products. The name TRI-Flow oil has been brought up at times. I wanted to find out what type of a product it is. Now you can decide if it can be used on any of the Kenwood's. I have not found this product in the Pittsburgh PA area.
> Bob N3DOK
>
> Superior Lubricant Drip Bottle
> Tri-Flow Superior Lubricant provides twice the lubricating power of most competitive brands. Its light viscosity allows for deep penetration into hard to reach moving parts. High grade petroleum oils provide optimum lubrication under extreme temperatures (-60 to 475F) and humidity. Formulated solvents soften and remove dirt and contaminants, while special additives displace moisture and prevent rust and corrosion.
>
> USAGE:
> . Ideal for loosening rusted and corroded nuts and bolts
> . Excellent for lubricating chains and all pivot points
>
> RECOMMENDED CONDITIONS:
> . Ideal for all conditions - wet, dry, road and trail
>
> Superior Dry Lubricant
> Tri-Flow Superior Dry Lubricant was specifically designed to lubricate like an oil and stay clean like a wax. Its exclusive formula includes paraffin wax and high grade petroleum oil which penetrates as it quickly sets up and dries, leaving a thin, visible, coating that repels water as it lubricates. Adhesion promoters dramatically reduce shedding, increasing the length of time before reapplication. Special additives displace moisture and eliminate the potential for rust and corrosion, while an inherent anti-static agent works to repel dirt and dust under extremely arid and dry conditions.
>

> USAGE:
> . Great for lubricating all pivot points
> . Specifically designed for lubricating chains
>
> RECOMMENDED CONDITIONS:
> . Ideal for extreme conditions - wet, dry, road
> and trail
>
> High Performance Synthetic Grease
> Tri-Flow High Performance Synthetic Grease is specially formulated
to lubricate any surface that slides, glides, rolls, twists, turns or
spins. This non-melting, waterproof formula is designed to seal out
water and contaminates and prevent rust and corrosion under extreme
temperatures (110 to 400F). This pure synthetic grease is fully
compatible with most rubbers and plastics. It is available in a
squeeze tube that fits most injection systems.
>
> USAGE:
> . Great for o-ring seals
> . Ideal for packing wheel bearings
> . Excellent for stringing cables
>
> RECOMMENDED CONDITIONS:
> . Ideal for all conditions - wet, dry, road and trail
>
> Citrus Cleaner/Degreaser
> Quickly clean and degrease even the dirtiest drivetrains with
Tri-Flow Citrus Cleaner/Degreaser. Its high velocity, precision valve
blasts dirt and debris while the powerful foaming action loosens
grease, oil and hardened deposits, leaving surfaces clean and residue
free. Designed with the environment in mind, this water-soluble,
biodegradable, citrus-based formula can easily be rinsed with water.
>
> USAGE:
> . Best for cleaning mounted drivetrains
> . Great for soaking gunked up parts and tools
> . Ideal for use with parts washers
> . Excellent for use with chain cleaners
>
> Rapid Clean Dry Degreaser
> Tri-Flow Rapid Clean Dry Degreaser is a premium formula with an
attached high velocity trigger valve that blasts away dirt, mud,
grease and oil. Leaves no contaminant-attracting residue or
chlorinated solvent run-off. Cleans surface and degreases quickly.
>
> USAGE:
> . Ideal for bikes/motorcycles, linkage, chains, fishing reels,
nuts/bolts, caliper discs, skates/boards, firearms, cables, sewing
machines, brake shoes, machines, all-purpose parts cleaning.
>

>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11034. Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-21 23:39:57 UTC
From: wb3bqo
Topic: 11034 Message: 11034

Gentlemen. I had posted a message looking for the schematic for a TS-520 digital readout and am still looking. However, I e-mailed Henry Radio and just received a message from Ted Henry himself. They had scoured the files and were not able to find the schematic. Ted mentioned that they had not had a request for readout data in over 5 years. I may have the last remaining one!
Anyway, it was very thoughtful of Ted to respond. I appreciate his taking time let me know that they had looked. There are some truely fine gentlemen in this hobby!
Best 73,
Pete Carr WW3O

11035. Re: [TS-520_820_530_830] Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 00:47:59 UTC
From: Ruben Echevarria
Topic: 11034 Message: 11035

Are you speaking about the DG5 digital display?

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: wb3bqo <wb3bqo@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 6:39:57 PM
Subject: [TS-520_820_530_830] Ted Henry.

Gentlemen. I had posted a message looking for the schematic for a TS-520 digital readout and am still looking. However, I e-mailed Henry Radio and just received a message from Ted Henry himself. They had scoured the files and were not able to find the schematic. Ted mentioned that they had not had a request for readout data in over 5 years. I may have the last remaining one!
Anyway, it was very thoughtful of Ted to respond. I appreciate his taking time let me know that they had looked. There are some truely fine gentlemen in this hobby!
Best 73,
Pete Carr WW3O

[Non-text portions of this message have been removed]

11036. Re: "run away" carrier control

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 01:12:05 UTC
From: w5rkl
Topic: 11014 Message: 11036

With the limited information you have provided and with some
experience with a similiar problem with Heathkit
transmitters/transceivers, I'll take a stab at the problem. It
appears to be a carrier null problem.

You've given us the symptom but we need additional information to
help you with your problem. My thoughts are pure guess work and is
based solely on experience with a smiliar problem with Heathkit gear.
Therefore, please give us some more info.

73's

Mike
W5RKL

--- In TS-520_820_530_830@...m, "n9wb" <n9wb@...> wrote:
>
> What do you call "full output" ?
> What do you call "the power output will
> skyrocket" ? to how many watts?
>
> The first thing that I would do is go to the files section and look
at the
> article "Save your Transformer". Build a light bulb tester to keep
you power
> transformer from being abused until you resolve this problem.
>
> First I must ask this question. Are you operating it on 120 V. I
don't know
> where you live and I am considering the possability that you may
have the
> switch on the back set for 110 volts when using 220 to 240 volts.
>
> Is your idle current set to 60 MA as specified?
>
> Does it do this on 40 meters into a dummy load? Are you measuring
the power
> on an external watt meter. Will it test the SWR while on a dummy
load ?
>
> If you switch your meter it HV what does it read on transmit?
>
> Please answer the above and we will scratch our heads and go from
there.
>
> Vy 73, Walt N9WB

>
>
> ----- Original Message -----
> From: cobra04106
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 20, 2006 7:19 AM
> Subject: [TS-520_820_530_830] "run away" carrier control
>
>
> I have a 520 and when I start it up, according to the manual, I blow
> the fuse. After many fuse replacements, and trial and error, I found
> out that I could get full output with the carrier control at about
one
> and a half. If I go over,and its very touchy, the power output will
> skyrocket and blow out the fuse. The radio works fine but it takes
some
> finessing. Do I need a new pot? Also I get alot of fan noise,
compared
> to my friends 520. I have cleaned and oiled mine. Maybe his shack is
> noisier and the fan noise seems lesser but I have eared it pretty
good
> and its silent compared to mine. Any help would be appreciated.
>
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date:
11/20/06
>

11037. Re: [TS-520_820_530_830] Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 01:27:25 UTC
From: John Harp
Topic: 11034 Message: 11037

Pete your right about that. It shows how difficult it's getting to find information on certain aspects of our Kenwood Tube Hybrids (and some parts as well). It's times like this are when we resort to alternatives.

I see two options if it were me. Adapt a frequency counter from another unit or use a frequency counter purchased separately and monitor it from outside the radio. The second option would be the way I'd opt to go. At least until I found another frequency counter if I was that serious about the unit.

It was good of him to respond and it shows the dedication to the product and service. Unfortunately it also shows the difficulty in finding the resource you require.

wb3bqo <wb3bqo@...> wrote:
Gentlemen. I had posted a message looking for the schematic for a TS-520 digital readout and am still looking. However, I e-mailed Henry Radio and just received a message from Ted Henry himself. They had scoured the files and were not able to find the schematic. Ted mentioned that they had not had a request for readout data in over 5 years. I may have the last remaining one!
Anyway, it was very thoughtful of Ted to respond. I appreciate his taking time let me know that they had looked. There are some truely fine gentlemen in this hobby!
Best 73,
Pete Carr WW3O

Sponsored Link

Mortgage rates near 39yr lows. $510,000 Mortgage for $1,698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11038. Re: [TS-520_820_530_830] New Member/New TS520S owner/Physics of final tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 01:57:59 UTC
From: John Harp
Topic: 11032 Message: 11038

Hello Franklin and welcome to the group. Are you experiencing problems with tuning or just don't understand the tuning process? Do you haave the manual that came with the 520?

frnklyn_brwn <frnklyn_brwn@...> wrote: Hello all..I am a new member and new owner of a TS-520S.

I have been away from tubes for quit awhile and am trying to
understand the physics of what is going on during the
tune up procedure (current/voltages etc).

I have reviewed various tech publications (including ARRL and
internet web sites) but am still hazy.

This is a great forum. I have leaned a lot on the couple
of weeks I have been following it.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11039. Re: [TS-520_820_530_830] Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 01:54:45 UTC
From: John Harp
Topic: 11034 Message: 11039

Pete, I just looked over in the BAMA manuals section for Kenwood products and they have information for the digital Display for the TS-520. There are two displays apparently listed. The one is the harder to find display that you could originally obtain for the 520 which was provided courtesy of James Marolda here in our group and the other seems to be an aftermarket product called DG-5, which seems mainly used for the 520 S and SE Radios. Is this what your looking for?

wb3bqo <wb3bqo@...> wrote: Gentlemen. I had posted a message looking for the schematic for a TS-
520 digital readout and am still looking. However, I e-mailed Henry
Radio and just received a message from Ted Henry himself. They had
scoured the files and were not able to find the schematic. Ted
mentioned that they had not had a request for readout data in over 5
years. I may have the last remaining one!
Anyway, it was very thoughtful of Ted to respond. I appreciate his
taking time let me know that they had looked. There are some truely
fine gentlemen in this hobby!
Best 73,
Pete Carr WW3O

Sponsored Link

Mortgage rates near 39yr lows. $510,000 Mortgage for $1,698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11040. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 02:00:15 UTC
From: John Harp
Topic: 11024 Message: 11040

I think he has a TS-830S from what I remember Walt.

Chris HEmbree <w7cth@...> wrote: TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF
board.When we had to make the 600mvp-p ajustment on USB and LSB. Did
it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11041. Re: [TS-520_820_530_830] Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 01:49:41 UTC
From: John Harp
Topic: 11034 Message: 11041

Pete your right about that. It shows how difficult it's getting to find information on certain aspects of our Kenwood Tube Hybrids (and some parts as well). It's times like this are when we resort to alternatives.

I see two options if it were me. Adapt a frequency counter from another unit or use a frequency counter purchased separately and monitor it from outside the radio. The second option would be the way I'd opt to go. At least until I found another frequency counter if I was that serious about the unit.

It was good of him to respond and it shows the dedication to the product and service. Unfortunately it also shows the difficulty in finding the resource you require.

wb3bqo <wb3bqo@...> wrote:
Gentlemen. I had posted a message looking for the schematic for a TS-520 digital readout and am still looking. However, I e-mailed Henry Radio and just received a message from Ted Henry himself. They had scoured the files and were not able to find the schematic. Ted mentioned that they had not had a request for readout data in over 5 years. I may have the last remaining one!
Anyway, it was very thoughtful of Ted to respond. I appreciate his taking time let me know that they had looked. There are some truely fine gentlemen in this hobby!
Best 73,
Pete Carr WW3O

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11042. Re: [TS-520_820_530_830] TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 02:10:46 UTC
From: John Harp
Topic: 11024 Message: 11042

Roger, check the grid resistors inside. Look fir obvious damage. they'll read 20 ohms if they're good or 10 as a pair. They are one watt size. Use the same as they are like a fuse to keep from damaging something more costly.

rodgerbryce <gm3job@...> wrote: Hello all, I am very pleased to have found this web site dedicated
to the Kenwood range of hybrid transceiver.

I have a TS530s which I purchased new in 1981, unfortunately I am
beginning to have problems, as follows:

The 6146B's were changed several years ago, by some one 'who new
what they were doing'within 2 hours of operating time, I saw smoke
and switched off the rig. On inspection one of the valves had gone,
but couldn't really see any more than that.

I used the rig for receiving for a number of years after that, but
have decided I wish to try and get the old girl up and running
again.I installed a new matched pair of valves and get the following
output:

3.700: 25 watts
7.050: 5.6 watts
10.110: 91 watts
14.200: 98 watts
18.110: 91 watts
21.205: 20 watts
24.910: zero
28.400: zero

The valves have not been neutralised as I cannot get any power on 28
Mhz.

I have little or no experience with valve rigs, so any advice on
trying to trace the cause of the problem would be gratefully
received.

Tnx, de Rodger/GM3JOB.

Sponsored Link

Mortgage rates near 39yr lows. $420,000 Mortgage for $1,399/mo - Calculate new house payment

[Non-text portions of this message have been removed]

11043. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 02:28:05 UTC
From: Chris HEmbree
Topic: 11024 Message: 11043

yes it is a TS-830S
Chris

John Harp <ka3dpw@...> wrote: I think he has a TS-830S from what I remember Walt.

Chris HEmbree <w7cth@...> wrote: TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF
board.When we had to make the 600mvp-p ajustment on USB and LSB. Did
it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11044. Re: [TS-520_820_530_830] New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 02:05:48 UTC
From: John Harp
Topic: 11022 Message: 11044

Hi Kevin, I'm John. KA3DPW. I'e got 830's. Something that happens with these radios is that occasionally the Filter Caps may go bad in them. Check your filter caps. Check your diodes too. My bet is the filter caps.

Kevin <sparcnz@...> wrote: Hi All,

Thanks to allowing me join this group.

As a owner of a TS-830, I am glad to be able to find this group, and hopefully help with advice, and also receive.

Today, I am in the need of help.

My TS-830, in my care for 5 years, has decided in the past few days to stop transmitting. The last activity was the CQWW contest a few weeks back. The next time I tried using it, I got very little, to no power output. Now I get nothing, bias has even dropped to nothing, well only about 5-10ma, it had been sitting steady on 60ma, as the manual mentions without any problem.

I am guessing the tubes have died, and will need replacing?
I know they are 6146B's, and have checked on eBay and found 6146W's. What are the differnce between these type? I did hear that the "B" are better?

One comment I received during the contest, was that he could hear a buzz on the TX. Might of been the start of it's death. :(

Any help of any sort would be grateful, wish to get the radio back working, and operating.

Regards
Kevin, ZL1KFM

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

11045. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 02:56:15 UTC
From: John Harp
Topic: 11024 Message: 11045

I remember talking with you about it. I think it was neutralization. Glad to see your doing well with yours.

I'm changing mic and adding ALC limiter soon to mine. Got a transverter to wire as well. Stock up on winter projects.

Chris HEmbree <w7cth@...> wrote:
yes it is a TS-830S
Chris

John Harp <ka3dpw@...> wrote: I think he has a TS-830S from what I remember Walt.

Chris HEmbree <w7cth@...> wrote: TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Sponsored Link

Want a degree but can't afford to quit? Online degrees from top schools - in as fast as 1 year

[Non-text portions of this message have been removed]

11046. New Member with a question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 03:12:53 UTC
From: Dennis
Topic: 11046 Message: 11046

Hello to the group. Just joined within the last two weeks, and have
been lurking and learning. Recently aquired a TS-520s, and TS-820s
both in excellent condition.(I am currently bunking in with the dog).
On the 820s the black tube sheild is missing from 12By7A tube. The
ground strap is still there. How important is the metal sheild on the
tube? I think I read somewhere on the some other radios they were
removed because of heat, but not sure. If it is a must I would think
it could be found or even made. Thanks and hello
dennis ve6ac

11047. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 07:23:57 UTC
From: n9wb
Topic: 11024 Message: 11047

It should not make any difference what band you are on as it is in the IF. However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

11048. Re: [TS-520_820_530_830] Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 02:48:48 UTC
From: Peter A Markavage
Topic: 11034 Message: 11048

Pete is looking for the Henry Radio after-market digital display that
they marketed for the 520. The DG-1 and outboard DG-5, were both made by
Kenwood.

Pete, wa2cwa

On Tue, 21 Nov 2006 17:54:45 -0800 (PST) John Harp <ka3dpw@...>
writes:
> Pete, I just looked over in the BAMA manuals section for Kenwood
> products and they have information for the digital Display for the
> TS-520. There are two displays apparently listed. The one is the
> harder to find display that you could originally obtain for the 520
> which was provided courtesy of James Marolda here in our group and
> the other seems to be an aftermarket product called DG-5, which
> seems mainly used for the 520 S and SE Radios. Is this what your
> looking for?
>
> wb3bqo <wb3bqo@...> wrote: Gentlemen. I had posted a
> message looking for the schematic for a TS-
> 520 digital readout and am still looking. However, I e-mailed Henry
>
> Radio and just received a message from Ted Henry himself. They had
> scoured the files and were not able to find the schematic. Ted
> mentioned that they had not had a request for readout data in over 5
>
> years. I may have the last remaining one!
> Anyway, it was very thoughtful of Ted to respond. I appreciate his
> taking time let me know that they had looked. There are some truely
>
> fine gentlemen in this hobby!
> Best 73,
> Pete Carr WW3O
>
>
>
>
>
>
> ---------------------------------
> Sponsored Link
>
> Mortgage rates near 39yr lows. $510,000 Mortgage for $1,698/mo -
> Calculate new house payment
>
> [Non-text portions of this message have been removed]

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

11049. TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 12:12:08 UTC
From: rodgerbryce
Topic: 11024 Message: 11049

Thanks to N9WB & KA3DPW for their input on my problems, based on their advice and a more detailed examination, I have found the following:

1. Resistors 2,3,4 & 5 appear to be alright visually, no signs of any damage.

2.The bandswitch located within the PA compartment is not moving, the inoming shaft is turning at the flexible coupler. I do not have an allen key of the right size as yet to try and tighten the set screws.(not surprising I blew a valve!)
Assuming I can tighten the existing or have to replace the coupler how do I go about setting it all back up again??

3.At the bottom of the final choke within the PA compartment, there is a 0.01uF capacitor which goes to ground and what appears to be choke which goes to the 800v connection on the bottom side.I think it is L1 a 6.8uh choke, it has been severely overheating judging by the colour of it, green at the ends black in the middle, does anyone know what sort of resistance value I should get through this??

Thanks in advance for any information.

73 de Rodger/GM3JOB

11050. TS-830M Low RX Audio and Good Sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 12:49:44 UTC
From: Giuseppe Bisesti
Topic: 11050 Message: 11050

Hi everybody,

i experienced a trouble i didn't yet find on the net. I post the solution i found for sake of experience sharing.

The ts830m is an european version of the rig whith am capability instead of narrow cw capability.

The symptom was audio very weak on SSB/CW rx but good sensitivity (smeter showed the right indications on cal position). On tx the monitor audio level was really ok. The audio level was also good on am rx.

A quick look at the schematics showed that in the rx section there is an additional board for am detection. The board is readily accessible simply removing the top rig cover.

During the ssb and cw reception that board is bypassed by a dpdt dil relay, while the signal coming from monitor detection circuitry is directly fed to the audio amp just after the am board.

So, the solution is very simple: substitute the relay. It's a commonly avalaible and cheap relay. So no reason, for me, to try to clean it. Simply substituted.

Hope all above of some interest for someone.

73's de i8vye/0 (Joe)

11051. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 14:14:34 UTC
From: Chris HEmbree
Topic: 11024 Message: 11051

I am not 100% sure if I have a proplem with 17m. On 40 and 20m I always have a noise floor from 4-6 db. On 17m I have a noise floor of o db all the time. I hear stations on 17m from 1-6 db. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHZ coils only L-19 and L-20. thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----

From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

11052. Re: Ted Henry.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 14:57:00 UTC
From: digs4ruff
Topic: 11034 Message: 11052

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
> I see two options if it were me. Adapt a frequency counter from
another unit or use a frequency counter purchased separately and
monitor it from outside the radio. The second option would be the way
I'd opt to go. At least until I found another frequency counter if I
was that serious about the unit.
>
I bought a non-working 80Mhz counter from Fleabay for $10. Risky yes.
On plugging it in it did not work so checked and 5V supply was at
2.5V. Followed the land or copper trace out from the regulator till it
split in two. Cut one of these and the regulator came up to 5V.
Bridged that cut and moved to the next Y along the BO trace and
repeated. Fifteen minutes work and a bad electrolytic was isolated and
replaced. Sure the unit now has some solder bridges on the copper runs
but I don't really mind as it is only a support device and not part of
the main station. Tried a BNC antenna but with 4 radios at the bench
the reading was not too stable. Found that a piece of coax wound
around the transmission line coax is working OK till some more
permanent solution is devised.
regards
Barry in Vancouver

11053. microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 18:55:35 UTC
From: rightflyer60
Topic: 11053 Message: 11053

hi group,
looking for a replacement element to fit a d-104
looking for an element that works good with this radios audio.
does not have to be a d-104 element.does the magnetic element
from shure work,just looking info from anyone.

11054. New Member/ New TS520S owner/ Physics of Final Tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 19:30:57 UTC
From: frnklyn_brwn
Topic: 11054 Message: 11054

Thank you for the welcome. I do have the owners manual plus some other downloads that explain the tune-up procedure. Since my rig is new to me I am trying to understand what is going on rather than just follow the procedure "recipe style"

With regard to the plate idle current isn't the 60 ma kenwood suggests an arbitrary figure? It seems to me you could set this within a wide variation subject to physicaly overheating the cathode/plate elements. Does the 60ma pre-set have an effect on the linearity of the response or determine the class of amplifier.

On the same subject what is the "bias pot" adjustment for required 60ma idle plate current? Is it a variable resistor that controls grid voltage and therefore bias or is it a resistor in the plate circuit that controls plate potential and indirectly grid bias (or non of the above)?

Thanks..

Frank
AC7IO

11055. Re: microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 20:03:51 UTC
From: ve3tmt
Topic: 11053 Message: 11055

--- In TS-520_820_530_830@yahoogroups.com, "rightflyer60"
<rightflyer60@...> wrote:
>
> hi group,
> looking for a replacement element to fit a d-104
> looking for an element that works good with this radios audio.
> does not have to be a d-104 element.does the magnetic element
> from shure work,just looking info from anyone.
>

I am in the process of wiring up an electret element to my 830. It's
been working and when it does it sounds great. I am relocating the
guts to a separate enclose to stop the RF problem I've been experiencing.

Max VE3TMT

11056. Re: [TS-520_820_530_830] microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 20:12:56 UTC
From: Chris HEmbree
Topic: 11053 Message: 11056

Heil Sound has a element for a D104 mic. You can look on there web site or call
@618-257-3000
Chris..

rightflyer60 <rightflyer60@...> wrote: hi group,
looking for a replacement element to fit a d-104
looking for an element that works good with this radios audio.
does not have to be a d-104 element.does the magnetic element
from shure work,just looking info from anyone.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11057. Re: [TS-520_820_530_830] New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 20:29:08 UTC
From: Troy, W6HV
Topic: 11022 Message: 11057

Just got a nice looking 830s with the same problem. Checked and found no 800 volts. Can someone suggest an appropriate replacement for the four diodes (the schematic shows VO8J or V08J and I haven't found it listed in my cross-reference guides)? Also, I know there was a suitable replacement listed awhile back for the the filter caps--would someone let me know that info as well? Might as well change out those. Yep, my archive search was extremely limited.
73,Troy
----- Original Message -----
From: John Harp<mailto:ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com<mailto:TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, November 21, 2006 6:05 PM
Subject: Re: [TS-520_820_530_830] New to Group - No Power Output

Hi Kevin, I'm John. KA3DPW. I'e got 830's. Something that happens with these radios is that occasionally the Filter Caps may go bad in them. Check your filter caps. Check your diodes too. My bet is the filter caps.

[Non-text portions of this message have been removed]

11058. Re: TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 21:27:53 UTC
From: Gordon
Topic: 10991 Message: 11058

The VO8J diodes are rated at 1000v @ 1.1 amps
The VO6E diodes are 400 V @ 1.1 Amp
The VO3C diodes are 200 @ 1.3 amps

I would think the VO8J could be substitued by a NTE-156 as it is rated
1000V @ 2 Amps.

I haven't looked up any crosses for the other 2, but it shouldn't be
difficult to find some that at least meet the requirements.

Gordon

In TS-520_820_530_830@yahoogroups.com, "n3ihm" <bsin@...> wrote:
>
> I have a ts520 but the rectifier unit is from a ts520s
> what I need to know is what can be used for replacement of the
> diodes in the rectifier unit
> I talked to kenwood but they have no cross ref. for these diodes
> anyone have any idea?
>
> diodes are listed as VO8J,VO6E VO3C can't find any info on these
> type of diodes
>
> Bret
> N3IHM
>

11059. Re: TS-820S Transmit Problem - Update#2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 21:46:06 UTC
From: Gordon
Topic: 10950 Message: 11059

Steve,
I have studied the Schematic and I don't believe there is a K at all
in the Schematic. I don't know why it shows on the Diagram . In fact,
I find NO other K at all.
Perhaps Walt can help us out here. I don't have an 820 here in front
of me to check out.

Gordon

-- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...>
wrote:
>
> Hello All,
>
> I have replaced the screen and cathode resistors. Both cathode
> resistors (R2 and R3) were open. The screen resistors were okay, but
> replaced them anyway. I have not fired up the rig yet as I am still not
> sure what caused the resistors to open. As stated in my last
update, the
> tubes checked good when I tried them in my TS-530, so I think that
rules out
> the tubes as the culprit.
>
> In looking at the Final Board circuit diagram, I see a point
marked "K"
> at the edge of the diagram. On the Final Board PC layout, there is
no point
> "K" that I can see. I think "K" stands for cathode. Does anyone
know what
> is on the other side of point "K"? On the large overall schematic,
there is
> no point "K" shown in the final section. Sorry if that is
confusing. Here
> is what I am thinking... One side of R2 and R3 is grounded. It
looks like
> the other side is connected to pins 1,4, and 6 of the finals and to
point K.
> So it does not seem like much can go wrong on the final board
itself, except
> for a shorted tube, which I don't think is the case. So I am
thinking the
> problem must lie beyond point "k", but don't know how to find it on the
> schematic.
>
> I don't have a lot of experience, so it the above assumption is

wrong,
> incomplete, or way out in left field, please don't hesitate to
correct me!!
> Any help or suggestions appreciated.
>
> Thanks
>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Davis
> Sent: Thursday, November 16, 2006 11:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS-820S Transmit Problem - Update#1
>
>
>
> Walt and John,
>
> Thanks for your reply's. I did not get a chance to pick up the
> resistors today. However, I wanted to make some progress, so I
decided to
> take the tubes from the 820 that we suspected might be shorted and
try them
> in my TS-530. I had check the tubes for shorts after reading Walt's
primer
> in the archives and found no shorts. The finals by the way are the
original
> S2001A's. Anyway, I put them into the TS-530, hooked up the dummy
load and
> powered up. I let the tubes warm up for about 5 minutes. I check the
bias
> and it was a little high, so I adjusted to 60ma. I then went through the
> tune-up procedure, keeping a wary eye on the rig. The rig tuned up
fine and
> I was getting full output on 40 meters. I spent about ten minutes,
using a
> CW key to send into the dummy load every so often. The tubes seem to be
> okay. Didn't want to run for too long as I did not want to
neutralize them
> in the 530. So, it seems the problem is not with the finals, which
is kind
> of disappointing because this means there is a more difficult problem to
> track down. My next step will be to check the tube sockets for any
shorts.
> Any other suggestions would be welcome.
>
> Thanks

>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com] On Behalf Of John Harp
> Sent: Thursday, November 16, 2006 5:27 PM
> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S Transmit Problem
>
> Stephen, after you replace the resistors with the proper wattage and
value,
> try to to use a different pair of tubes that are known to be good.
>
> Stephen Davis <sdavis@beachnet. <mailto:sdavis%40beachnet.com> com>
wrote:
> Hello All,
>
> I picked up a Kenwood TS-820S a couple of weeks ago and was told that
> it would not transmit. I finally had a chance this evening to take a
look
> at it. I fired it up, hooked it to a dummy load and let it warm up.
After
> about 5 minutes, I went through the tune-up procedure and sure
enough, no
> output. The meter showed I did have 60ma of bias and about 850 volts
HV. I
> unplugged it, took the covers off and had a look. First thing I
noticed was
> that the cathode and screen resistors looked new. Visual inspection
did not
> turn up any obvious problems. Next I took a look at the transmit
relay and
> it looked okay. I then plugged in the power cord, and turned the
radio on.
> Heaters on all three tubes were glowing. I put the function switch into
> tune mode and flipped the xmit switch and observed that the transmitter
> relay was opening and closing as I went from receive to transmit and
back
> again. I then decided to go through the tune-up procedure again. I
put the
> mode switch to CW and the xmit/receive switch to xmit. I got
distracted for
> a couple of seconds and turned away from the radio. As I turned back
> towards the radio, I heard three distinct "pops" and saw three blue
flashes

> come from the xmit board. After coming back down from the ceiling (it
> really startled me!!) I unplugged the radio and took a look. R3 (10
ohm, 1
> watt) had pits in it were little pieces had apparently been blown
out of it!
> R2, R5, and R6 looked okay. I plan to replace all four of these (need to
> make a trip to Radio Shack tomorrow).
>
> But, before I replace the resistors, I need help in figuring out what
> is causing the resistor(s) to blow. I am thinking a bad final tube, but
> would appreciate any thoughts the group might have on this or any
> troubleshooting tips.
>
> Thanks,
>
> Steve K7QHU
>
> [Non-text portions of this message have been removed]
>
> ---
> Sponsored Link
>
> $420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your
> Mortgage? Find Out!
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11060. Re: TS-820 Cabinet paint

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 21:52:18 UTC
From: Gordon
Topic: 11015 Message: 11060

Jack,
I have a couple of extra cans. I paid $ 17.00 each for them
including shipping. I'll sell you one for that price if you can't find
any .
The Color is a Perfect Match!
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Does anyone know of a source for a "close match" for the 820/520
> serier cabinet paint?
>
> Jack in Ringgold, GA.
>

11061. Re: [TS-520_820_530_830] Re: TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 22:05:38 UTC
From: Ruben Echevarria
Topic: 10991 Message: 11061

http://www.loadparts.com/Catalog/A/1318.htm

This site shows the V08J diodes and cross reference

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Gordon <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 4:27:53 PM
Subject: [TS-520_820_530_830] Re: TS520 Rectifier Unit

The VO8J diodes are rated at 1000v @ 1.1 amps
The VO6E diodes are 400 V @ 1.1 Amp
The VO3C diodes are 200 @ 1.3 amps

I would think the VO8J could be substitued by a NTE-156 as it is rated
1000V @ 2 Amps.

I haven't looked up any crosses for the other 2, but it shouldn't be
difficult to find some that at least meet the requirements.

Gordon

In TS-520_820_530_ 830@yahoogroups. com, "n3ihm" <bsin@...> wrote:
>
> I have a ts520 but the rectifier unit is from a ts520s
> what I need to know is what can be used for replacement of the
> diodes in the rectifier unit
> I talked to kenwood but they have no cross ref. for these diodes
> anyone have any idea?
>
> diodes are listed as VO8J,VO6E VO3C can't find any info on these
> type of diodes
>
> Bret
> N3IHM
>

[Non-text portions of this message have been removed]

11062. Re: [TS-520_820_530_830] Re: TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 22:15:56 UTC
From: N6WK
Topic: 10991 Message: 11062

Hi Ruben,
I tried using that sitem, but couldn't make heads nor tails of how to
use it to actually find the VO8J diode. I see it on the first page, but
then tried going to the cross reference with NO luck.
Can you tell me what I am doing wrong over there?

Gordon

Ruben Echevarria wrote:

> http://www.loadparts.com/Catalog/A/1318.htm
> <http://www.loadparts.com/Catalog/A/1318.htm>
>
> This site shows the V08J diodes and cross reference
>
> Ruben Echevarria
> ka2hhb_2000@... <mailto:ka2hhb_2000%40yahoo.com>
> 10-10 33308
>
> ----- Original Message ----
> From: Gordon <n6wk@... <mailto:n6wk%40n6wk.com>>
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Wednesday, November 22, 2006 4:27:53 PM
> Subject: [TS-520_820_530_830] Re: TS520 Rectifier Unit
>
> The VO8J diodes are rated at 1000v @ 1.1 amps
> The VO6E diodes are 400 V @ 1.1 Amp
> The VO3C diodes are 200 @ 1.3 amps
>
> I would think the VO8J could be substitued by a NTE-156 as it is rated
> 1000V @ 2 Amps.
>
> I haven't looked up any crosses for the other 2, but it shouldn't be
> difficult to find some that at least meet the requirements.
>
> Gordon
>
> In TS-520_820_530_ 830@yahoogroups. com, "n3ihm" <bsin@...> wrote:
> >
> > I have a ts520 but the rectifier unit is from a ts520s
> > what I need to know is what can be used for replacement of the
> > diodes in the rectifier unit
> > I talked to kenwood but they have no cross ref. for these diodes
> > anyone have any idea?
> >

> > diodes are listed as VO8J,VO6E VO3C can't find any info on these
> > type of diodes
> >
> > Bret
> > N3IHM
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

11064. Re: [TS-520_820_530_830] Re: TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 22:38:05 UTC
From: Ruben Echevarria
Topic: 10991 Message: 11064

Hello Gordon ...try this : http://www.loadparts.com/download/download.asp

It's actually a cross reference utility and it also finds the supplier.
By the way...The number is V0 not VO, I believe that the guys are
typing in an "O'" oscar intead of "0" zero for the number and that's why
they're having problems finding it. V08J= Victor Zero Eight Juliet .....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: N6WK <n6wk@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 5:15:56 PM
Subject: Re: [TS-520_820_530_830] Re: TS520 Rectifier Unit

Hi Ruben,
I tried using that sitem, but couldn't make heads nor tails of how to
use it to actually find the VO8J diode. I see it on the first page, but
then tried going to the cross reference with NO luck.
Can you tell me what I am doing wrong over there?

Gordon

Ruben Echevarria wrote:

> http://www.loadpart s.com/Catalog/ A/1318.htm
> <http://www.loadpart s.com/Catalog/ A/1318.htm>
>
> This site shows the V08J diodes and cross reference
>
> Ruben Echevarria
> ka2hhb_2000@ yahoo.com <mailto:ka2hhb_ 2000%40yahoo. com>
> 10-10 33308
>
> ----- Original Message ----
> From: Gordon <n6wk@... <mailto:n6wk% 40n6wk.com> >
> To: TS-520_820_530_ 830@yahoogroups. com
> <mailto:TS-520_ 820_530_830% 40yahoogroups. com>
> Sent: Wednesday, November 22, 2006 4:27:53 PM
> Subject: [TS-520_820_ 530_830] Re: TS520 Rectifier Unit
>
> The VO8J diodes are rated at 1000v @ 1.1 amps
> The VO6E diodes are 400 V @ 1.1 Amp
> The VO3C diodes are 200 @ 1.3 amps
>

> I would think the VO8J could be substitued by a NTE-156 as it is rated
> 1000V @ 2 Amps.
>
> I haven't looked up any crosses for the other 2, but it shouldn't be
> difficult to find some that at least meet the requirements.
>
> Gordon
>
> In TS-520_820_530_ 830@yahoogroups. com, "n3ihm" <bsin@...> wrote:
> >
> > I have a ts520 but the rectifier unit is from a ts520s
> > what I need to know is what can be used for replacement of the
> > diodes in the rectifier unit
> > I talked to kenwood but they have no cross ref. for these diodes
> > anyone have any idea?
> >
> > diodes are listed as VO8J,VO6E VO3C can't find any info on these
> > type of diodes
> >
> > Bret
> > N3IHM
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11065. Re: [TS-520_820_530_830] Re: microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 22:11:33 UTC
From: Rick KC0HH
Topic: 11053 Message: 11065

The Shure element is much too large to fit in a D-104 mic head. If the D-104 you have has the amplified base, the Heil element sould work, I am pretty sure it is a low impedance element though so if you have an un-amplified base, you would seriously underdrive the Kenwood. The electret element Max refers to has more than enough drive for the Kenwood but you need B+ for it.

Max, you are still having an RFI issue? Is the RigBlaster not shielded? Have you tried plugging the mic directly into the Kenwood to see if the RFI clears up?

Rick KC0HH

ve3tmt <ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "rightflyer60" <rightflyer60@...> wrote:
>
> hi group,
> looking for a replacement element to fit a d-104
> looking for an element that works good with this radios audio.
> does not have to be a d-104 element.does the magnetic element
> from shure work,just looking info from anyone.
>

I am in the process of wiring up an electret element to my 830. It's
been working and when it does it sounds great. I am relocating the
guts to a separate enclose to stop the RF problem I've been experiencing.

Max VE3TMT

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11066. RE: [TS-520_820_530_830] microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-22 22:38:41 UTC
From: Walter Milton
Topic: 11053 Message: 11066

Try the Heil HC-104 kit form Heil Sound Ltd. this is a kit to replace a
bad element in the D-104 head. Good audio also!!

Walt. KA2NJF
Psalm 1
A child of the Living God

_____

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of rightflyer60
Sent: Wednesday, November 22, 2006 1:56 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] microphone element for ts-530sp

hi group,
looking for a replacement element to fit a d-104
looking for an element that works good with this radios audio.
does not have to be a d-104 element.does the magnetic element
from shure work,just looking info from anyone.

[Non-text portions of this message have been removed]

11067. Re: [TS-520_820_530_830] microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 00:17:03 UTC
From: n9wb
Topic: 11053 Message: 11067

I will get back with you more when I have time. Is it an amplified D-104 ? What is wrong with the element?

1.Remove the back plate from the head. There is foam that insulates the element leads from the back. This deteriorates and shorts out the element.
2. Another failure is that the glue in the center of the element that connects the post to the center of the diaphragm breaks loose. You need a magnifying glass to inspect it. the glue is heat soluble so you can heat it with a soldering iron and re-melt it. Use only as much heat as necessary at too much heat can damage the ceramic crystal.

The Heil HC-5 is a good replacement choice, I have just replaced one with a $2.00 Electret element from radio shack.

Tell us more and we can come up with ideas.

Vy 73, Walt N9WB

----- Original Message -----
From: rightflyer60
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 1:55 PM
Subject: [TS-520_820_530_830] microphone element for ts-530sp

hi group,
looking for a replacement element to fit a d-104
looking for an element that works good with this radios audio.
does not have to be a d-104 element.does the magnetic element
from shure work,just looking info from anyone.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

11068. Re: [TS-520_820_530_830] microphone element for ts-530sp

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 05:38:32 UTC
From: Rick KC0HH
Topic: 11053 Message: 11068

There are several D-104 mic elements on E-Bay. One is for $13.00 shipped. Here is the link.
http://cgi.ebay.com/ASTATIC-D104-REPLACEMENT-MIC-MICROPHONE-ELEMENT_W0QQitemZ180053555214QQihZ008QQcategoryZ48707QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

If you have the amplified base, you can use a Radio Shack 276-090 electret element (~$3.00) that sounds really good with the Kenwoods and has plenty of drive. I made a round cardboard disk and mounted the element in the center to put in the mic head. Use the 9 volt battery in the base to power the electret. Use some foam rubber in front of the element to reduce breath blasts as it is pretty sensitive.

Rick KC0HH

rightflyer60 <rightflyer60@...> wrote: hi group,
looking for a replacement element to fit a d-104
looking for an element that works good with this radios audio.
does not have to be a d-104 element.does the magnetic element
from shure work,just looking info from anyone.

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11069. Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 01:27:04 UTC
From: mi_magic3
Topic: 11069 Message: 11069

Hi all and thanks to the moderators of the group who allowed me to join. My Dad and step-brother recently gave me some awesome equipment that they are not using. Both are hams (as am I) and they are no longer active for a variatey of reasons. My step brother GAVE me his TS-830S, MFJ Bencher paddle with keyer, MFJ 300 watt dummy load, MC-50 Desk mic and Vectronics (MFJ) tuner and a Silver Eagle D-104 mic. My dad thru in a G5RV, and a REAL J-38 Key (I've had my eye on that for years, and he told me that in the 1950's those were sold at local Detroit area ham stores by the barrel for about 50 cents!!!) I've been to Dayton many times and seen J-38's for $100!!! Hard to believe a straight key fetches so much coin....anyways....

I have read the thread on smokey radios (along with the scientific explanation of why water does not cause corrosion, I AGREE!!) and have also seen that many people mentioned Deoxit for cleaning...

Both my Dad and step brother smoked around this radio and its smelly, and just from what I can tell by the few hours it has been on, very intermittent with regards to the volume knob. I would be interested to know some major areas to clean, how to clean the volume type pots, controls , etc. I'm fimiliar with radio disassembly to some degree, and have the service and owners manuals for this radio, (many thanks to Al Gore for inventing the internet! LOL). I like the Freebreeze idea with the plastic bag, thats going to be done for sure, along with an entire face/knob removal, but the guts inside have me concerned. Not sure I want to totally disassemble the radio as another fellow has mentioned doing...my 7 year old daughter and my wife will take issue to many nights in the basement...

If anyone has had similiar radio, I would be interested in knowing what major surgurey you did to get it smelling "spring time fresh", hell, I'll even go for the new plastic smell!! But that's pushing it...!!

Many thanks in advance, and Happy Thanksgiving to all...

vy 73

Dave N8HUL

11070. Re: [TS-520_820_530_830] Re: TS520 Rectifier Unit

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 08:02:02 UTC
From: Peter A Markavage
Topic: 10991 Message: 11070

The V08J rectifiers are still listed as available from East Coast Parts.
You could also use 1N5408. They're rated at 3A, 1000V. Average price per
single unit is about 12 cents each.

Pete, wa2cwa

On Wed, 22 Nov 2006 21:27:53 -0000 "Gordon" <n6wk@...> writes:
> The VO8J diodes are rated at 1000v @ 1.1 amps
> The VO6E diodes are 400 V @ 1.1 Amp
> The VO3C diodes are 200 @ 1.3 amps
>
> I would think the VO8J could be substitued by a NTE-156 as it is
> rated
> 1000V @ 2 Amps.
>
> I haven't looked up any crosses for the other 2, but it shouldn't
> be
> difficult to find some that at least meet the requirements.
>
> Gordon
>
>
> In TS-520_820_530_830@yahoogroups.com, "n3ihm" <bsin@...> wrote:
> >
> > I have a ts520 but the rectifier unit is from a ts520s
> > what I need to know is what can be used for replacement of the
> > diodes in the rectifier unit
> > I talked to kenwood but they have no cross ref. for these diodes
> > anyone have any idea?
> >
> > diodes are listed as VO8J,VO6E VO3C can't find any info on these
> > type of diodes
> >
> > Bret
> > N3IHM

11071. Re: [TS-520_820_530_830] Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 07:57:52 UTC
From: pmertens
Topic: 11069 Message: 11071

Hi,

Congratulations, the TS820S, is the best hybrid radio Kenwood has
produced, better than the 830S acoording to me !
To clean the outside of the radio and the front panel, I do it with
water and detergent. Usual cleaning spray for electronics contact works
fine for the volume pot.
This radio is build like a tank. Sometimes, display is no longer
functionning due to oxidation in the contact strip. Just pull it out and
clean it with contact spray.
Maybe you should also verify the 10 Ohms / 2 watts resistors on the base
of the 6146 tubes. Sometimes they are burn and should than be replaced.
They protect the transfo in case of bad tuning and high swr.

73 from Belgium, Patrick - ON4NY

mi_magic3 a ?crit :
> Hi all and thanks to the moderators of the group who allowed me to
> join. My Dad and step-brother recently gave me some awesome equipment
> that they are not using. Both are hams (as am I) and they are no
> longer active for a variatey of reasons. My step brother GAVE me his
> TS-830S, MFJ Bencher paddle with keyer, MFJ 300 watt dummy load, MC-50
> Desk mic and Vectronics (MFJ) tuner and a Silver Eagle D-104 mic. My
> dad thru in a G5RV, and a REAL J-38 Key (I've had my eye on that for
> years, and he told me that in the 1950's those were sold at local
> Detroit area ham stores by the barrel for about 50 cents!!!) I've
> been to Dayton many times and seen J-38's for $100!!! Hard to believe
> a straight key fetches so much coin....anyways....
>
> I have read the thread on smokey radios (along with the scientific
> explanation of why water does not cause corrosion, I AGREE!!) and have
> also seen that many people mentioned Deoxit for cleaning...
>
> Both my Dad and step brother smoked around this radio and its smelly,
> and just from what I can tell by the few hours it has been on, very
> intermittent with regards to the volume knob. I would be interested
> to know some major areas to clean, how to clean the volume type pots,
> controls , etc. I'm fimiliar with radio disassembly to some degree,
> and have the service and owners manuals for this radio, (many thanks
> to Al Gore for inventing the internet! LOL). I like the Freebreeze
> idea with the plastic bag, thats going to be done for sure, along with
> an entire face/knob removal, but the guts inside have me concerned.
> Not sure I want to totally disassemble the radio as another fellow has
> mentioned doing...my 7 year old daughter and my wife will take issue
> to many nights in the basement...
>

> If anyone has had similiar radio, I would be interested in knowing
> what major surgurey you did to get it smelling "spring time fresh",
> hell, I'll even go for the new plastic smell!! But that's pushing
> it...!!
>
> Many thanks in advance, and Happy Thanksgiving to all...
>
> vy 73
>
> Dave N8HUL
>
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

11072. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 09:19:41 UTC
From: n9wb
Topic: 11024 Message: 11072

Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from 1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20.
thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a
weak signal. Then adjust L-20 clockwise past the peak and back CCW to the
peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the
peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum
receive brings it to the proper level. If it does, is this different than
the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

11073. Re: [TS-520_820_530_830] Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 10:21:35 UTC
From: n9wb
Topic: 11069 Message: 11073

The 830 uses 4 20 ohm resistors instead of two 10 ohms like the 820 does. If you measure across any one of them with an ohm meter it should read 5 ohms because all 4 are in parallel. Just because the resistors look good is no assurance. BTW, these are Cathode resistors. They serve as a shunt for the IC meter and serve as a fuse if the finals short.

Vy 73, Walt N9WB

----- Original Message -----
From: pmertens
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 2:57 AM
Subject: Re: [TS-520_820_530_830] Proud owner of a Kenwood TS-830S!!!

Hi,

Congratulations, the TS820S, is the best hybrid radio Kenwood has produced, better than the 830S acoording to me !
To clean the outside of the radio and the front panel, I do it with water and detergent. Usual cleaning spray for electronics contact works fine for the volume pot.
This radio is build like a tank. Sometimes, display is no longer functionning due to oxidation in the contact strip. Just pull it out and clean it with contact spray.
Maybe you should also verify the 10 Ohms / 2 watts resistors on the base of the 6146 tubes. Sometimes they are burn and should than be replaced. They protect the transfo in case of bad tuning and high swr.

73 from Belgium, Patrick - ON4NY

mi_magic3 a écrit :
> Hi all and thanks to the moderators of the group who allowed me to
> join. My Dad and step-brother recently gave me some awesome equipment
> that they are not using. Both are hams (as am I) and they are no
> longer active for a variatey of reasons. My step brother GAVE me his
> TS-830S, MFJ Bencher paddle with keyer, MFJ 300 watt dummy load, MC-50
> Desk mic and Vectronics (MFJ) tuner and a Silver Eagle D-104 mic. My
> dad thru in a G5RV, and a REAL J-38 Key (I've had my eye on that for
> years, and he told me that in the 1950's those were sold at local
> Detroit area ham stores by the barrel for about 50 cents!!!) I've
> been to Dayton many times and seen J-38's for $100!!! Hard to believe
> a straight key fetches so much coin....anyways....
>
> I have read the thread on smokey radios (along with the scientific
> explanation of why water does not cause corrosion, I AGREE!!) and have
> also seen that many people mentioned Deoxit for cleaning...
>

> Both my Dad and step brother smoked around this radio and its smelly,
> and just from what I can tell by the few hours it has been on, very
> intermittent with regards to the volume knob. I would be interested
> to know some major areas to clean, how to clean the volume type pots,
> controls , etc. I'm fimiliar with radio disassembly to some degree,
> and have the service and owners manuals for this radio, (many thanks
> to Al Gore for inventing the internet! LOL). I like the Freebreeze
> idea with the plastic bag, thats going to be done for sure, along with
> an entire face/knob removal, but the guts inside have me concerned.
> Not sure I want to totally disassemble the radio as another fellow has
> mentioned doing...my 7 year old daughter and my wife will take issue
> to many nights in the basement...
>
> If anyone has had similiar radio, I would be interested in knowing
> what major surgurey you did to get it smelling "spring time fresh",
> hell, I'll even go for the new plastic smell!! But that's pushing
> it...!!
>
> Many thanks in advance, and Happy Thanksgiving to all...
>
> vy 73
>
> Dave N8HUL
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

11074. Re: [TS-520_820_530_830] New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 08:40:39 UTC
From: Kevin & Natalia
Topic: 11022 Message: 11074

To Walt and John, and others

Thanks for the information sent so far. I have updated information as requested.

The voltage reading at "SG" on Final board is between 253-257VDC, so this appears to be correct as advised.
The Driver is glowing when the heater is switched on. Can not see the 6146's if they are glowing.
Bias is now back to giving me 60ma, but this is not all the time.
When I switch to tune, and switch to ALC, I am able to get a good swing, and are able to peak the Driver.
When switched to HV, I get no voltage reading, the meter does no swing. I thought I had it swing to around 600v on Tuesday, but not now.

Did notice when looking at the underneath of the radio, looking at the 2 large caps, that one has a burn bubble on it, about 8-10mm diameter, the other appears to that it might have a bit of a leak. I guess these are the filter caps.
The diodes look okay. Got a bit too dark in the shed to check with the meter if they are blown.

Hope this helps with the questions asked from the 2 above persons.

? I notice that the valves in the radio are 6146B's, and I have been given a set of 6146. A bit of reading says it is not best to go back to 6146 if 6146B's are the standard valve used in the radio. I may just get a set (or 2) of 6146W.

Again Thanks for the help and information.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 11:02 PM
Subject: Re: [TS-520_820_530_830] New to Group - No Power Output

Kevin:
I doubt that it is the tubes. With your meter switch on HV what is your high voltage?

It should be in the area of 800 V. If it is low like 400 V you have bad High voltage filter capacitors C-22 and c-24 or a bad diode, D1,D2,D3,D4.

If the high voltage reads correctly, take the cover off of the rig and measure the voltage at the point labeled SG on the bottom of the final board. It should read a bit over 200 VDC.

Use caution around the rectifier board, the capacitors, and the transformer as well as inside of the final unit. There is 800 Volts there.

Does the rig get a normal ALC reading with the meter switch on ALC when tuning up and peaking the drive control ?

Let us know the results from the above.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 20, 2006 10:08 PM
Subject: [TS-520_820_530_830] New to Group - No Power Output

Hi All,

Thanks to allowing me join this group.

As a owner of a TS-830, I am glad to be able to find this group, and hopefully help with advice, and also receive.

Today, I am in the need of help.

My TS-830, in my care for 5 years, has decided in the past few days to stop transmitting. The last activity was the CQWW contest a few weeks back. The next time I tried using it, I got very little, to no power output. Now I get nothing, bias has even dropped to nothing, well only about 5-10ma, it had been sitting steady on 60ma, as the manual mentions without any problem.

I am guessing the tubes have died, and will need replacing?
I know they are 6146B's, and have checked on eBay and found 6146W's.
What are the differnce between these type? I did hear that the "B" are better?

One comment I received during the contest, was that he could hear a buzz on the TX. Might of been the start of it's death. :(

Any help of any sort would be grateful, wish to get the radio back working, and operating.

Regards
Kevin, ZL1KFM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11075. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 17:27:56 UTC
From: Chris HEmbree
Topic: 11024 Message: 11075

This is so cool the things you learn each day on this group.
Ok ,,, With the cal on. Looks like my VFO may be off. The marker starts at 7.098.5,14.098.5 and so on. I get 6db on 40,20,17,15 on a dummy load.
You maybe right about my rig. I am new to HF and I have more to learn. But it is fun. More fun than being a reapeater junky.
Have a great Thanksgiving Day to all.
Chris..

n9wb <n9wb@...> wrote: Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from 1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20.
thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a
weak signal. Then adjust L-20 clockwise past the peak and back CCW to the

peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11076. Re: [TS-520_820_530_830] Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 15:00:08 UTC
From: Another Old Codger
Topic: 11069 Message: 11076

I have said it before, but, a Kenwood engineer gave me a good piece of advice, check all the screws holding down the pcbs, especially those that make the ground connections. They work loose in time. Also, if the Instruction Manual is similar to the TS-530, the line up instructions included are more than adequate. The Technical Manual requires a lot of service equipment. Again, if it is the same, or similar as the TS-530, the T2 ??? that it says not to adjust controls the linearity of the S Meter, that does require a high quality calibrated Signal Generator.
73 Ron G8URU

----- Original Message -----
From: "mi_magic3" <mi_magic3@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, November 23, 2006 1:27 AM
Subject: [TS-520_820_530_830] Proud owner of a Kenwood TS-830S!!!

Hi all and thanks to the moderators of the group who allowed me to join. My Dad and step-brother recently gave me some awesome equipment that they are not using. Both are hams (as am I) and they are no longer active for a variatey of reasons. My step brother GAVE me his TS-830S, MFJ Bencher paddle with keyer, MFJ 300 watt dummy load, MC-50 Desk mic and Vectronics (MFJ) tuner and a Silver Eagle D-104 mic. My dad thru in a G5RV, and a REAL J-38 Key (I've had my eye on that for years, and he told me that in the 1950's those were sold at local Detroit area ham stores by the barrel for about 50 cents!!!) I've been to Dayton many times and seen J-38's for $100!!! Hard to believe a straight key fetches so much coin....anyways....

I have read the thread on smokey radios (along with the scientific explanation of why water does not cause corrosion, I AGREE!!) and have also seen that many people mentioned Deoxit for cleaning...

Both my Dad and step brother smoked around this radio and its smelly, and just from what I can tell by the few hours it has been on, very intermittent with regards to the volume knob. I would be interested to know some major areas to clean, how to clean the volume type pots, controls , etc. I'm fimiliar with radio disassembly to some degree, and have the service and owners manuals for this radio, (many thanks to Al Gore for inventing the internet! LOL). I like the Freebreeze idea with the plastic bag, thats going to be done for sure, along with an entire face/knob removal, but the guts inside have me concerned. Not sure I want to totally disassemble the radio as another fellow has mentioned doing...my 7 year old daughter and my wife will take issue to many nights in the basement...

If anyone has had similiar radio, I would be interested in knowing what major surgurey you did to get it smelling "spring time fresh", hell, I'll even go for the new plastic smell!! But that's pushing it...!!

Many thanks in advance, and Happy Thanksgiving to all...

vy 73

Dave N8HUL

11077. Re: [TS-520_820_530_830] Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 20:32:23 UTC
From: John Harp
Topic: 11069 Message: 11077

Salutations (Charloettes Web), and congratulations on a good start at a station. You've been handed some good choices of gaer for side-band and CW.

I have two 830's myself and the remote VFO 230, with it's 5 digital memories the matching SP 230 speaker and the mc-50 microphone with pc-1 phone patch. That's operational at present. I also have a straight key and a vibroplex along with two TV-506 transverters. I have a linear on a full-size, quarter-wave vertical out in the yard and a MFJ Versa Five tuner. Took me over 25 years to get this far. Your almost half the way there in one shot. You had more than I had when I started. But that's good. Now you got some catching up to do on the bands.
But we both have good gear and members of a good group for resources. I have more winter projects underway. I am working on a complete Kenwood station a piece at a time.

You are starting with a very good radio for your investment in Amteur station. One of the key points of ownership is to keep it clean in the back and it will last. These rigs have a good reputation over the last 30 years. If properly maintained could last 30 more.

As for G5RV, had two of them in the past. Good antenna. Some times they can be a little sharp to tune, but a good tuner gets you around that.

As for cleaning the 830, I recommend looking at the K4EAA website. Ken has some good bits of information there about these radios. Ken sevices and resores these radios on a regular basis. It's a good idea to know your radio inside well. That way when something goes wrong you've already got an idea about whats going on when you work inside.

As for cleaning, I'd recommend a good tuner cleaner. clean the insides with it and I use cottonswabs for tight places with alcohol. keeping the parts clean keeps the circuits from overheating and dying any earlier than it has to. I use fantatic, 409 or windex just for the cabinet tops and bottoms with paper towels for the cigarette residue and other crud. Do this away from the chassis itself. The faceplate comes off too. It's a couple of screws and pull the knobs. clean behind it. You'd be suprised at what gets in there. Watch what you spray around the plastic parts. Some cleaners will harm the surface of the pastic cases of your relay for example.

As a tuner cleaner I use CO Contact Cleaner because it leaves no the residue. Another is the Lectra clean. There are other good cleaners out there and others here in the group may recomend them. We all clean our radios. It pays to become intimate with the inside workings.

As for the Pots and switches. Spray the little slots on the front of the pots. The chemical gets in and you can rotate the wiper around to loosen the dirt. The swiches you can look for an opening to spray into and toggle them to loosen the dirt there too.

Ken has recommended a good lubricant on his website for the chain drives that uses Teflon. Leaves them silky smooth, works well.

As for the mic. don't spray it thru the screen. Maybe spray something you like the smell of on a rag and wipe the surface is about all.

Don't forget a drop of oil to the fan. It's a critical one to it's life.

Sometimes over the years some dirt builds in places where electrical contact is important. moisture in the air. Dirt and other contaminants get in there and cause undesired effects. sometimes the mic howls and this could resolve the issue. Backing off screws and retightening can improve a ground contact. Keeping those band swiches clean can mke a dfifference in reception too. When something doesn't seem logical as to it's cause in these radios, cleaning sometimes finds the answer.

Most of us that have had the 830's don't forget thier performance as we move on to other gear. Some part with them and wish they had it back. I prefer knobs and switches myself to menus and I don't mind tuning up after a change in frequency. My antenna is broad enough to sit in sections of the bands without retuning some controls. I designed them that way.

Enjoy your new found love and see you on the air. 73's.

mi_magic3 <mi_magic3@...> wrote:
Hi all and thanks to the moderators of the group who allowed me to join. My Dad and step-brother recently gave me some awesome equipment that they are not using. Both are hams (as am I) and they are no longer active for a variatey of reasons. My step brother GAVE me his TS-830S, MFJ Bencher paddle with keyer, MFJ 300 watt dummy load, MC-50 Desk mic and Vectronics (MFJ) tuner and a Silver Eagle D-104 mic. My dad thru in a G5RV, and a REAL J-38 Key (I've had my eye on that for years, and he told me that in the 1950's those were sold at local Detroit area ham stores by the barrel for about 50 cents!!!) I've been to Dayton many times and seen J-38's for $100!!! Hard to believe a straight key fetches so much coin....anyways....

I have read the thread on smokey radios (along with the scientific explanation of why water does not cause corrosion, I AGREE!!) and have also seen that many people mentioned Deoxit for cleaning...

Both my Dad and step brother smoked around this radio and its smelly, and just from what I can tell by the few hours it has been on, very intermittent with regards to the volume knob. I would be interested to know some major areas to clean, how to clean the volume type pots, controls , etc. I'm fimiliar with radio disassembly to some degree, and have the service and owners manuals for this radio, (many thanks to Al Gore for inventing the internet! LOL). I like the Freebreeze idea with the plastic bag, thats going to be done for sure, along with an entire face/knob removal, but the guts inside have me concerned. Not sure I want to totally disassemble the radio as another fellow has mentioned doing...my 7 year old daughter and my wife will take issue to many nights in the basement...

If anyone has had similiar radio, I would be interested in knowing what major surgurey you did to get it smelling "spring time fresh", hell, I'll even go for the new plastic smell!! But that's pushing it...!!

Many thanks in advance, and Happy Thanksgiving to all...

vy 73

Dave N8HUL

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11078. Re: [TS-520_820_530_830] New Member with a question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 20:38:24 UTC
From: John Harp
Topic: 11046 Message: 11078

Hi Dennis and welcome to the group.

The tube shield you speak of on the driver tube 12by7a is not a critical issue. As you can tell the previous operator used it without the shield and it works fine. A shield generally reduces the amount of interaction of other circuits magnetic fields. I use my 830's without the tube shields without a problem. I've talked to others and found the same thing. It originally came with the radio but didn't seem to have much affect upon it's performance.

Dennis <gizmotski@...> wrote:
Hello to the group. Just joined within the last two weeks, and have
been lurking and learning. Recently aquired a TS-520s, and TS-820s
both in excellent condition.(I am currently bunking in with the dog).
On the 820s the black tube sheild is missing from 12By7A tube. The
ground strap is still there. How important is the metal sheild on the
tube? I think I read somewhere on the some other radios they were
removed because of heat, but not sure. If it is a must I would think
it could be found or even made. Thanks and hello
dennis ve6ac

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11079. Re: [TS-520_820_530_830] TS-830M Low RX Audio and Good Sensitivity

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 20:42:52 UTC
From: John Harp
Topic: 11050 Message: 11079

OK well make sure you keep the contacts clean too. They'll make a difference in reception. Good luck with the 830M. I have 830S, good radios. We just recomend a good clean first as it often eliminates problems. I've even burnished a relay to solve a problem.

Giuseppe Bisesti <i8vye@...> wrote: Hi everybody,

i experienced a trouble i didn't yet find on the net. I post the solution i found for sake of experience sharing.

The ts830m is an european version of the rig whith am capability instead of narrow cw capability.

The symptom was audio very weak on SSB/CW rx but good sensitivity (smeter showed the right indications on cal position). On tx the monitor audio level was really ok. The audio level was also good on am rx.

A quick look at the schematics showed that in the rx section there is an additional board for am detection. The board is readily accessible simply removing the top rig cover.

During the ssb and cw reception that board is bypassed by a dpdt dil relay, while the signal coming from monitor detection circuitry is directly fed to the audio amp just after the am board.

So, the solution is very simple: substitute the relay. It's a commonly avalaible and cheap relay. So no reason, for me, to try to clean it. Simply substituted.

Hope all above of some interest for someone.

73's de i8vye/0 (Joe)

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11080. Re: [TS-520_820_530_830] TS530s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 20:55:04 UTC
From: John Harp
Topic: 11024 Message: 11080

As for the coupler, order that from Kens K4EAA website. They're brass instead of the ones you see in the radio but work well and will outlast the originals if installed correctly. There's no need to worry about interaction or shock with the couplers and the knob on the end. make sure you align the shaft correctly. See if the inductor will hold up for now. You might watch the heat you generate in the PA. Tuning correctly may help at this point by minimizing the stress on the parts; good airflow too.

Replace your tubes and neutralize. See what you get. Now you see why you look at the PA box and interior of the radio regularly.

rodgerbryce <gm3job@...> wrote:
Thanks to N9WB & KA3DPW for their input on my problems, based on
their advice and a more detailed examination, I have found the
following:

1. Resistors 2,3,4 & 5 appear to be alright visually, no signs of
any damage.

2.The bandswitch located within the PA compartment is not moving,
the inoming shaft is turning at the flexible coupler. I do not have
an allen key of the right size as yet to try and tighten the set
screws.(not surprising I blew a valve!)
Assuming I can tighten the existing or have to replace the coupler
how do I go about setting it all back up again??

3.At the bottom of the final choke within the PA compartment, there
is a 0.01uF capacitor which goes to ground and what appears to be
choke which goes to the 800v connection on the bottom side.I think
it is L1 a 6.8uh choke, it has been severely overheating judging by
the colour of it, green at the ends black in the middle, does anyone
know what sort of resistance value I should get through this??

Thanks in advance for any information.

73 de Rodger/GM3JOB

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11081. Re: Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 20:54:48 UTC
From: ve3tmt
Topic: 11069 Message: 11081

Hey Dave,

Welcome to the group. I recently acquired an 830 after a long time without one. I think I had one back in 1991 or so, shortly after I got my ticket. When I tell people I traded my TS850S for the 830 with matching SP230 speaker and AT230 tuner, they tell me I am crazy. But listening to the 830 it sounds every bit as good as the 850 did. I have since picked up the matching digital VFO-230. I don't mind tuning up, it only takes about 10 seconds and the transmit audio with my electret mic element is great.

First thing I do whenever I get a new piece of gear into the shack is remove the knobs, front panel and covers and give everything a thorough cleaning with mild dish soap. I soak the knobs for an hour or so to remove stains. By the time it goes back together it's looking new. It's fun and you learn a little bit about the gear at the same time and makes it a pleasure to show off in the shack.

Hope to hear you on the air sometime. Check out the KenwoodQSO group as well.

Max VE3TMT

11082. Re: New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-23 21:05:33 UTC
From: w5rkl
Topic: 11022 Message: 11082

If the meter is displaying 60ma of idle PA IP bias current in SSB transmit mode then the final tube filaments are ok plus there is high voltage on the final tube plates. Without high voltage on the plates, the tube will not conduct and there will be no 60ma of PA idle bias showing on the meter in the IP position. To be sure, you can check the HV on the HV power supply board as well as at the final tube plate caps. Remember, there is high voltage inside the radio that can be lethal and can kill you! SAFETY FIRST!!!

If the meter is displaying signal strength in receive but no HV in transmit, more than likely there is a problem in the HV meter switch position. The meter will only show HV when in transmit.

As for the capacitors showing a "bubble" and "leakage", there's no question, replace them. Diodes normally do not show any visual evidence of failure unless the voltage rating has been exceeded and they crack, brake apart or explode. Otherwise, checking them with an ohm meter is the only way to tell.

You should not be seeing ALC on the meter in "TUNE" or CW mode. In "TUNE" mode, the high voltage to the final amplifier tubes is reduced and there is no ALC voltage applied to the final amplifier tubes. In CW mode, the front panel CARRIER control controls the RF amplifier gain, not the ALC voltage. Normal sideband ALC indication will cause the meter to swing between 25 and 75% of the ALC meter scale, all based on the mic gain setting and how loud you are talking into the microphone and if the processor is turned on and the level at which it's set. Any ALC meter reading that exceeds the ALC meter scale is an indication of overmodulation which causes the final amplifier to no longer be linear producing splatter to adjacent frequencies.

For further information on the use of 6146 tubes use the following link

http://k9sth.com/Page_2.html

This link will provide you with a wealth of information about the 6146 final tubes.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia" <sparcnz@...> wrote:

>
> To Walt and John, and others
>
> Thanks for the information sent so far. I have updated information as requested.
>
> The voltage reading at "SG" on Final board is between 253-257VDC, so this appears to be correct as advised.
> The Driver is glowing when the heater is switched on. Can not see the 6146's if they are glowing.
> Bias is now back to giving me 60ma, but this is not all the time.
> When I switch to tune, and switch to ALC, I am able to get a good swing, and are able to peak the Driver.
> When switched to HV, I get no voltage reading, the meter does no swing. I thought I had it swing to around 600v on Tuesday, but not now.
>
> Did notice when looking at the underneath of the radio, looking at the 2 large caps, that one has a burn bubble on it, about 8-10mm diameter, the other appears to that it might have a bit of a leak. I guess these are the filter caps.
> The diodes look okay. Got a bit too dark in the shed to check with the meter if they are blown.
>
> Hope this helps with the questions asked from the 2 above persons.
>
> ? I notice that the valves in the radio are 6146B's, and I have been given a set of 6146. A bit of reading says it is not best to go back to 6146 if 6146B's are the standard valve used in the radio. I may just get a set (or 2) of 6146W.
>
> Again Thanks for the help and information.
>
> Kevin, ZL1KFM.
>
> Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, November 21, 2006 11:02 PM
> Subject: Re: [TS-520_820_530_830] New to Group - No Power Output
>
>
> Kevin:
> I doubt that it is the tubes. With your meter switch on HV what is your high voltage?
>
> It should be in the area of 800 V. If it is low like 400 V you

have bad High voltage filter capacitors C-22 and c-24 or a bad diode,
D1,D2,D3,D4.
>
> If the high voltage reads correctly, take the cover off of the
rig and measure the voltage at the point labeled SG on the bottom of
the final board. It should read a bit over 200 VDC.
>
> Use caution around the rectifier board, the capacitors, and the
transformer as well as inside of the final unit. There is 800 Volts
there.
>
> Does the rig get a normal ALC reading with the meter switch on
ALC when tuning up and peaking the drive control ?
>
> Let us know the results from the above.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 20, 2006 10:08 PM
> Subject: [TS-520_820_530_830] New to Group - No Power Output
>
> Hi All,
>
> Thanks to allowing me join this group.
>
> As a owner of a TS-830, I am glad to be able to find this group,
and
> hopefully help with advice, and also receive.
>
> Today, I am in the need of help.
>
> My TS-830, in my care for 5 years, has decided in the past few
days
> to stop transmitting. The last activity was the CQWW contest a
few
> weeks back. The next time I tried using it, I got very little, to
no
> power output. Now I get nothing, bias has even dropped to
nothing,
> well only about 5-10ma, it had been sitting steady on 60ma, as
the
> manual mentions without any problem.
>
> I am guessing the tubes have died, and will need replacing?
> I know they are 6146B's, and have checked on eBay and found
6146W's.
> What are the differnce between these type? I did hear that

the "B"
> are better?
>
> One comment I received during the contest, was that he could hear
a
> buzz on the TX. Might of been the start of it's death. :(
>
> Any help of any sort would be grateful, wish to get the radio
back
> working, and operating.
>
> Regards
> Kevin, ZL1KFM
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date:
11/20/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11083. Re: Web Site TRI-FLOW OILS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 03:00:44 UTC
From: catboat15@aol.com
Topic: 11031 Message: 11083

That info on the Tri-Flow with citrus reminds me of the saying that the USA is the only place in the world that uses real orange juice to polish furniture and drinks synthetic orange juice for breakfast.
De k6suf

[Non-text portions of this message have been removed]

11084. VFO 230 PROBLEM!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 10:07:02 UTC
From: m3snd
Topic: 11084 Message: 11084

Hi group i have connected up my 830 line up after a year in dry storage,and after a couple of days the vfo230 isnt playing ball.
It is connected with the supplied din cable which i have continuity checked to be ok
It powered up with the 830 but after a couple of days it started to give odd read outs on the digital display and on some frequencies it would jump 10Khz on tuning the vfo.
I fired it up today and there's no read out at all,regardless if its in vfo or main on the function section.
Its not properly in control of the 830 anymore,only the display on the 830 dissapears when i switch the vfo to vfo/rx and vfo/tx.
Disconected from the line up the 830 works perfectly as normal.
So a bit long winded i dont think ive left anything out so i ask my fellow enthusiasts if they have encountered any of these problems or know of any solutions.
Any constructive comments would be gratefully received.
KEV M3SND 73s

11085. Re: [TS-520_820_530_830] Re: TS-820S Transmit Problem - Update#2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 10:47:34 UTC
From: n9wb
Topic: 10950 Message: 11085

Point K:

The individual final board schematic shows two connections. They lead to the tube cathodes. the tube cathodes are in parallel so both K terminals are in parallel.
On the main schematic, these K points are not shown. I do not have a TS-820 to disassemble at this time, mine is at another location, but I suspect that these terminals do not exist on the actual board. This board may have been designed to use in other rigs as well, or used in an AM European version of some kind that was intended to have AM and was never marketed.

In the next couple of weeks I will have my 820 apart and will check for connections to these K points. If there are connections, I need to document where they go.

To check the cathode circuit, measure across R2 or R3 with an ohm meter while in the circuit, rig off of course. Since these are in parallel, the combined value should read 5 ohms.

If I remember, you had R2 and R3 short, but tested the finals in a 520 and they worked OK. Another problem that can cause this is If you lost control grid bias.

When you get things back together, build a light bulb tester. Fire up the rig with the filaments off. Turn it on and observe the light bulb. In normal operation, the light bulb will get very bright for an instant when the filaments are turned on and then dim back down as they warm up. If the tube starts drawing excessive current, the light bulb will get bright. Turn the rig off.

If the above checks out OK, key the rig on SSB with the mike gain down and observe the meter in IP. See if you can get 60 ma idle bias.

Let us know what you find from the above.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 4:46 PM
Subject: [TS-520_820_530_830] Re: TS-820S Transmit Problem - Update#2

Steve,
I have studied the Schematic and I don't believe there is a K at all in the Schematic. I don't know why it shows on the Diagram . In fact, I find NO other K at all.

Perhaps Walt can help us out here. I don't have an 820 here in front
of me to check out.

Gordon

-- In TS-520_820_530_830@yahoogroups.com, "Stephen Davis" <sdavis@...>
wrote:
>
> Hello All,
>
> I have replaced the screen and cathode resistors. Both cathode
> resistors (R2 and R3) were open. The screen resistors were okay, but
> replaced them anyway. I have not fired up the rig yet as I am still not
> sure what caused the resistors to open. As stated in my last
update, the
> tubes checked good when I tried them in my TS-530, so I think that
rules out
> the tubes as the culprit.
>
> In looking at the Final Board circuit diagram, I see a point
marked "K"
> at the edge of the diagram. On the Final Board PC layout, there is
no point
> "K" that I can see. I think "K" stands for cathode. Does anyone
know what
> is on the other side of point "K"? On the large overall schematic,
there is
> no point "K" shown in the final section. Sorry if that is
confusing. Here
> is what I am thinking... One side of R2 and R3 is grounded. It
looks like
> the other side is connected to pins 1,4, and 6 of the finals and to
point K.
> So it does not seem like much can go wrong on the final board
itself, except
> for a shorted tube, which I don't think is the case. So I am
thinking the
> problem must lie beyond point "k", but don't know how to find it on the
> schematic.
>
> I don't have a lot of experience, so it the above assumption is
wrong,
> incomplete, or way out in left field, please don't hesitate to
correct me!!
> Any help or suggestions appreciated.
>
> Thanks
>
> Steve K7QHU
>
> _____

>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Stephen Davis
> Sent: Thursday, November 16, 2006 11:30 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] TS-820S Transmit Problem - Update#1
>
>
>
> Walt and John,
>
> Thanks for your reply's. I did not get a chance to pick up the
> resistors today. However, I wanted to make some progress, so I
decided to
> take the tubes from the 820 that we suspected might be shorted and
try them
> in my TS-530. I had check the tubes for shorts after reading Walt's
primer
> in the archives and found no shorts. The finals by the way are the
original
> S2001A's. Anyway, I put them into the TS-530, hooked up the dummy
load and
> powered up. I let the tubes warm up for about 5 minutes. I check the
bias
> and it was a little high, so I adjusted to 60ma. I then went through the
> tune-up procedure, keeping a wary eye on the rig. The rig tuned up
fine and
> I was getting full output on 40 meters. I spent about ten minutes,
using a
> CW key to send into the dummy load every so often. The tubes seem to be
> okay. Didn't want to run for too long as I did not want to
neutralize them
> in the 530. So, it seems the problem is not with the finals, which
is kind
> of disappointing because this means there is a more difficult problem to
> track down. My next step will be to check the tube sockets for any
shorts.
> Any other suggestions would be welcome.
>
> Thanks
>
> Steve K7QHU
>
> _____
>
> From: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> [mailto:TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com] On Behalf Of John Harp
> Sent: Thursday, November 16, 2006 5:27 PM

> To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com
> Subject: Re: [TS-520_820_530_830] TS-820S Transmit Problem
>
> Stephen, after you replace the resistors with the proper wattage and
value,
> try to to use a different pair of tubes that are known to be good.
>
> Stephen Davis <sdavis@beachnet. <mailto:sdavis%40beachnet.com> com>
wrote:
> Hello All,
>
> I picked up a Kenwood TS-820S a couple of weeks ago and was told that
> it would not transmit. I finally had a chance this evening to take a
look
> at it. I fired it up, hooked it to a dummy load and let it warm up.
After
> about 5 minutes, I went through the tune-up procedure and sure
enough, no
> output. The meter showed I did have 60ma of bias and about 850 volts
HV. I
> unplugged it, took the covers off and had a look. First thing I
noticed was
> that the cathode and screen resistors looked new. Visual inspection
did not
> turn up any obvious problems. Next I took a look at the transmit
relay and
> it looked okay. I then plugged in the power cord, and turned the
radio on.
> Heaters on all three tubes were glowing. I put the function switch into
> tune mode and flipped the xmit switch and observed that the transmitter
> relay was opening and closing as I went from receive to transmit and
back
> again. I then decided to go through the tune-up procedure again. I
put the
> mode switch to CW and the xmit/receive switch to xmit. I got
distracted for
> a couple of seconds and turned away from the radio. As I turned back
> towards the radio, I heard three distinct "pops" and saw three blue
flashes
> come from the xmit board. After coming back down from the ceiling (it
> really startled me!!) I unplugged the radio and took a look. R3 (10
ohm, 1
> watt) had pits in it were little pieces had apparently been blown
out of it!
> R2, R5, and R6 looked okay. I plan to replace all four of these (need to
> make a trip to Radio Shack tomorrow).
>
> But, before I replace the resistors, I need help in figuring out what
> is causing the resistor(s) to blow. I am thinking a bad final tube, but

> would appreciate any thoughts the group might have on this or any
> troubleshooting tips.
>
> Thanks,
>
> Steve K7QHU
>
> [Non-text portions of this message have been removed]
>

11086. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 11:02:26 UTC
From: n9wb
Topic: 11024 Message: 11086

I'd say that your rig is OK. What we need is some better band conditions. Vy 73, Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

This is so cool the things you learn each day on this group.
Ok ,,, With the cal on. Looks like my VFO may be off. The marker starts at 7.098.5,14.098.5 and so on. I get 6db on 40,20,17,15 on a dummy load.
You maybe right about my rig. I am new to HF and I have more to learn. But it is fun. More fun than being a reapeater junky.
Have a great Thanksgiving Day to all.
Chris..

n9wb <n9wb@...> wrote: Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from 1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20.

thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.14/547 - Release Date: 11/22/06

[Non-text portions of this message have been removed]

11087. Re: [TS-520_820_530_830] Re: New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 11:18:42 UTC
From: n9wb
Topic: 11022 Message: 11087

I would like to clarify something.
The screen voltage, not the plate voltage to the final tube is reduced in the tune mode. The ALC will read on CW and tune. The carrier control controls the drive to the finals and the ALC is derived from there. For CW operation, After tuning up with the carrier control fully up, reduce it until the power just starts to drop. Now the ALC will read 0 or very low. If you are operating SSB, just leave the carrier control fully up as it does not affect SSB and it will be ready for the next tune up.
Please put the model of rig in the subject line. It makes this thread easier to follow.

Vy 73, Walt N9WB

----- Original Message -----
From: w5rkl
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 4:05 PM
Subject: [TS-520_820_530_830] Re: New to Group - No Power Output

If the meter is displaying 60ma of idle PA IP bias current in SSB transmit mode then the final tube filaments are ok plus there is high voltage on the final tube plates. Without high voltage on the plates, the tube will not conduct and there will be no 60ma of PA idle bias showing on the meter in the IP position. To be sure, you can check the HV on the HV power supply board as well as at the final tube plate caps. Remember, there is high voltage inside the radio that can be lethal and can kill you! SAFETY FIRST!!!

If the meter is displaying signal strength in receive but no HV in transmit, more than likely there is a problem in the HV meter switch position. The meter will only show HV when in transmit.

As for the capacitors showing a "bubble" and "leakage", there's no question, replace them. Diodes normally do not show any visual evidence of failure unless the voltage rating has been exceeded and they crack, brake apart or explode. Otherwise, checking them with an ohm meter is the only way to tell.

You should not be seeing ALC on the meter in "TUNE" or CW mode.
In "TUNE" mode, the high voltage to the final amplifier tubes is reduced and there is no ALC voltage applied to the final amplifier tubes. In CW mode, the front panel CARRIER control controls the RF amplifier gain, not the ALC voltage. Normal sideband ALC indication will cause the meter to swing between 25 and 75% of the ALC meter scale, all based on the mic gain setting and how loud you are talking into the microphone and if the processor is turned on and the level at which it's set. Any ALC meter reading that exceeds the ALC meter scale is an indication of overmodulation which causes the final

amplifier to no longer be linear producing splatter to adjacent frequencies.

For further information on the use of 6146 tubes use the following link

http://k9sth.com/Page_2.html

This link will provide you with a wealth of information about the 6146 final tubes.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia" <sparcnz@...> wrote:
>
> To Walt and John, and others
>
> Thanks for the information sent so far. I have updated information as requested.
>
> The voltage reading at "SG" on Final board is between 253-257VDC, so this appears to be correct as advised.
> The Driver is glowing when the heater is switched on. Can not see the 6146's if they are glowing.
> Bias is now back to giving me 60ma, but this is not all the time.
> When I switch to tune, and switch to ALC, I am able to get a good swing, and are able to peak the Driver.
> When switched to HV, I get no voltage reading, the meter does no swing. I thought I had it swing to around 600v on Tuesday, but not now.
>
> Did notice when looking at the underneath of the radio, looking at the 2 large caps, that one has a burn bubble on it, about 8-10mm diameter, the other appears to that it might have a bit of a leak. I guess these are the filter caps.
> The diodes look okay. Got a bit too dark in the shed to check with the meter if they are blown.
>
> Hope this helps with the questions asked from the 2 above persons.
>
> ? I notice that the valves in the radio are 6146B's, and I have been given a set of 6146. A bit of reading says it is not best to go back to 6146 if 6146B's are the standard valve used in the radio. I may just get a set (or 2) of 6146W.
>
> Again Thanks for the help and information.
>
> Kevin, ZL1KFM.

>
> Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, November 21, 2006 11:02 PM
> Subject: Re: [TS-520_820_530_830] New to Group - No Power Output
>
>
> Kevin:
> I doubt that it is the tubes. With your meter switch on HV what
is your high voltage?
>
> It should be in the area of 800 V. If it is low like 400 V you
have bad High voltage filter capacitors C-22 and c-24 or a bad diode,
D1,D2,D3,D4.
>
> If the high voltage reads correctly, take the cover off of the
rig and measure the voltage at the point labeled SG on the bottom of
the final board. It should read a bit over 200 VDC.
>
> Use caution around the rectifier board, the capacitors, and the
transformer as well as inside of the final unit. There is 800 Volts
there.
>
> Does the rig get a normal ALC reading with the meter switch on
ALC when tuning up and peaking the drive control ?
>
> Let us know the results from the above.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 20, 2006 10:08 PM
> Subject: [TS-520_820_530_830] New to Group - No Power Output
>
> Hi All,
>
> Thanks to allowing me join this group.
>
> As a owner of a TS-830, I am glad to be able to find this group,
and
> hopefully help with advice, and also receive.
>
> Today, I am in the need of help.
>

> My TS-830, in my care for 5 years, has decided in the past few
days
> to stop transmitting. The last activity was the CQWW contest a
few
> weeks back. The next time I tried using it, I got very little, to
no
> power output. Now I get nothing, bias has even dropped to
nothing,
> well only about 5-10ma, it had been sitting steady on 60ma, as
the
> manual mentions without any problem.
>
> I am guessing the tubes have died, and will need replacing?
> I know they are 6146B's, and have checked on eBay and found
6146W's.
> What are the differnce between these type? I did hear that
the "B"
> are better?
>
> One comment I received during the contest, was that he could hear
a
> buzz on the TX. Might of been the start of it's death. :(
>
> Any help of any sort would be grateful, wish to get the radio
back
> working, and operating.
>
> Regards
> Kevin, ZL1KFM
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date:
11/20/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.14/548 - Release Date: 11/23/06

[Non-text portions of this message have been removed]

11088. Re: [TS-520_820_530_830] Re: New to Group - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 10:08:01 UTC
From: Dave and Loraine
Topic: 11022 Message: 11088

"You should not be seeing ALC on the meter in "TUNE" or CW mode"

ALC is active in both modes. Did you mean ' ...should be seeing...'?.

73 Dave F4EYK

11089. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 13:49:30 UTC
From: Chris HEmbree
Topic: 11024 Message: 11089

Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
Chris..

n9wb <n9wb@...> wrote: I'd say that your rig is OK. What we need is some better band conditions. Vy 73, Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

This is so cool the things you learn each day on this group.
Ok ,,, With the cal on. Looks like my VFO may be off. The marker starts at 7.098.5,14.098.5 and so on. I get 6db on 40,20,17,15 on a dummy load.
You maybe right about my rig. I am new to HF and I have more to learn. But it is fun. More fun than being a reapeater junky.
Have a great Thanksgiving Day to all.
Chris..

n9wb <n9wb@...> wrote: Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from

1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20. thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.14/547 - Release Date: 11/22/06

[Non-text portions of this message have been removed]

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11090. Re: Marker Signal Calibration

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 15:13:01 UTC
From: Rick
Topic: 11024 Message: 11090

Hi Chris,

You are looking for zero beat with the marker signal for both USB and LSB ... My 830S shows between S2 and S3 level on my meter for zero beat for either sideband tuned to 18.100 and just under S9 at 18.098.5 with a 1.5khz tone using USB..

Rick KC0HH

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...> wrote:
>
> Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
> Chris..
>

11091. Re: [TS-520_820_530_830] VFO 230 PROBLEM!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 16:11:40 UTC
From: John Harp
Topic: 11084 Message: 11091

Kevin,

I hav ean 830 with the VFO like you. Mine does similar things. usually a reset is all it takes to clear mine. So try this.

First, make sure the VFO connector is plugged in correctly. Sometimes mine gets a little loose form moving around behind my gear for adjustments or adding something.

Second, make sure the buttons are set for main. This will allow the 830 to operate from it's own VFO and not the 5 memories or the remote tuner. Set it for main.

Third, leave the TS-830 powered up, but unplug the power cord to the wall. Power to the radio and no power to the VFO. This is the reset I spoke of. Leave it down momentarily. Then plug it back in and see how it responds. It should reset itself at this point.

At this point after the reset, you should be able to see it work on the 830 and the 830 can set its own frequency. If this is so, the buttons VFO should now be able to change to remote. When this is done you should be able to see the display on both show the same frequency. After that check as your manual instructs on how to store a frequency and bring it back.

You have 5 memories. As long as power is to the unit you will retain those stored frequencies. Power is lost for any kind of a period of time, even milliseconds the stored are gone. It's volatile RAM is what this is. That's how the remote should operate.

Go try it and see how it works and get back to me with the results.

John-KA3DPW

m3snd <m3snd@...> wrote:
Hi group i have connected up my 830 line up after a year in dry
storage,and after a couple of days the vfo230 isnt playing ball.
It is connected with the supplied din cable which i have continuity
checked to be ok
It powered up with the 830 but after a couple of days it started to
give odd read outs on the digital display and on some frequencies it
would jump 10Khz on tuning the vfo.
I fired it up today and there's no read out at all,regardless if its in
vfo or main on the function section.
Its not properly in control of the 830 anymore,only the display on the
830 dissapears when i switch the vfo to vfo/rx and vfo/tx.
Disconected from the line up the 830 works perfectly as normal.
So a bit long winded i dont think ive left anything out so i ask my
fellow enthusiasts if they have encountered any of these problems or
know of any solutions.
Any constructive comments would be gratefully received.
KEV M3SND 73s

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11092. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 16:24:11 UTC
From: John Harp
Topic: 11024 Message: 11092

Hey wait'll the bands get better. You rather stay on HF than repeater any time I found when I checked repeaters out. They were ok but HF is more interesting to me. Soon I'll add VHF SSB&CW to my 830 and find out what that's like.

Enjoy.

n9wb <n9wb@...> wrote:
I'd say that your rig is OK. What we need is some better band conditions. Vy 73, Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

This is so cool the things you learn each day on this group.
Ok ,,, With the cal on. Looks like my VFO may be off. The marker starts at 7.098.5,14.098.5 and so on. I get 6db on 40,20,17,15 on a dummy load.
You maybe right about my rig. I am new to HF and I have more to learn. But it is fun. More fun than being a reapeater junky.
Have a great Thanksgiving Day to all.
Chris..

n9wb <n9wb@...> wrote: Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from 1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20. thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did

it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house
payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one
year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.14/547 - Release Date: 11/22/06

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11093. TS-520SE Rehabilitation

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 16:32:42 UTC
From: baumbrent
Topic: 11093 Message: 11093

I have just finished replacing the 10 meter crystals in my 520SE.
However, digging around inside my rig has left me with a few questions.

First, do I need to retune the coils for the 10 meter band (I undid an
11 meter mod)?

Second, whoever did the 11 meter mod did a real kludge of a job when
soldering in the 11 meter crystals - he burned the pads off the pc
board! Will bridging from the original pad location to the next solid
pad in the trace create a significant capacitance between the lead
from the crystal and the remaining trace?

Third, I noticed that the air variable capacitors on the drive control
don't seem to line up. When the center capacitor is all the way open
the other two still have a few degrees of rotation left in them. Is
this normal or should all three hit the stop at the same time?

The two biggest surprises in doing this work (besides the burned board)
were the huge spider's nest back by the power supply, and discovering
after the fact that I didn't have to disassemble the whole front
chassis to get the oscillator board out (there's actually little holes
for the rods to slide through). Oh well, the rig just got a more
through cleaning than it might have otherwise.

Thanks and 73,
K7MEI, Brent

11094. Re: Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 14:54:04 UTC
From: mi_magic3
Topic: 11069 Message: 11094

Salutations to you too!!! My daughter's favorite book BTW!... Well I appreciate everyones comments and suggestions...right now the rig is sitting on the bench here in the shace parked on 7.258 with a hunk of wire connected to the antenna connector. I love MIDCARS!....

Just to let you know, this is NOT my first rig. I've been ham since 1978 and got my ticket in the glory days of the FCC field offices!! Technician ticket in Detroit, and upgraded to General in Dallas Texas, and finally did a VEC exam for the Advanced class ticket. I think I'll just stay with that, the Extra Class ticket has lost its luster in my hummble opinion. I hope to park the 830 along side my FT-847 and be able to work Sattelites and HF!!

Hopefully this winter will afford the time to get the shack back in order and do some work on the bands.

Thanks again all, all the information here is saving me a lot of time.

vy 73

Dave N8HUL

11095. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 16:59:23 UTC
From: Chris HEmbree
Topic: 11024 Message: 11095

I have been a repeater junky for about 20 years. I love HF. It's like going from a internet modem to DSl. Can't go back.
But I do Have a IRLP station at home.
Chris..73"s

John Harp <ka3dpw@...> wrote: Hey wait'll the bands get better. You rather stay on HF than repeater any time I found when I checked repeaters out. They were ok but HF is more interesting to me. Soon I'll add VHF SSB&CW to my 830 and find out what that's like.

Enjoy.

n9wb <n9wb@...> wrote:
I'd say that your rig is OK. What we need is some better band conditions. Vy 73, Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

This is so cool the things you learn each day on this group.
Ok ,,, With the cal on. Looks like my VFO may be off. The marker starts at 7.098.5,14.098.5 and so on. I get 6db on 40,20,17,15 on a dummy load.
You maybe right about my rig. I am new to HF and I have more to learn. But it is fun. More fun than being a reapeater junky.
Have a great Thanksgiving Day to all.
Chris..

n9wb <n9wb@...> wrote: Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from 1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20. thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB
----- Original Message -----
From: w7cth

To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.14/547 - Release Date: 11/22/06

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11096. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 18:25:28 UTC
From: Graham Ridgeway
Topic: 11024 Message: 11096

On Fri, 24 Nov 2006 05:49:30 -0800 (PST), you wrote:

>Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
>Chris..

The 'apparent' frequency of the Cal marker depends on which mode you look at it on.

The 520 has 3 'markers' for frequency on its dial dependant on mode.

73 Graham M5AAV

11097. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 18:34:01 UTC
From: Chris HEmbree
Topic: 11024 Message: 11097

My Rig Is a TS-830S
Chris..

Graham Ridgeway <m5aav@...> wrote: On Fri, 24 Nov 2006 05:49:30 -0800 (PST), you wrote:

>Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
>Chris..

The 'apparent' frequency of the Cal marker depends on which mode you
look at it on.

The 520 has 3 'markers' for frequency on its dial dependant on mode.

73 Graham M5AAV

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11098. Re: VFO 230 PROBLEM!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 19:51:36 UTC
From: m3snd
Topic: 11084 Message: 11098

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>Hi John thanks for the reply, well i tried everything you suggested
but no luck, so then on a limb i thought i would check the fuse in
the mains 13A plug.
This checked out ok but it looked like it had been in there some
time so i cleaned up the ends and put it back in.
connected it up to the mains and just like that the display came up.
I switched in the vfo/rx+vfo/tx buttons and the readout was 0.0;
RESET.
So we are back in business thanks to you.
I was under the impression that the mains connection was just for
the memory bank as the VFO gets its power from the 830.
Anyway its working and i will save this email for if it happens
again.
Thanks again John i like using the vfo as without the vfo on the 830
its tune is too coarse.
All the best from England and 73's

Kev M3SND
> Kevin,
>
> I hav ean 830 with the VFO like you. Mine does similar things.
usually a reset is all it takes to clear mine. So try this.
>
> First, make sure the VFO connector is plugged in correctly.
Sometimes mine gets a little loose form moving around behind my gear
for adjustments or adding something.
>
> Second, make sure the buttons are set for main. This will
allow the 830 to operate from it's own VFO and not the 5 memories or
the remote tuner. Set it for main.
>
> Third, leave the TS-830 powered up, but unplug the power cord
to the wall. Power to the radio and no power to the VFO. This is the
reset I spoke of. Leave it down momentarily. Then plug it back in
and see how it responds. It should reset itself at this point.
>
> At this point after the reset, you should be able to see it
work on the 830 and the 830 can set its own frequency. If this is
so, the buttons VFO should now be able to change to remote. When
this is done you should be able to see the display on both show the
same frequency. After that check as your manual instructs on how to
store a frequency and bring it back.
>

> You have 5 memories. As long as power is to the unit you will
retain those stored frequencies. Power is lost for any kind of a
period of time, even milliseconds the stored are gone. It's volatile
RAM is what this is. That's how the remote should operate.
>
> Go try it and see how it works and get back to me with the
results.
>
> John-KA3DPW
>
> m3snd <m3snd@...> wrote:
> Hi group i have connected up my 830 line up after a year
in dry
> storage,and after a couple of days the vfo230 isnt playing ball.
> It is connected with the supplied din cable which i have
continuity
> checked to be ok
> It powered up with the 830 but after a couple of days it started
to
> give odd read outs on the digital display and on some frequencies
it
> would jump 10Khz on tuning the vfo.
> I fired it up today and there's no read out at all,regardless if
its in
> vfo or main on the function section.
> Its not properly in control of the 830 anymore,only the display on
the
> 830 dissapears when i switch the vfo to vfo/rx and vfo/tx.
> Disconected from the line up the 830 works perfectly as normal.
> So a bit long winded i dont think ive left anything out so i ask
my
> fellow enthusiasts if they have encountered any of these problems
or
> know of any solutions.
> Any constructive comments would be gratefully received.
> KEV M3SND 73s
>
>
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11099. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 18:58:45 UTC
From: Graham Ridgeway
Topic: 11024 Message: 11099

On Fri, 24 Nov 2006 10:34:01 -0800 (PST), Chris HEmbree
<w7cth@...> wrote:

>My Rig Is a TS-830S
>Chris..
>
>Graham Ridgeway <m5aav@btinternet.com> wrote: On Fri, 24 Nov 2006 05:49:30 -0800 (PST),
you wrote:
>
> >Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
> >Chris..
>
> The 'apparent' frequency of the Cal marker depends on which mode you
> look at it on.
>
> The 520 has 3 'markers' for frequency on its dial dependant on mode.
>
Appreciated Chris.

So does the Cal minimise out at 18.098.5 on one sideband 18.105.5 on
the other and 18.100 excatly on CW

If so - then you have no problem.

Doubtless a bigger eggspert will be along on a minite

73 Graham M5AAV

11100. Re: [TS-520_820_530_830] Re: VFO 230 PROBLEM!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 22:19:41 UTC
From: John Harp
Topic: 11084 Message: 11100

Yes I remember I was confused by that very same thing when I first got mine. That's why I elaborated a little. So you would better understand the machine function.

I keep memories loaded with 5 spots to monitor a band quickly by jumping from frequency to another. Come in handy for split transieve too. Enjoy and see you on the air.

m3snd <m3snd@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>Hi John thanks for the reply, well i tried everything you suggested
but no luck, so then on a limb i thought i would check the fuse in
the mains 13A plug.
This checked out ok but it looked like it had been in there some
time so i cleaned up the ends and put it back in.
connected it up to the mains and just like that the display came up.
I switched in the vfo/rx+vfo/tx buttons and the readout was 0.0;
RESET.
So we are back in business thanks to you.
I was under the impression that the mains connection was just for
the memory bank as the VFO gets its power from the 830.
Anyway its working and i will save this email for if it happens
again.
Thanks again John i like using the vfo as without the vfo on the 830
its tune is too coarse.
All the best from England and 73's

Kev M3SND
> Kevin,
>
> I hav ean 830 with the VFO like you. Mine does similar things.
usually a reset is all it takes to clear mine. So try this.
>
> First, make sure the VFO connector is plugged in correctly.
Sometimes mine gets a little loose form moving around behind my gear
for adjustments or adding something.
>
> Second, make sure the buttons are set for main. This will
allow the 830 to operate from it's own VFO and not the 5 memories or
the remote tuner. Set it for main.
>
> Third, leave the TS-830 powered up, but unplug the power cord
to the wall. Power to the radio and no power to the VFO. This is the
reset I spoke of. Leave it down momentarily. Then plug it back in
and see how it responds. It should reset itself at this point.
>
> At this point after the reset, you should be able to see it

work on the 830 and the 830 can set its own frequency. If this is
so, the buttons VFO should now be able to change to remote. When
this is done you should be able to see the display on both show the
same frequency. After that check as your manual instructs on how to
store a frequency and bring it back.
>
> You have 5 memories. As long as power is to the unit you will
retain those stored frequencies. Power is lost for any kind of a
period of time, even milliseconds the stored are gone. It's volatile
RAM is what this is. That's how the remote should operate.
>
> Go try it and see how it works and get back to me with the
results.
>
> John-KA3DPW
>
> m3snd <m3snd@...> wrote:
> Hi group i have connected up my 830 line up after a year
in dry
> storage,and after a couple of days the vfo230 isnt playing ball.
> It is connected with the supplied din cable which i have
continuity
> checked to be ok
> It powered up with the 830 but after a couple of days it started
to
> give odd read outs on the digital display and on some frequencies
it
> would jump 10Khz on tuning the vfo.
> I fired it up today and there's no read out at all,regardless if
its in
> vfo or main on the function section.
> Its not properly in control of the 830 anymore,only the display on
the
> 830 dissapears when i switch the vfo to vfo/rx and vfo/tx.
> Disconected from the line up the 830 works perfectly as normal.
> So a bit long winded i dont think ive left anything out so i ask
my
> fellow enthusiasts if they have encountered any of these problems
or
> know of any solutions.
> Any constructive comments would be gratefully received.
> KEV M3SND 73s
>
>
>
>
>
>
>
> ~~~~~~

> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11101. Re: [TS-520_820_530_830] Re: Proud owner of a Kenwood TS-830S!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 22:29:36 UTC
From: John Harp
Topic: 11069 Message: 11101

Yes I remember those days. Dreamin of bein a ham. Ham Radio Club in high school. Got my liscence by mail exam for novice then. WB3KLE administered the test then. On the air CW Live was how I got my code. 5 imutes perfect copy as I remember it. Best way to test, do the real thing.

Within one year I bought my first HF transciever It was my TS-830. The first one bought it when the company I worked for bought my vacation back from me. That was a tough year.

Ran that rtadio for almost 30 years and bought a second one. Luv'em. Don't wanna part with'em either. Got many matching accessories too. Even VHF.Enjoy, I've wondered what it'd be like to have one pool side. someday maybe. Later 73's.

mi_magic3 <mi_magic3@...> wrote:
Salutations to you too!!! My daughter's favorite book BTW!... Well
I appreciate everyones comments and suggestions...right now the rig
is sitting on the bench here in the shace parked on 7.258 with a hunk
of wire connected to the antenna connector. I love MIDCARS!....

Just to let you know, this is NOT my first rig. I've been ham since
1978 and got my ticket in the glory days of the FCC field offices!!
Technician ticket in Detroit, and upgraded to General in Dallas
Texas, and finally did a VEC exam for the Advanced class ticket. I
think I'll just stay with that, the Extra Class ticket has lost its
luster in my hummble opinion. I hope to park the 830 along side my FT-
847 and be able to work Sattelites and HF!!

Hopefully this winter will afford the time to get the shack back in
order and do some work on the bands.

Thanks again all, all the information here is saving me a lot of time.

vy 73

Dave N8HUL

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11102. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 22:44:39 UTC
From: John Harp
Topic: 11024 Message: 11102

Yes I have echolink here. It's fun but I like HF more. All those bands and things changing makes it more interesting. I still want to see what the transverters will do too.

Chris HEmbree <w7cth@...> wrote: I have been a repeater junky for about 20 years. I love HF. It's like going from a internet modem to DSl. Can't go back.
But I do Have a IRLP station at home.
Chris..73"s

John Harp <ka3dpw@...> wrote: Hey wait'll the bands get better. You rather stay on HF than repeater any time I found when I checked repeaters out. They were ok but HF is more interesting to me. Soon I'll add VHF SSB&CW to my 830 and find out what that's like.

Enjoy.

n9wb <n9wb@...> wrote:
I'd say that your rig is OK. What we need is some better band conditions. Vy 73, Walt N9WB
----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 23, 2006 12:27 PM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

This is so cool the things you learn each day on this group.
Ok ,,, With the cal on. Looks like my VFO may be off. The marker starts at 7.098.5,14.098.5 and so on. I get 6db on 40,20,17,15 on a dummy load.
You maybe right about my rig. I am new to HF and I have more to learn. But it is fun. More fun than being a reapeater junky.
Have a great Thanksgiving Day to all.
Chris..

n9wb <n9wb@...> wrote: Chris:
The marker signal is on the Mike gain control Turn it fully down until it clicks and the rig will transmit a signal every 25 kHz. Tune the marker at a 100 kHz point on 20, 17. and 15 meters.

Tune in the marker on 21.100. Use USB. Tune for maximum S-meter reading. Tune the drive control for maximum S meter reading.
Now, do the same thing on 18.100.
Now do the same thing on 14.100.
Now do the same thing on 7.100.

Do this with a dummy load attached or no antenna attached. It will probably read highest on 7.100 and weaken slightly as you go up in frequency.

I ma thinking that you do not have a rig problem. The higher H.F. bands have been very dead lately as we are at the sunspot minimum. Background noise is much lower as you go up in frequency. Probably, you have nothing wrong on 17 meters.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 22, 2006 9:14 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

I am not 100% sure if I have a problem with 17m. On 40 and 20m I always have a noise floor from 4-6 dB. On 17m I have a noise floor of o dab all the time. I hear stations on 17m from 1-6 dab. I have a bigg steppIR Vert. antenna. The SWR is very good on all bands.I have not done the marker signal. I need to read the book to learn how to do this.It would be nice if my 520 had 17m to use as a signal gen. Peaking for a weak signal on 17m with the band going in and out so fast will be fun. I have never adjusted the 18 MHz coils only L-19 and L-20. thanks..
Chris..

n9wb <n9wb@...> wrote: It should not make any difference what band you are on as it is in the IF.
However, to be sure, on 17 meters, try peaking L-19 for maximum receive on a weak signal. Then adjust L-20 clockwise past the peak and back CCW to the peak. Re-peak L-19 until it peaks and then adjust L-20 clockwise past the peak and then back ccw to the peak.

Repeat the above until no improvement is obtained.

If 17 meters is still weaker, see if peaking the Drive control for maximum receive brings it to the proper level. If it does, is this different than the position of the drive control for maximum ALC on CW transmit ?

If readjusting the Drive control does not help, are you sure the receive sensitivity is low or could it be band conditions or your antenna ? How does the marker signal level compare between 20 meters, 17 meters, and 15 meters? Use a 100 kHz point on each band for comparison. Tune in the marker for maximum. Also peak the drive for maximum receive. Use a dummy load when checking this. If a dummy load is not available, disconnect the antenna lead.

Have you ever adjusted the 18 MHz coils on the coil pack board ? If so, they may not be adjusted properly. If you have not adjusted them, I would suggest that you do not until we investigate further.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 9:32 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

TS-830S

n9wb <n9wb@...> wrote: What rig?
N9WB

----- Original Message -----
From: w7cth
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 8:36 AM
Subject: [TS-520_820_530_830] Diode mod on IF board

Way back when we all did the 4 diode and load resistor mod on the IF board.When we had to make the 600mvp-p ajustment on USB and LSB. Did it care what band you were on?

I don't have the same RX on 17m as I do on 40 and 20m band.
Chris..

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

Sponsored Link

Rates near 39yr lows. $510,000 Loan for $1698/mo - Calculate new house payment

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.11/543 - Release Date: 11/20/06

Sponsored Link

Get an Online or Campus degree - Associate's, Bachelor's, or Master's -in less than one year.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.12/545 - Release Date: 11/21/06

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.14/547 - Release Date: 11/22/06

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11103. Re: [TS-520_820_530_830] TS-520SE Rehabilitation

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 22:41:32 UTC
From: John Harp
Topic: 11093 Message: 11103

Brent,

I don't know if you need to readjust the 10 meter coils but I'd say probably not. No way to tell for sure until you turn on the radio. If the mod were known to have a re-tune then that would probably answer the question. If they didn't retune it then you shouldn't have to either.

Alot of the CB people have little or no technical expertise. Not suprising about the pads and traces. To much heat. Lifts foils and burns them. Probably ok to use the substitution you've described. But again only one way to tell, when it turns on.

Take it on the air and see how it performs. listen in. then load it into a dummy load and see how it does. then call and find a signal report.

As for the caps. probably not a problem.

baumbrent <brentbaum5323@...> wrote:
I have just finished replacing the 10 meter crystals in my 520SE.
However, digging around inside my rig has left me with a few questions.

First, do I need to retune the coils for the 10 meter band (I undid an
11 meter mod)?

Second, whoever did the 11 meter mod did a real kludge of a job when
soldering in the 11 meter crystals - he burned the pads off the pc
board! Will bridging from the original pad location to the next solid
pad in the trace create a significant capacitance between the lead
from the crystal and the remaining trace?

Third, I noticed that the air variable capacitors on the drive control
don't seem to line up. When the center capacitor is all the way open
the other two still have a few degrees of rotation left in them. Is
this normal or should all three hit the stop at the same time?

The two biggest surprises in doing this work (besides the burned board)
were the huge spider's nest back by the power supply, and discovering
after the fact that I didn't have to disassemble the whole front
chassis to get the oscillator board out (there's actually little holes
for the rods to slide through). Oh well, the rig just got a more
through cleaning than it might have otherwise.

Thanks and 73,
K7MEI, Brent

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11104. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 22:24:03 UTC
From: Chris HEmbree
Topic: 11024 Message: 11104

With Cal on.
18.101.5 LSB
18.098.5 USB
18.099.0 CW.W
Chris..

Graham Ridgeway <m5aav@...> wrote: On Fri, 24 Nov 2006 10:34:01 -0800 (PST), Chris HEmbree
<w7cth@...> wrote:

>My Rig Is a TS-830S
>Chris..
>
>Graham Ridgeway <m5aav@...> wrote: On Fri, 24 Nov 2006 05:49:30 -0800 (PST), you wrote:
>
> >Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
> >Chris..
>
> The 'apparent' frequency of the Cal marker depends on which mode you
> look at it on.
>
> The 520 has 3 'markers' for frequency on its dial dependant on mode.
>
Appreciated Chris.

So does the Cal minimise out at 18.098.5 on one sideband 18.105.5 on
the other and 18.100 excatly on CW

If so - then you have no problem.

Doubtless a bigger eggspert will be along on a minite

73 Graham M5AAV

Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

11105. Re: [TS-520_820_530_830] Diode mod on IF board

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-25 00:42:44 UTC
From: Rick KC0HH
Topic: 11024 Message: 11105

Hi Chris,

Are those freqs you listed for max signal strength on your marker signal? My 830S shows about S8.5 at those you listed. To check your VFO calibration you are looking for zero beat not max or minimum meter reading. If you check at 18.100 you should be zero beat with the S meter at about S3 .... Turn your VFO just past 18.099.9 and zero beat should occur as soon as your display turns to 18.100.00 If your carrier oscillators are set up correctly you should be able to switch back and forth between USB/LSB and be zero beat on either sideband without touching your VFO.
Find an AM station on 40 meters tonight. There is a BBC broadcast at 7.160 that is usually very strong here after dark for instance. The AM station should sound exactly the same on either sideband if they are set up correctly.

73' Rick KC0HH

Chris HEmbree <w7cth@...> wrote: With Cal on.
18.101.5 LSB
18.098.5 USB
18.099.0 CW.W
Chris..

Graham Ridgeway <m5aav@...> wrote: On Fri, 24 Nov 2006 10:34:01 -0800 (PST), Chris HEmbree <w7cth@...> wrote:

>My Rig Is a TS-830S
>Chris..
>
>Graham Ridgeway <m5aav@...> wrote: On Fri, 24 Nov 2006 05:49:30 -0800 (PST), you wrote:
>
> >Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
> >Chris..
>
> The 'apparent' frequency of the Cal marker depends on which mode you
> look at it on.
>
> The 520 has 3 'markers' for frequency on its dial dependant on mode.
>
Appreciated Chris.

So does the Cal minimise out at 18.098.5 on one sideband 18.105.5 on
the other and 18.100 excatly on CW

If so - then you have no problem.

Doubtless a bigger eggspert will be along on a minite

73 Graham M5AAV

Sponsored Link

Don't quit your job - take classes online and earn your degree in 1 year. Start Today

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11106. No ALC in TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-24 22:05:16 UTC
From: Karl Schwab
Topic: 11106 Message: 11106

Gentlemen; Last week, I decided to pull the old '520 off of the shelf where it has been setting for about 10 years and put it on the air. At first, I had no ALC, but in moving the "SG" slide switch on the rear panel, my ALC returned and the rig was on the air working DX and getting great reports. Later in the week I again fired up the rig, and again, no ALC. This time wiggling and moving the SG switch did nothing. Years ago, I had this same problem, but it was rare, and the ALC always returned with a wiggling of the SG switch. But, not this time.

I checked the SG switch with my Ohm meter, even jumpered it, still nothing. I removed the relay from its socket under the VOX board, checked its contacts for continuity with my Ohm meter while working its armature manually and all was well there. I did not know if the relay was part of the ALC circuit, but it being a mechanical component, I thought that I would give it a try.

I do not have a service manual, only the owners manual and now I am stuck and I hope that this Group can help me out. Any ideas fellas? 73, de KO8S, Karl

---
Want to start your own business?
Learn how on Yahoo! Small Business.
http://smallbusiness.yahoo.com/r-index

11107. test

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-25 01:14:31 UTC
From: wb4mnk
Topic: 5784 Message: 11107

test

11108. Re: TS-520SE Rehabilitation

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-25 03:51:51 UTC
From: Clif
Topic: 11093 Message: 11108

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
<brentbaum5323@...> wrote:
>
> I have just finished replacing the 10 meter crystals in my 520SE.
> However, digging around inside my rig has left me with a few questions.
>
> First, do I need to retune the coils for the 10 meter band (I undid an
> 11 meter mod)?
>
> Second, whoever did the 11 meter mod did a real kludge of a job when
> soldering in the 11 meter crystals - he burned the pads off the pc
> board! Will bridging from the original pad location to the next solid
> pad in the trace create a significant capacitance between the lead
> from the crystal and the remaining trace?
>
> Third, I noticed that the air variable capacitors on the drive control
> don't seem to line up. When the center capacitor is all the way open
> the other two still have a few degrees of rotation left in them. Is
> this normal or should all three hit the stop at the same time?
>
> The two biggest surprises in doing this work (besides the burned board)
> were the huge spider's nest back by the power supply, and discovering
> after the fact that I didn't have to disassemble the whole front
> chassis to get the oscillator board out (there's actually little holes
> for the rods to slide through). Oh well, the rig just got a more
> through cleaning than it might have otherwise.
>
> Thanks and 73,
> K7MEI, Brent
>

It will have to be retuned and you can't just do 10m. On the 520S & SE
160 is tuned first then 10m, 15m, 20m, 40m, 80m. If you don't do them
in order it won't work right.

The extra capacitance won't hurt anything, just get it all hooked up
correctly and adjust the Osc coils. I've had to go straight to the
switch contacts before due to Chicken Charlie mods.

The three variables need to bee in the same position. Do this before
aligning it or you get to align it again.

On alignment I use the marker for the Rx side and peak the s-meter and
turn off the SG switch and read ALC for the Tx side. Make sure there
is a 50 ohm dummy load attached to the ant connection or it will throw
off the alignment.

You actually need a scope to set the oscillators, max level and then back out 1/4 turn.

Clif

11109. Checking frequency Calibration on TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-25 08:05:08 UTC
From: n9wb
Topic: 11109 Message: 11109

Checking frequency Calibration on TS-830

Marker off.
VBT Fully clockwise. (Normal)
IF shift center.
Notch Off
RIT off
USB
Go to 10.000 MHz. at a time when you can hear WWV. Tune the rig for max receive of WWV. Now carefully listen and tune WWV switching between USB then LSB until you are at the point where WWV sounds as much the same as possible on USB and LSB. The digital readout should read 10.0000.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 24, 2006 8:49 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
Chris..

11110. Re: [TS-520_820_530_830] Checking frequency Calibration on TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-25 15:16:02 UTC
From: Chris HEmbree
Topic: 11109 Message: 11110

OK , Thank you.
I wil try this.
Chris.

n9wb <n9wb@...> wrote: Checking frequency Calibration on TS-830

Marker off.
VBT Fully clockwise. (Normal)
IF shift center.
Notch Off
RIT off
USB
Go to 10.000 MHz. at a time when you can hear WWV. Tune the rig for max
receive of WWV. Now carefully listen and tune WWV switching between USB
then LSB until you are at the point where WWV sounds as much the same as
possible on USB and LSB. The digital readout should read 10.0000.

Vy 73, Walt N9WB

----- Original Message -----
From: Chris HEmbree
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, November 24, 2006 8:49 AM
Subject: Re: [TS-520_820_530_830] Diode mod on IF board

Is My VFO out of Cal if my marker is at 18.098.5 and not at 18.100?
Chris..

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11111. Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-25 16:27:16 UTC
From: Darwin, Keith
Topic: 11111 Message: 11111

Can we post TS-830 related ads here or is it forbidden?

- Keith N1AS -

[Non-text portions of this message have been removed]

11112. Re: No ALC in TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 01:01:10 UTC
From: james27613
Topic: 11106 Message: 11112

hi Karl,

manuals here, http://n6wk.com/kenwood/

thanks to n6wk !

73 james ke4dɪn

11113. Display light dims/brightens w_5 watt loss/gain in power reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 03:18:44 UTC
From: Valued Customer
Topic: 11113 Message: 11113

Greetings group, long time no chat!

Re: TS-520

I've notice that my dial lights dim and brighten, while losing and gaining (respectively)about five watts, according to the power meter.

This happens only during transmit or tuning.

Nothings changed that I know of and I've re-tuned it to verify all settings are correct. Still puts out over 100w nicely, but I thought I'd ask before something got worse. I haven't found anything regarding this, but there's a lot of messages to sort through. If you know of a previous thread, please advise.

Any ideas?

Frank, K2NCC

11114. TS-520s VFO

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 02:56:36 UTC
From: eagle_602000
Topic: 11114 Message: 11114

I just found this group today and think it is great.

I am using a TS-520s at our local EOC, and it works well with one exception. The VFO spinner knob seems very loose to me. Is there an adjustment to apply more friction to the mechanism? I haven't located one yet. also when the rig is set to a partiicular frequency, if the VFO knob is moved in any way, the frequency shifts. It appears there may be wear in the bushing on the VFO.

Any suggestions?

73,
Jimmy, W9JDH

11115. Re: [TS-520_820_530_830] Display light dims/brightens w_5 watt loss/gain in power reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 06:46:39 UTC
From: Max Harelik
Topic: 11113 Message: 11115

" I've notice that my dial lights dim and brighten, while losing and gaining (respectively) about five watts, according to the power meter.This happens only during transmit or tuning." <snip>

Check your primary power. Stay away from extension cords, overloading the circuit, bad power plugs/outlets/juncton boxes. These radios use serious current on transmit.

73,
Max, K5OVW

11116. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 07:50:14 UTC
From: n9wb
Topic: 11111 Message: 11116

For sale ads:

The opening statement on the home page states "Please do not post for sale ads here". We do allow posts by individuals who have an occasional rig for sale on the "KenwoodQSO" group.

Now might be a good time to ask, how the group members feel about this?
Should we keep the policy as is, "No for sale posts." or should we allow occasional posts by individuals who have gear directly to Kenwood Hybrids, with the restriction that interested buyers contact the buyer directly, not on the forum.

Vy 73, Walt N9WB

----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 25, 2006 11:27 AM
Subject: [TS-520_820_530_830] Are "for sale" ads allowed?

Can we post TS-830 related ads here or is it forbidden?

- Keith N1AS -

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.15/550 - Release Date: 11/24/06

[Non-text portions of this message have been removed]

11117. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 08:24:59 UTC
From: Jeff May
Topic: 11111 Message: 11117

Allow hybrid only posts...W0XV
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 1:50 AM
Subject: Re: [TS-520_820_530_830] Are "for sale" ads allowed?

For sale ads:

The opening statement on the home page states "Please do not post for sale ads here". We do allow posts by individuals who have an occasional rig for sale on the "KenwoodQSO" group.

Now might be a good time to ask, how the group members feel about this?
Should we keep the policy as is, "No for sale posts." or should we allow occasional posts by individuals who have gear directly to Kenwood Hybrids, with the restriction that interested buyers contact the buyer directly, not on the forum.

Vy 73, Walt N9WB

----- Original Message -----
From: Darwin, Keith
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, November 25, 2006 11:27 AM
Subject: [TS-520_820_530_830] Are "for sale" ads allowed?

Can we post TS-830 related ads here or is it forbidden?

- Keith N1AS -

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.15/550 - Release Date: 11/24/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11118. Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 08:41:10 UTC
From: Valued Customer
Topic: 11111 Message: 11118

Personally, I think it would be fine. I wouldn't be bothered by it. Much better to do what hams do, horse-trade, than to give eBay the money. Maybe allowing only ham-related items would be ideal. Keeping to the same guidelines as found on-the-air.

The flip-side to that argument is that there are plenty of free places to put your item up for sale.

Maybe a good balance would be that items posted for sale must be Kenwood hybrid 520/820/530/830 related? If it isn't one or doesn't work with one, don't post it.

That would keep to the theme and limit the amount of for-sales in the forum.

Maybe do a Yahoo group Poll.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
...
> Now might be a good time to ask, how the group members feel about this? ...

11119. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 08:44:20 UTC
From: Peter A Markavage
Topic: 11111 Message: 11119

You probably would have to define "occasional posts". Interpretation left
to the reader can be widely varied.

Pete, wa2cwa

On Sun, 26 Nov 2006 02:50:14 -0500 "n9wb" <n9wb@...> writes:
> For sale ads:
>
> The opening statement on the home page states "Please do not post
> for sale ads here". We do allow posts by individuals who have an
> occasional rig for sale on the "KenwoodQSO" group.
>
> Now might be a good time to ask, how the group members feel about
> this?
> Should we keep the policy as is, "No for sale posts." or should we
> allow occasional posts by individuals who have gear directly to
> Kenwood Hybrids, with the restriction that interested buyers contact
> the buyer directly, not on the forum.
>
> Vy 73, Walt N9WB

11120. Re: Display light dims/brightens w_5 watt loss/gain in power reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 08:49:31 UTC
From: Valued Customer
Topic: 11113 Message: 11120

Good points, but I think I found it. The one thing that did change is that I put a space-heater on the same surge-protector that the radio is on. It's been stable since removing the heater from the line, but I'll keep an eye on it and inquire again if changing things doesn't help. Just wanted to make sure that I got the problem before smoke came out of the radio! 8)

Meanwhile, in a slightly unrelated question, if the antenna gives me a 5:1 SWR in the Through position (of the AT-230 tuner) but can tune fine (1:1) in the Matching, am I losing power to the antenna when using the tuner? The antenna tunes nicely w/the tuner, but I'm under the impression that SWR isn't the end-all. Efficiency is lost if the antenna must be tuned that much, right?

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...> wrote:
>
> Check your primary power. Stay away from extension cords, overloading ... Max, K5OVW

11121. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 09:25:51 UTC
From: n9wb
Topic: 11111 Message: 11121

I Agree, Walt
----- Original Message -----
From: Peter A Markavage
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 3:44 AM
Subject: Re: [TS-520_820_530_830] Are "for sale" ads allowed?

You probably would have to define "occasional posts". Interpretation left
to the reader can be widely varied.

Pete, wa2cwa

11122. Re: [TS-520_820_530_830] SWR, and Re: Display light dims/brightens w_5 watt loss/gain in power reading

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 09:29:17 UTC
From: n9wb
Topic: 11122 Message: 11122

Frank, Which antenna is it and on which band? When you have SWR on the coax, coax losses increase. That is where the loss comes from. At 5:1 the loss would not be way high but higher than say 3:1.

I'd say that the heater is your culprit.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 3:49 AM
Subject: [TS-520_820_530_830] Re: Display light dims/brightens w_5 watt loss/gain in power reading

Good points, but I think I found it. The one thing that did change is
that I put a space-heater on the same surge-protector that the radio
is on. It's been stable since removing the heater from the line, but
I'll keep an eye on it and inquire again if changing things doesn't
help. Just wanted to make sure that I got the problem before smoke
came out of the radio! 8)

Meanwhile, in a slightly unrelated question, if the antenna gives me a
5:1 SWR in the Through position (of the AT-230 tuner) but can tune
fine (1:1) in the Matching, am I losing power to the antenna when
using the tuner? The antenna tunes nicely w/the tuner, but I'm under
the impression that SWR isn't the end-all. Efficiency is lost if the
antenna must be tuned that much, right?

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, Max Harelik <mharelik@...>
wrote:
>
> Check your primary power. Stay away from extension cords,
overloading ... Max, K5OVW

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.15/550 - Release Date: 11/24/06

[Non-text portions of this message have been removed]

11123. re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 09:36:57 UTC
From: Valued Customer
Topic: 11122 Message: 11123

> Frank, Which antenna is it...

Cobra Ultralite Jr.
http://www.k1jek.com/

>... and on which band?

40 meter. 20 meter is even worse. But all bands will tune to less
than 2:1. Just seems like something isn't right, in spite of being
tunable. The maker of the Cobra says it requires a tuner, which I can
understand for a multiband antenna, and in some cases (like 60m) it's
a very nice 1:1 w/o the tuner. I'm about to move the antenna about 10
feet up (painting the house) and I'll do a SWR curve to check it
across the bands then. I think it was a great replacement to my
four-legged dipole tuned to 20/40, but seemed to have sacrificed
efficiency, if I understand correctly.

>... When you have SWR on the coax

If it makes a difference, it's a 450 ladder line w/a 4-1 balun. From
what I understand, that should be a low-loss choice.

> I'd say that the heater is your culprit.

Yup, nailed it!

73. Frank, K2NCC

11124. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 09:25:16 UTC
From: Dave and Loraine
Topic: 11111 Message: 11124

Hi Walt,
My opinion: Occasional 'for sale' posts OK provided that price is included.
73 Dave F4EYK

11125. Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 09:44:50 UTC
From: digs4ruff
Topic: 11111 Message: 11125

Walt
Personally I would like to be able to have an opportunity to purchase equipment from a Kenwood lover rather than Fleabay. If you recall I came into my TS-510 thru an ad on this forum. I made a new Ham friend only 20 miles away and inherited his project that he was unable to complete. I got a radio I could not afford to buy and he got to know his project would be completed and not sent to the landfill.
I would think a maximum one listing per month would suffice to allow individuals to pass on their unwanted or unused equipment.
regards
Barry

--- In TS-520_820_530_830@...m, "n9wb" <n9wb@...> wrote:
>
> For sale ads:
>
> The opening statement on the home page states "Please do not post for sale ads here". We do allow posts by individuals who have an occasional rig for sale on the "KenwoodQSO" group.
>
> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we allow occasional posts by individuals who have gear directly to Kenwood Hybrids, with the restriction that interested buyers contact the buyer directly, not on the forum.
>
> Vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: Darwin, Keith
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, November 25, 2006 11:27 AM
> Subject: [TS-520_820_530_830] Are "for sale" ads allowed?
>
>
> Can we post TS-830 related ads here or is it forbidden?
>
> - Keith N1AS -
>
> [Non-text portions of this message have been removed]

>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.15/550 - Release Date:
11/24/06
>
>
> [Non-text portions of this message have been removed]
>

11126. Re: [TS-520_820_530_830] re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 09:56:48 UTC
From: n9wb
Topic: 11122 Message: 11126

Frank:
If I get this right, you are feeding it with ladder line. I believe that you have a balun at the back of the Kenwood tuner with a short piece of coax between the balun and the tuner?
If so don't sweat it. The initial loss on ladder line is so low that the multiplied loss is very low also. My statement about loss applied to coax.

Should be a good system.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 4:36 AM
Subject: [TS-520_820_530_830] re: am I losing power/efficiency to the antenna when...

> Frank, Which antenna is it...

Cobra Ultralite Jr.
http://www.k1jek.com/

>... and on which band?

40 meter. 20 meter is even worse. But all bands will tune to less
than 2:1. Just seems like something isn't right, in spite of being
tunable. The maker of the Cobra says it requires a tuner, which I can
understand for a multiband antenna, and in some cases (like 60m) it's
a very nice 1:1 w/o the tuner. I'm about to move the antenna about 10
feet up (painting the house) and I'll do a SWR curve to check it
across the bands then. I think it was a great replacement to my
four-legged dipole tuned to 20/40, but seemed to have sacrificed
efficiency, if I understand correctly.

>... When you have SWR on the coax

If it makes a difference, it's a 450 ladder line w/a 4-1 balun. From
what I understand, that should be a low-loss choice.

> I'd say that the heater is your culprit.

Yup, nailed it!

73. Frank, K2NCC

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date: 11/25/06

[Non-text portions of this message have been removed]

11127. Re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 10:29:41 UTC
From: Valued Customer
Topic: 11122 Message: 11127

> If I get this right, you are feeding it with ladder line. I believe that you have a balun at the back of the Kenwood tuner with a short piece of coax between the balun and the tuner?

You are correct on all counts regarding the setup.

> If so don't sweat it. The initial loss on ladder line is so low that the multiplied loss is very low also. My statement about loss applied to coax.

I might be a bit unclear on what the difference between initial loss and multiplied loss is though.

> Should be a good system.

That's good to hear. Wish I could get the ends up higher tho'. Apex of the antenna will be at about 25' but the inverted-V ends of the Cobra will only be at five feet. I'm thinking about laying that inverted-V on it's side by angling it across the roof. Or, at least, one of the legs across the roof (off the roof surface, of course) and the other leg staying at it's fence-high level.

f

11128. Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 10:25:12 UTC
From: Valued Customer
Topic: 11111 Message: 11128

Sounds good, but I don't like the once-a-month thing. Makes for extra work for the admin. Abuse would be dealt with, but there should be no limits other than limiting it to the forum theme.

IMHO.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...> wrote:
> I would think a maximum one listing per month would suffice to allow
> individuals to pass on their unwanted or unused equipment.
> regards
> Barry

11129. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 10:41:33 UTC
From: Graham Ridgeway
Topic: 11111 Message: 11129

On Sun, 26 Nov 2006 02:50:14 -0500, "n9wb" <n9wb@...> wrote:

>For sale ads:
>
>The opening statement on the home page states "Please do not post for sale ads here". We do allow posts by individuals who have an occasional rig for sale on the "KenwoodQSO" group.
>
>Now might be a good time to ask, how the group members feel about this?
>Should we keep the policy as is, "No for sale posts." or should we allow occasional posts by individuals who have gear directly to Kenwood Hybrids, with the restriction that interested buyers contact the buyer directly, not on the forum.
>
Personally I see no harm in carrying both For Sale and Wanted Ads, as
long as they are purely for or related to, the specified equipment and
do not run into the realms of 'stock lists'.

I certainly agree that any responses should be offlist.

We do need to keep these rigs both 'running' and in the hands of those
who care.

Why not give it a month or so's trial ?

73 Graham M5AAV

11130. Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 12:46:13 UTC
From: n9wb
Topic: 11122 Message: 11130

Antenna feedline has a loss figure per 100 ft. This is calculated when terminated at it's characteristic impedance, with RG-8U that is around a pure resistance value of 50 ohms. with 450 ohm line this is around a pure resistance of 450 ohms.

The loss of balanced line is very much lower than that of coax. However, the loss in good coax is so low that it is not important when terminated with an impedance near 50 ohms. This will produce close to a 1:1 SWR.

When the SWR increases significantly on a coaxial line, the losses multiply by a number increasing as the SWR increases. So, for example, if you feed an 80 meter dipole on 40 meters using a tuner, the SWR will be in excess of 10:1. The tuner will transform the values that will be unfriendly to your rig to a nice 50 ohms non-reactive value that the transmitter will be happy with. But as the signal travels up the coax much of it will be lost as heat. What remaining 40 meter power reaches the 80 meter dipole will be radiated very efficiently, but the power available at this point will be reduced significantly depending on the length of the coax.

When the SWR increases on a balanced line such as 450 ohm ladder line, the losses also multiply by a number increasing as the SWR increases. But the loss of balanced line that is terminated by a pure resistance of it's characteristic resistance is much lower that of coax.

Even though the loss of coax is significantly higher than balanced line, the loss is negligible when terminated with a complex impedance near it's characteristic impedance. (low SWR)

The loss of balanced line is greatly lower than coax. While this difference is insignificant at low SWR, the difference becomes greatly significant when the SWR is high. A small number multiplied by a small number is far less than a larger number multiplied by a number of equal or greater amount.

So even with a high SWR, balanced line provides a relatively low loss path from the tuner/balun to the antenna feed point. On the other hand, with a high SWR coax provides a terrible loss path from the tuner to the antenna feed point if it is very long. (15 ft or more).

So the initial loss for a given line is that loss when it is terminated in a complex impedance near it's characteristic impedance. (low SWR)
The multiplied loss it the actual loss when terminated with a complex impedance removed from it's characteristic impedance. (high SWR)

So the loss of a length of good balanced line to a mismatch will be so low that it is negligible compared to that of a coax feeding the same mismatch.

It is not important that a simple antenna be resonant from an efficiency standpoint except for line loss.

One contradiction to this is that as an antenna becomes shorter than 1/4 wave on each side of the feedline, efficiency decreases slightly until it reaches 1/8 wave on each side of the feedline. Then the losses increase rapidly due to lowered radiation resistance that approaches the ohmic value of the radiating hardware. But that is a totally different topic. The bottom line is that a 40 meter dipole fed with balanced line will have about 1/2 S unit loss on 80 meters.

This Cobra antenna that you have chosen does not present a perfect match on all bands, but compared to other balanced line fed dipoles, provides a relatively lower mismatch lowering the losses of the balanced line a bit more. 5 to 1 is a lot better than 20 to 1.

The G5RV does the same thing except that it requires a coax section. This has always bothered me with this design because on some bands there will be notable loss in the coax section.

The disadvantage of this antenna compared to a parallel resonant dipole is that you must adjust the tuner when changing bands. This problem aside, it will be a good antenna. It will be even better when you elevate the feedpoint.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 5:29 AM
Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

> If I get this right, you are feeding it with ladder line. I believe
that you have a balun at the back of the Kenwood tuner with a short
piece of coax between the balun and the tuner?

You are correct on all counts regarding the setup.

> If so don't sweat it. The initial loss on ladder line is so low that
the multiplied loss is very low also. My statement about loss applied
to coax.

I might be a bit unclear on what the difference between initial loss
and multiplied loss is though.

> Should be a good system.

That's good to hear. Wish I could get the ends up higher tho'. Apex
of the antenna will be at about 25' but the inverted-V ends of the
Cobra will only be at five feet. I'm thinking about laying that
inverted-V on it's side by angling it across the roof. Or, at least,
one of the legs across the roof (off the roof surface, of course) and
the other leg staying at it's fence-high level.

f

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date: 11/25/06

[Non-text portions of this message have been removed]

11131. Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 14:16:46 UTC
From: ve3tmt
Topic: 11111 Message: 11131

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we
allow occasional posts by individuals who have gear directly to
Kenwood Hybrids, with the restriction that interested buyers contact
the buyer directly, not on the forum.

Walt,

Personally I see nothing wrong as long as the equipment being offered
relates to this group. And I agree all correspondence thereafter
should be conducted off-board.

That's my take on the matter.

Max VE3TMT

11132. Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 14:16:17 UTC
From: John Wilson
Topic: 11132 Message: 11132

I would like sale ads only if for items that are for kenwood radios and accessories of proper vintage.
thanks for the great site It helps those of us who are working to keep our radios as good as new.
John

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11133. Re: [TS-520_820_530_830] Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 15:43:03 UTC
From: Ruben Echevarria
Topic: 11111 Message: 11133

2 ways to do this either create a new group dedicated to the sale of Kenwood Hybrids or allow them in
this group. Personally I wouldn't mind seeing "For Sale" items here. If it gets to be too much then create
the " TS520,530,820, 830 For Sale Group " ...

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: ve3tmt <ve3tmt@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 9:16:46 AM
Subject: [TS-520_820_530_830] Re: Are "for sale" ads allowed?

--- In TS-520_820_530_ 830@yahoogroups. com, "n9wb" <n9wb@...> wrote:

> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we
allow occasional posts by individuals who have gear directly to
Kenwood Hybrids, with the restriction that interested buyers contact
the buyer directly, not on the forum.

Walt,

Personally I see nothing wrong as long as the equipment being offered
relates to this group. And I agree all correspondence thereafter
should be conducted off-board.

That's my take on the matter.

Max VE3TMT

[Non-text portions of this message have been removed]

11134. Re: For Sale Ads...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 13:51:01 UTC
From: Steve
Topic: 11134 Message: 11134

I agree fs ads should be allowed. I have been searching for an 830s everywhere, including other listserves...seems strange that here, the most logical place, does not allow ads of interest to the group.

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

11135. Re: [TS-520_820_530_830] Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 15:52:06 UTC
From: Chris HEmbree
Topic: 11111 Message: 11135

I would like this to. Only Hybrids that are on this group.Hams are looking for Hybrids to restore. Because they are sorry that they sold there radio that they had for something new. Chris.

ve3tmt <ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:

> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we
allow occasional posts by individuals who have gear directly to
Kenwood Hybrids, with the restriction that interested buyers contact
the buyer directly, not on the forum.

Walt,

Personally I see nothing wrong as long as the equipment being offered
relates to this group. And I agree all correspondence thereafter
should be conducted off-board.

That's my take on the matter.

Max VE3TMT

Sponsored Link

$420,000 Mortgage for $1,399/month - Think You Pay Too Much For Your Mortgage? Find Out!

[Non-text portions of this message have been removed]

11136. Re:Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 15:09:42 UTC
From: Walter Treftz
Topic: 11132 Message: 11136

I see no problem with Kenwood for sale postings. Would like to see them as
am looking for a couple accessories to my 830S.
73
Walt (N4GL)

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11137. Re:Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 16:20:49 UTC
From: Bill Wilkinson
Topic: 11111 Message: 11137

Well Why not.
I think it would be fine to post "For Sale" and "Wanted" ads. I would suggest that they be limited to Kenwood only. equipment.
Go for it.
Bill Wilkinson

[Non-text portions of this message have been removed]

11138. RE: [TS-520_820_530_830] Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 15:30:31 UTC
From: Walter Milton
Topic: 11111 Message: 11138

Allow hybrid only posts and contact the seller directly ... My two cents!

Walt., KA2NJF
Psalm 1
A child of the Living God

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Valued Customer
Sent: Sunday, November 26, 2006 3:41 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Are "for sale" ads allowed?

Personally, I think it would be fine. I wouldn't be bothered by it.
Much better to do what hams do, horse-trade, than to give eBay the
money. Maybe allowing only ham-related items would be ideal. Keeping
to the same guidelines as found on-the-air.

The flip-side to that argument is that there are plenty of free places
to put your item up for sale.

Maybe a good balance would be that items posted for sale must be
Kenwood hybrid 520/820/530/830 related? If it isn't one or doesn't
work with one, don't post it.

That would keep to the theme and limit the amount of for-sales in the
forum.

Maybe do a Yahoo group Poll.

Frank, K2NCC

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
...
> Now might be a good time to ask, how the group members feel about
this? ...

[Non-text portions of this message have been removed]

11139. TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 15:53:34 UTC
From: cprocny
Topic: 11139 Message: 11139

Hello to All
I'm new in this group, recently upgraded to General and purchased a TS-820S XCVR which works fine but it puts out ~100W in CW. I wonder if this is an indication that I should start thinking on replace the final tubes. The manual calls for S2001 tubes which I think are obsolete. Is there any drop-in replacement for those tubes?

73 de Marcelo N2YHQ

11140. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 16:00:42 UTC
From: jsloss
Topic: 11111 Message: 11140

It should be appropriate to allow ads pertaining to hybrid equipment including accesssories.

Joe k7mks

[Non-text portions of this message have been removed]

11141. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 17:16:40 UTC
From: N6WK
Topic: 11111 Message: 11141

Walt,
That would work for me as long as it was an occasional ad and
DIRECTLY related to the Hybrids only.
Tha'ts my input. It's really up to Bill and you however.

Gordon

n9wb wrote:

> For sale ads:
>
> The opening statement on the home page states "Please do not post for
> sale ads here". We do allow posts by individuals who have an
> occasional rig for sale on the "KenwoodQSO" group.
>
> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we
> allow occasional posts by individuals who have gear directly to
> Kenwood Hybrids, with the restriction that interested buyers contact
> the buyer directly, not on the forum.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Darwin, Keith
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, November 25, 2006 11:27 AM
> Subject: [TS-520_820_530_830] Are "for sale" ads allowed?
>
> Can we post TS-830 related ads here or is it forbidden?
>
> - Keith N1AS -
>
>
>
>

[Non-text portions of this message have been removed]

11142. Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:17:44 UTC
From: digs4ruff
Topic: 11142 Message: 11142

In some parts I recently acquired are a quantity of
Sprague 93Z20 V7052
Photo has been uploaded to VA7GEM folder
http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/view/4cc6?
b=22
Anyone know what this is?
thanks
Barry

11143. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:15:03 UTC
From: John Harp
Topic: 11111 Message: 11143

I feel an occasional notation of a kenwood hybrid or it's accessory is ok. I am in agreement with Walt in statement that we just don't want a swap section here. Perhaps a better channel of communications for thye group should be found for that sort of thing. Aplace where parts could be found, sold or swapped as well as Kenwood Tube Hybrid Radios and related accessories for the Kenwood Tube Hybrids and not limited from after market products or mods being thus related to these Kenwood Tube Hybrid Radios. These items being the subject of interest to the group.

Obviously few would want to see a swap shop where the group communicates, no more than The QSO group was to announce on the original group or the mics channel.

Perhaps it would be would be a good idea to have a place where the members of the group could post for sale or wanted for other members to look when they are searching.

You've asked for groups opinions? Well there's my persay. Thank you and I respectfully forwarded it when you've asked. Thank you for it. John. KA3DPW

N6WK <n6wk@...> wrote:
Walt,
That would work for me as long as it was an occasional ad and
DIRECTLY related to the Hybrids only.
Tha'ts my input. It's really up to Bill and you however.

Gordon

n9wb wrote:

> For sale ads:
>
> The opening statement on the home page states "Please do not post for
> sale ads here". We do allow posts by individuals who have an
> occasional rig for sale on the "KenwoodQSO" group.
>
> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we
> allow occasional posts by individuals who have gear directly to
> Kenwood Hybrids, with the restriction that interested buyers contact
> the buyer directly, not on the forum.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Darwin, Keith
> To: TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>
> Sent: Saturday, November 25, 2006 11:27 AM
> Subject: [TS-520_820_530_830] Are "for sale" ads allowed?

>
> Can we post TS-830 related ads here or is it forbidden?
>
> - Keith N1AS -
>
>
>
>

[Non-text portions of this message have been removed]

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11144. Re: [TS-520_820_530_830] TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:34:17 UTC
From: John Harp
Topic: 11139 Message: 11144

You may find more information over in the archives about the 6146 tubes to help you. Go to files and look for The 6146 Family of Tubes.doc. It was written by Glen E. Zook, K9STH. Fills in the details about the tubes compatibilities.

There is also information in the same section about replacement and neutralization. Lots of good reading set there for the members by the members related to these vintage radios.

And welcome to the group. I'm John-KA3DPW. I have TS-830 .

cprocny <n2yhq@...> wrote:
Hello to All
I'm new in this group, recently upgraded to General and purchased a TS-820S XCVR which works fine but it puts out ~100W in CW. I wonder if this is an indication that I should start thinking on replace the final tubes. The manual calls for S2001 tubes which I think are obsolete. Is there any drop-in replacement for those tubes?

73 de Marcelo N2YHQ

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11145. Re: [TS-520_820_530_830] Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:32:44 UTC
From: Peter A Markavage
Topic: 11111 Message: 11145

Of course then it would mean that the administrators would have to screen each "For Sale" post to be sure that it pertains "directly" to Kenwood hybrids and likewise any "accessories". Then, how do you define accessories. I have a IHY equalizer that works great with my 830 and 599 twins. Makes a fine edition to these rigs. It's an accessory. Personally, it's easy enough to create a Yahoo Group that covers this "For Sale/Want" activity. Traditionally this group has been the key help and support for keeping the 520/530/820/830 type rigs up and running. Do you really want to dilute the reflector activity by now intertwining For Sale type ads in all the string of threads?

Pete, wa2cwa

On Sun, 26 Nov 2006 08:00:42 -0800 "jsloss" <k7mks@...> writes:
> It should be appropriate to allow ads pertaining to hybrid equipment
> including accesssories.
>
> Joe k7mks

11146. Re: [TS-520_820_530_830] Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:37:45 UTC
From: John Harp
Topic: 11142 Message: 11146

can only see a case with ventilation holes on two sides, the color is grey. Not enough detail to tell anything else.

digs4ruff <digs4ruff@...> wrote: In some parts I recently acquired are a quantity of Sprague 93Z20 V7052
Photo has been uploaded to VA7GEM folder
http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/view/4cc6?b=22
Anyone know what this is?
thanks
Barry

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11147. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:45:11 UTC
From: Kevin
Topic: 11139 Message: 11147

Isn't 100 watts CW pretty good?
That is about the most I've ever seen from my 830S
and I bought it new.
How are you measuring it?

My expert tells me Philips ECG 6146W good. GE sometimes bad.
73
Kevin

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> You may find more information over in the archives about the 6146
tubes to help you. Go to files and look for The 6146 Family of
Tubes.doc. It was written by Glen E. Zook, K9STH. Fills in the
details about the tubes compatibilities.
>
> There is also information in the same section about replacement
and neutralization. Lots of good reading set there for the members by
the members related to these vintage radios.
>
> And welcome to the group. I'm John-KA3DPW. I have TS-830 .
>
> cprocny <n2yhq@...> wrote:
> Hello to All
> I'm new in this group, recently upgraded to General and purchased a
TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the
final
> tubes. The manual calls for S2001 tubes which I think are obsolete.
Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>
>
>
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail beta.
>
> [Non-text portions of this message have been removed]

>

11148. Re: [TS-520_820_530_830] Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 19:01:54 UTC
From: Geoff Hegarty
Topic: 11142 Message: 11148

Hi Wonderful Group

I wouldn't mind betting that it was a coupling transformer of some
description - tho I'm only guessing. Two centre-tapped windings perhaps???
Wwhat do you see between the leads with a multimeter?

Geoff VK2HQA

>From: John Harp <ka3dpw@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Mystery Parts - Sprague
>Date: Sun, 26 Nov 2006 10:37:45 -0800 (PST)
>
>can only see a case with ventilation holes on two sides, the color is grey.
>Not enough detail to tell anything else.
>
>digs4ruff <digs4ruff@...> wrote: In some parts I recently
>acquired are a quantity of
>Sprague 93Z20 V7052
>Photo has been uploaded to VA7GEM folder
>http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/view/4cc6?
>b=22
>Anyone know what this is?
>thanks
>Barry
>
>
>
>
>
>
>---------------------------------
>Everyone is raving about the all-new Yahoo! Mail beta.
>
>[Non-text portions of this message have been removed]
>

Advertisement: Meet Sexy Singles Today @ Lavalife - Click here
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Flavalife9%2Eninemsn%2Ecom%2Eau%2Fclickthru
%2Fclickthru%2Eact%3Fid%3Dninemsn%26context%3Dan99%26locale%3Den%5FAU%26a%3D23769&_t=75495
1090&_r=endtext_lavalife_nov_meet&_m=EXT

11149. Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 19:19:28 UTC
From: norman_y
Topic: 11111 Message: 11149

Personally, I have no problem with occasional posts of equipment for sale that are reasonably related to the purpose of the list. That might be a bit broader than hybrids only, such as useful test equipment for these rigs. I also like the idea of at least a starting price. What I would not want to see are posts that say "I have such-and-such on Ebay," etc.

What is "useful," "related," or "occasional"? I am content to leave that in the discretion of the moderators. If a word of warning to the wise does not do it, they know how to pull the plug.

FWIW, some of my best buys have come off of moderated lists where the seller had a known presence. That's how I got my TS 520 and TS-430S, among other things. Much better than the Ebay lottery where "I am not a ham, but I turned in on and it lights up. Sold as is," or "Sold as is. Guaranteed not to be DOA," whatever that means.

I'd suggest let's try it, and if it gets to be too much, the moderators can revisit it.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> For sale ads:
>
> The opening statement on the home page states "Please do not post for sale ads here". We do allow posts by individuals who have an occasional rig for sale on the "KenwoodQSO" group.
>
> Now might be a good time to ask, how the group members feel about this?
> Should we keep the policy as is, "No for sale posts." or should we allow occasional posts by individuals who have gear directly to Kenwood Hybrids, with the restriction that interested buyers contact the buyer directly, not on the forum.
>
> Vy 73, Walt N9WB
>
>
>
>
> ----- Original Message -----
> From: Darwin, Keith
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Saturday, November 25, 2006 11:27 AM
> Subject: [TS-520_820_530_830] Are "for sale" ads allowed?
>
>

> Can we post TS-830 related ads here or is it forbidden?
>
> - Keith N1AS -
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.15/550 - Release Date:
11/24/06
>
>
> [Non-text portions of this message have been removed]
>

11150. Re: [TS-520_820_530_830] TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 18:21:11 UTC
From: John Harp
Topic: 11139 Message: 11150

Hi, what band were you on when you found 100 watt measurment and how well did you tune? 100 on CW doesn't sound bad to me on certain frequencies. Granted it can go a little higher but there sounds like still some life left in the tubes for CW. You may want to get another set of tubes ordered for the future, but for now they should be ok based on what you have said so far. Why do you think the tubes are going bad? Back 2U

cprocny <n2yhq@...> wrote: Hello to All
I'm new in this group, recently upgraded to General and purchased a TS-820S XCVR which works fine but it puts out ~100W in CW. I wonder if this is an indication that I should start thinking on replace the final tubes. The manual calls for S2001 tubes which I think are obsolete. Is there any drop-in replacement for those tubes?

73 de Marcelo N2YHQ

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11151. Re: [TS-520_820_530_830] Re: Are "for sale" ads allowed?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 20:32:24 UTC
From: Kevin & Natalia
Topic: 11111 Message: 11151

Hi,

I would be happy to see Group related Ads/Wants only (Kenwood Accs to these hybrid radios Only).
Going outside this field opens it up to one perseption of what can be attached to the radio. ie. I have a computer connected, with interface, could I say this is an acc to my TS-830, in my opinnion "NO"

I am looking for a VFO-230, and SP-230, so I would expect a sell ad for this to be allowed.

Conditions.
1. Replies to seller directly. E-mail link within the post, the reply or reply all returns to the group.
2. Price to be made on the orignal post.
3. Detailed discription of equipment.

My 2-cents worth

Kevin, ZL1KFM

[Non-text portions of this message have been removed]

11152. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 21:05:42 UTC
From: w5rkl
Topic: 11139 Message: 11152

I agree with John KA3DPW, a new set as "spares" is a good idea. I would read the article "The 6146 Family of Tubes" by Glenn Zook. I run 6146Ws in my 820 and it works just fine, no problems neutralizing and power output is very stable on 10 mtrs.

Have you also consider aligning the 820 driver coils? A simple adjustment of the driver coils is all that is needed. Follow the service manual procedures for alignment/adjusting the driver coils. More than likely you only need a slight alignment of the driver to bring your 820 up to speed.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Hi, what band were you on when you found 100 watt measurment and how well did you tune? 100 on CW doesn't sound bad to me on certain frequencies. Granted it can go a little higher but there sounds like still some life left in the tubes for CW. You may want to get another set of tubes ordered for the future, but for now they should be ok based on what you have said so far. Why do you think the tubes are going bad? Back 2U
>
> cprocny <n2yhq@...> wrote: Hello to All
> I'm new in this group, recently upgraded to General and purchased a TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the final
> tubes. The manual calls for S2001 tubes which I think are obsolete. Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>
>
>
>
>
> ---------------------------------
> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

>
> [Non-text portions of this message have been removed]
>

11153. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 19:56:06 UTC
From: cprocny
Topic: 11139 Message: 11153

Hi John

Thanks for your reply. I usually operate on 80-40m and measure it
with (do not laugh) the meter included with the MFJ Versa tuner II
and a Radio Shack HF power meter.

73 Marcelo

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Hi, what band were you on when you found 100 watt measurment and
how well did you tune? 100 on CW doesn't sound bad to me on certain
frequencies. Granted it can go a little higher but there sounds like
still some life left in the tubes for CW. You may want to get another
set of tubes ordered for the future, but for now they should be ok
based on what you have said so far. Why do you think the tubes are
going bad? Back 2U
>
> cprocny <n2yhq@...> wrote: Hello to All
> I'm new in this group, recently upgraded to General and purchased a
TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the
final
> tubes. The manual calls for S2001 tubes which I think are obsolete.
Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>
>
>
>
>
> ---------------------------------
> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

11154. Kenwoods For Sale (Hybirds)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 19:53:28 UTC
From: Gene Hawkins
Topic: 11154 Message: 11154

Hello Gang,

I do not see anything wrong with selling Kenwood
Hybrid equipment, or the accessories that pertain
to the equipment that this list was established to
accommodate.

Heck, not knowing the difference I have already
posted a complete TS-830 station and it sold very fast.

I would much rather see a fellow Ham buy this
equipment than see it sold on E-Bay to a CB'er that
would have it butchered up for his bootleg frequencies.

If I remember correctly, when I signed on this list the folks
wanted a call sign before they let you on, and I don't have
a problem with that.

I would prefer not to have another list established just
for the selling of these rigs, but at the same time I do not
want this list full of for sale adds either.

I think to should be left up to the list owners and
administrators to decide whether they want to allow on
their lists.

Hey, all of this and about $2.00 will get you a cup of coffee
just about anywhere.

73,

Gene Hawkins
KA5CNT

11155. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 19:50:47 UTC
From: cprocny
Topic: 11139 Message: 11155

Hi Kevin

Thanks for your reply. I measure it with (do not laugh) with the MFJ Versa tuner II meter and a Radio Shack HF power meter.

73 Marcelo

--- In TS-520_820_530_830@yahoogroups.com, "Kevin" <n0cwr@...> wrote:
>
> Isn't 100 watts CW pretty good?
> That is about the most I've ever seen from my 830S
> and I bought it new.
> How are you measuring it?
>
> My expert tells me Philips ECG 6146W good. GE sometimes bad.
> 73
> Kevin
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > You may find more information over in the archives about the 6146
> tubes to help you. Go to files and look for The 6146 Family of
> Tubes.doc. It was written by Glen E. Zook, K9STH. Fills in the
> details about the tubes compatibilities.
> >
> > There is also information in the same section about replacement
> and neutralization. Lots of good reading set there for the members
by
> the members related to these vintage radios.
> >
> > And welcome to the group. I'm John-KA3DPW. I have TS-830 .
> >
> > cprocny <n2yhq@> wrote:
> > Hello to All
> > I'm new in this group, recently upgraded to General and purchased
a
> TS-
> > 820S XCVR which works fine but it puts out ~100W in CW. I wonder
if
> > this is an indication that I should start thinking on replace the
> final
> > tubes. The manual calls for S2001 tubes which I think are
obsolete.
> Is
> > there any drop-in replacement for those tubes?

> >
> > 73 de Marcelo N2YHQ
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Everyone is raving about the all-new Yahoo! Mail beta.
> >
> > [Non-text portions of this message have been removed]
> >
>

11156. Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 21:53:47 UTC
From: digs4ruff
Topic: 11142 Message: 11156

John
That is because Yahoo truncated the last 4 characters from the URL.
I can't seem to get around this so will have to say that the 2 pics
are in folder VA7GEM.
Sorry about that
Barry

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> can only see a case with ventilation holes on two sides, the color
is grey. Not enough detail to tell anything else.
>
> digs4ruff <digs4ruff@...> wrote: In some parts I recently
acquired are a quantity of
> Sprague 93Z20 V7052
> Photo has been uploaded to VA7GEM folder
> http://ph.groups.yahoo.com/group/TS-
520_820_530_830/photos/view/4cc6?
> b=22
> Anyone know what this is?
> thanks
> Barry
>
>
>
>
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail beta.
>
> [Non-text portions of this message have been removed]
>

11157. Re: [TS-520_820_530_830] Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 22:05:35 UTC
From: Stephen Goldberg
Topic: 11139 Message: 11157

Not laughing. Found the Radio Shack meter quite accurate and can't beat it for 30 bucks.
Steve W4IMF

----- Original Message -----
From: cprocny
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 2:56 PM
Subject: [TS-520_820_530_830] Re: TS-820S Final Tubes replacement?

Hi John

Thanks for your reply. I usually operate on 80-40m and measure it
with (do not laugh) the meter included with the MFJ Versa tuner II
and a Radio Shack HF power meter.

73 Marcelo

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Hi, what band were you on when you found 100 watt measurment and
how well did you tune? 100 on CW doesn't sound bad to me on certain
frequencies. Granted it can go a little higher but there sounds like
still some life left in the tubes for CW. You may want to get another
set of tubes ordered for the future, but for now they should be ok
based on what you have said so far. Why do you think the tubes are
going bad? Back 2U
>
> cprocny <n2yhq@...> wrote: Hello to All
> I'm new in this group, recently upgraded to General and purchased a
TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the
final
> tubes. The manual calls for S2001 tubes which I think are obsolete.
Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>
>
>
>
> ---------------------------------

> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

11158. Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 22:36:06 UTC
From: digs4ruff
Topic: 11142 Message: 11158

Geoff
I have added a 3rd pic of the back side showing the numbering on the leads. Ohmeter indicates 0.1 ohm as follows with all other permutations as open:
lead 1-2
lead 3-4
lead 5-6
Same measurements when polarity is reversed.
thanks for the help
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty" <geoff_hegarty@...> wrote:
>
> Hi Wonderful Group
>
> I wouldn't mind betting that it was a coupling transformer of some
> description - tho I'm only guessing. Two centre-tapped windings perhaps???
> Wwhat do you see between the leads with a multimeter?
>
> Geoff VK2HQA
>
>
> >From: John Harp <ka3dpw@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: Re: [TS-520_820_530_830] Mystery Parts - Sprague
> >Date: Sun, 26 Nov 2006 10:37:45 -0800 (PST)
> >
> >can only see a case with ventilation holes on two sides, the color is grey.
> >Not enough detail to tell anything else.
> >
> >digs4ruff <digs4ruff@...> wrote: In some parts I recently
> >acquired are a quantity of
> >Sprague 93Z20 V7052
> >Photo has been uploaded to VA7GEM folder
> >http://ph.groups.yahoo.com/group/TS-520_820_530_830/photos/view/4cc6?
> >b=22
> >Anyone know what this is?
> >thanks
> >Barry

> >
> >
> >
> >
> >
> >
> >----------
> >Everyone is raving about the all-new Yahoo! Mail beta.
> >
> >[Non-text portions of this message have been removed]
> >
>
> --
> Advertisement: Meet Sexy Singles Today @ Lavalife - Click here
> http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Flavalife9%
2Eninemsn%2Ecom%2Eau%2Fclickthru%2Fclickthru%2Eact%3Fid%3Dninemsn%
26context%3Dan99%26locale%3Den%5FAU%26a%
3D23769&_t=754951090&_r=endtext_lavalife_nov_meet&_m=EXT
>

11159. Re: [TS-520_820_530_830] Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 23:40:03 UTC
From: John Harp
Topic: 11142 Message: 11159

OK Barry, thank you. To be honest I was just down in the archives and past right past that and wondered what it was just before it appeared to me in the email. So I ghuessed honestly based upon what information I saw. Figured I'd probably learn something new and hopefully interesting.

digs4ruff <digs4ruff@...> wrote: John
That is because Yahoo truncated the last 4 characters from the URL.
I can't seem to get around this so will have to say that the 2 pics
are in folder VA7GEM.
Sorry about that
Barry

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> can only see a case with ventilation holes on two sides, the color
is grey. Not enough detail to tell anything else.
>
> digs4ruff <digs4ruff@...> wrote: In some parts I recently
acquired are a quantity of
> Sprague 93Z20 V7052
> Photo has been uploaded to VA7GEM folder
> http://ph.groups.yahoo.com/group/TS-
520_820_530_830/photos/view/4cc6?
> b=22
> Anyone know what this is?
> thanks
> Barry
>
>
>
>
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail beta.
>
> [Non-text portions of this message have been removed]
>

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11160. Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 23:43:55 UTC
From: Noel Spears
Topic: 11160 Message: 11160

I have a TS-520. At a local ham club auction, a VFO-520S came up for sale, and I grabbed it for $25.00. There is no cable. Therefore, I have two questions. 1. Will it be possible to use the VFO-520S with a TS-520? 2. Where can I buy a cable, OR, where can I find instructions to make one? I have some old tubes; I suspect that I could use their sockets and make my own cable. Noel N2FAV Maywood, N

11161. Re: [TS-520_820_530_830] Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 23:50:34 UTC
From: John Harp
Topic: 11139 Message: 11161

That's ok Marcello. I use the meter on my versa tuner five. I just wasn't sure about the question asked. Somtimes the 830 gives 100 watts here and something else there. To me that's ok barefoot. I only need 65 to drive full limit on my linear amplifier.

cprocny <n2yhq@...> wrote: Hi John

Thanks for your reply. I usually operate on 80-40m and measure it
with (do not laugh) the meter included with the MFJ Versa tuner II
and a Radio Shack HF power meter.

73 Marcelo

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Hi, what band were you on when you found 100 watt measurment and
how well did you tune? 100 on CW doesn't sound bad to me on certain
frequencies. Granted it can go a little higher but there sounds like
still some life left in the tubes for CW. You may want to get another
set of tubes ordered for the future, but for now they should be ok
based on what you have said so far. Why do you think the tubes are
going bad? Back 2U
>
> cprocny <n2yhq@...> wrote: Hello to All
> I'm new in this group, recently upgraded to General and purchased a
TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the
final
> tubes. The manual calls for S2001 tubes which I think are obsolete.
Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>
>
>
>
>
> ---------------------------------
> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>
> [Non-text portions of this message have been removed]
>

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11162. Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-26 23:55:46 UTC
From: digs4ruff
Topic: 11142 Message: 11162

John
No worries. What you actually saw was the cover off the PS-510
before it was painted.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> OK Barry, thank you. To be honest I was just down in the archives
and past right past that and wondered what it was just before it
appeared to me in the email. So I ghuessed honestly based upon what
information I saw. Figured I'd probably learn something new and
hopefully interesting.
>
> digs4ruff <digs4ruff@...> wrote: John
> That is because Yahoo truncated the last 4 characters from the URL.
> I can't seem to get around this so will have to say that the 2
pics
> are in folder VA7GEM.
> Sorry about that
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > can only see a case with ventilation holes on two sides, the
color
> is grey. Not enough detail to tell anything else.
> >
> > digs4ruff <digs4ruff@> wrote: In some parts I recently
> acquired are a quantity of
> > Sprague 93Z20 V7052
> > Photo has been uploaded to VA7GEM folder
> > http://ph.groups.yahoo.com/group/TS-
> 520_820_530_830/photos/view/4cc6?
> > b=22
> > Anyone know what this is?
> > thanks
> > Barry
> >
> >
> >
> >
> >

> >
> > ---------------------------------
> > Everyone is raving about the all-new Yahoo! Mail beta.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Access over 1 million songs - Yahoo! Music Unlimited.
>
> [Non-text portions of this message have been removed]
>

11163. Re: [TS-520_820_530_830] Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 00:31:45 UTC
From: John Harp
Topic: 11160 Message: 11163

You may find it difficult to obtain a cable. Usually at a hamfest or an occasional listing on ebay or swap meet.

If you do need to go the route of building a cable for your radio to vfo here's what I found for you so far.

A copy of this manual is obtainable on BAMA or CD on ebay or the archives. I believe James Marolda is our courteous thoughtful member who made sure of the availability of the information. As ofr 520 to 520S differences I do not know that much. I'm 830. I knew this muchfrom persuing the information regarding another accessory of the 520. It's TV-502 unit. This is what I found for you. hope it helps. Cables for these radios other than Amplifier aftermarket might be few and far between if you go looking. I've kept the 520 manual for reference in my documents on computer. Otheres here in the group may be able to lead you better, but so far this information I can point you to.

A copy of the Kenwood SSB Transiever Model TS-520 Owners Manual shows the following information for you.

Looking bck in the TS-520manual I see a diagram in Section 2 after page 8, where in figure 1-D it shows connection of TS-520 to VFO-520.

Then on Page 10Figure 4 shows the back paneled External VFO connector. Pins 8 and 9 are jumpered.

On page 16 it shows the wiring diagram for the VFO-520 with it's pinouts.

Hope it's of help. I use remote VFO on my 830's. They're nice to have. Enjoy.

Noel Spears <Noel@...> wrote:
I have a TS-520. At a local ham club auction, a VFO-520S came up for
sale, and I grabbed it for $25.00. There is no cable. Therefore, I
have two questions. 1. Will it be possible to use the VFO-520S with a
TS-520? 2. Where can I buy a cable, OR, where can I find instructions
to make one? I have some old tubes; I suspect that I could use their
sockets and make my own cable. Noel N2FAV Maywood, N

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11164. Re: [TS-520_820_530_830] Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 02:09:17 UTC
From: John Harp
Topic: 11142 Message: 11164

OK well I answered honestly based on the one picture I saw.

Be an interesting project I'm sure. I've never seen a 510, but I have heard of it. The first of Trio Kenwood line. The grand ole lady of tube hybrid generations.

I live the other end of the hybrid tube line. The 830 and all it's accessories. Some adapted from the 520.

I'll look now and again to see how your doing with it. Is it to keep or to sell when your done?

digs4ruff <digs4ruff@...> wrote:
John
No worries. What you actually saw was the cover off the PS-510
before it was painted.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> OK Barry, thank you. To be honest I was just down in the archives
and past right past that and wondered what it was just before it
appeared to me in the email. So I ghuessed honestly based upon what
information I saw. Figured I'd probably learn something new and
hopefully interesting.
>
> digs4ruff <digs4ruff@...> wrote: John
> That is because Yahoo truncated the last 4 characters from the URL.
> I can't seem to get around this so will have to say that the 2
pics
> are in folder VA7GEM.
> Sorry about that
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > can only see a case with ventilation holes on two sides, the
color
> is grey. Not enough detail to tell anything else.
> >
> > digs4ruff <digs4ruff@> wrote: In some parts I recently
> acquired are a quantity of
> > Sprague 93Z20 V7052
> > Photo has been uploaded to VA7GEM folder

> > http://ph.groups.yahoo.com/group/TS-
> 520_820_530_830/photos/view/4cc6?
> > b=22
> > Anyone know what this is?
> > thanks
> > Barry
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Everyone is raving about the all-new Yahoo! Mail beta.
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---------------------------------
> Access over 1 million songs - Yahoo! Music Unlimited.
>
> [Non-text portions of this message have been removed]
>

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11165. Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 03:58:48 UTC
From: digs4ruff
Topic: 11142 Message: 11165

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> OK well I answered honestly based on the one picture I saw.
>
> Be an interesting project I'm sure. I've never seen a 510, but I
have heard of it. The first of Trio Kenwood line. The grand ole lady
of tube hybrid generations.
>
> I live the other end of the hybrid tube line. The 830 and all
it's accessories. Some adapted from the 520.
>
> I'll look now and again to see how your doing with it. Is it to
keep or to sell when your done?
>
John
Definitely a keeper. The stable as of today is TS-510, TS-520, TS820.
Do need a VFO-5D & VFO-520 to flesh it out.
regards
Barry

11166. 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 04:18:49 UTC
From: af4at2
Topic: 11166 Message: 11166

Good evening all.

A few months ago I got an 820 with digital display,
condition unknown.

The receiver worked, the digital display was blank.

By resoldering the connectors the display now works.

I got brave and turned the heater switch on, then
switched to tune mode. I got a really high ip reading.
I turned the ip knob on the back of the rig fully counterclockwise and
it was still pegging the meter in the tune mode.
Then I got the final tube melt down along with r3 & 3.

I replaced all the resistors in the final area, all the rectifier board
resistors. Put in a used (known working set of 6146's and 12by7.

This time when I switched to tune mode I still had high ip reading
and there was a pop and smoke on the rf board (but the finals seemed
to do ok.)

On looking for physicaL evidence r-38 on the rf board is burned.

Can someone give me a starting point to troubleshoot the rf board.

Thanks
Jim af4at

11167. Re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 05:48:13 UTC
From: Valued Customer
Topic: 11122 Message: 11167

Walt, you are so awesome. You should write a book based upon the content you've provided to the Yahoo groups! Thank you so much for your education. I'm sure I speak for many when I say, Thank you.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Antenna feedline has a loss figure per 100 ft. .... [snip]

11168. For Sale/WTB ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 05:08:37 UTC
From: Jim
Topic: 11168 Message: 11168

I agree with most, these ads are helpful to the extent of staying on
subject, and also not to be turned into a market alternative for the
sellers out there looking for exposure for their wares.
Limit them to posts from 'forumn members' for Kenwood Hybrid equipment
and directly related equipment addons(ie:vfo,atu,mics,etc).

Just my 2cts.

11169. For Sale Posts Rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 06:10:31 UTC
From: n9wb
Topic: 11169 Message: 11169

The response has been overwhelming in favor of permitting for sale posts with this group. We want this to be a Minor part of the traffic here.

Here are the rules. They are subject to change as necessary to avoid problems.

Rules pertaining to Occasional For Sale and Want to Buy Posts.

Members of the TS-520_820_530_830 Yahoo Group who have been members for at least 30 days may place for sale and want to buy posts no more frequently than two weeks. (14 days)

For sale posts may include sale of TS-510, 520, 820, 530, and 830 as well as Kenwood accessories intended for use with these radios. Posts relating to non-Kenwood accessories commonly used with these radios may be posted, but please use discretion.

Posts must include the make and model of the item for sale as well as an accurate description of its condition and the asking price.

When the item is sold, please make a short post to that effect.

Replies and discussions regarding these posts must be taken off of this group either by direct e-mail to the seller or To the KenwoodQSO group as directed by the seller.

Buyers and sellers are on their own. The TS-520_820_530_830 Yahoo Group its owners, moderators, or members other than the seller hold no responsibility for the accuracy of the posts or the credibility of the seller or buyer.

We do not expect that members of this group will misrepresent or in any way cheat other members. At the moderators discretion, we may choose to ban any member from making further for sale posts, or ban the member from this group entirely if we believe his posts or transactions are not of the utmost integrity.

We ask that those who buy and sell equipment as a main business not post here. We will allow posts from members who occasionally restore and sell equipment.

We expect our members to use discretion. If excessive traffic develops as a direct result of these postings, they may have to be discontinued.

Walter Breining, N9WB

11170. For sale and WTB posts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 06:52:59 UTC
From: n9wb
Topic: 11170 Message: 11170

First, I would like to thank all of you who responded to my request for your opinion concerning For Sale posts.

How successful this is depends on the discretion of the members. I did not want to limit everything to Kenwood brand, however, please do not post things that are very general in nature. For example, it you have an antenna or a roll of coax for sale, it would be better advertised on other groups. Rack audio gear would be better posted other places. However, a Heil mike wired for a Kenwood would be acceptable.

Some items are well suited for this focused audience. Others could be marketed anywhere.

If one of us has a nice TS-820 that we have been using and then upgraded to a TS-830, this will give this person a way of letting know it is available. This person can offer it to people whom he is familiar with.

My previous message listed the rules regarding For Sale and WTB ads. We may need to fine tune them after I see how much trouble I have gotten us in to. Hi.

The rules have also been posted in the Files section of this group.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11171. Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 07:40:05 UTC
From: n9wb
Topic: 11122 Message: 11171

Frank:
You made my day.

Speaking of publications, somebody asked me what to look for at Hamfests in the way of technical material. I will make these suggestions.

Look for any used ARRL handbook, no matter what year.
Look for ARRL Antenna Handbooks no matter what year.
By no matter what year I am talking very olde to current.

Radio Handbook by Bill Orr. Any edition

Here is an interesting web site http://www.cebik.com/radio.html

It will provide you with a lot of interesting reading.

I also want to thank all of those who are contributing to this group with advice and information. All of us working together passing on our knowledge and experience will enable others to revive some of these great olde rigs and revive the technical aspect of Amateur Radio.

We have heard about the olde days when the local hams mentored (Elmered) aspiring ham on a one on one basis. In today's world this is more difficult. It seemed that this was a dying art. But with the internet, one ham can Elmer another anywhere in the world and one ham can have access to the knowlege of many Elmers.

I do not believe that God gave us knowledge to hoard. As we gain knowledge, we are to pass it on to others.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 12:48 AM
Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Walt, you are so awesome. You should write a book based upon the content you've provided to the Yahoo groups! Thank you so much for your education. I'm sure I speak for many when I say, Thank you.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>

> Antenna feedline has a loss figure per 100 ft. .... [snip]

11172. Re: [TS-520_820_530_830] 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 08:50:10 UTC
From: n9wb
Topic: 11166 Message: 11172

The control grid of your finals requires a negative voltage to keep it from drawing excessive current. If it does not have this "Bias" voltage, the tubes will burn up and damage the cathode resistors R2 and R3. When transmitting, this negative voltage is reduced to allow the tube to draw 60 MA of cathode (plate) current. I suspect that you have lost this bias voltage.

First, remove the tubes. Position the plate caps so they do not get into mischief. Next remove Q5 from the RF board. This is a 2sc1515. Check it with your ohm meter.

To do this position the flat side with the beveled top toward you and have the legs pointing down. The right lead is the base. The center lead is the base. The left leg is the emitter.

Place the black ohm meter lead on the base and the red meter lead on the collector. It will either read a high or low reading.
Now reverse the leads and do the same thing. It should read high with the leads one way and low with the leads the other way.
If it shows low both ways, it is shorted.

Now do the same thing but this time between the base lead and the emitter lead. Again, it should read high with the leads one way and low with them the other way.
If it shows low both ways, it is shorted.

Let us know if it appears to be shorted as you will need a new transistor.

Next Place your volt meter on DC volts. Find the center wiper of the bias adj. pot on the back of the radio. With the tubes still out and the SG switch on the back off, turn the radio on. Place the mode switch in USB. With the red volt meter lead on the center of the bias pot and the black lead to chassis ground, measure the voltage at the center of the bias pot. Observe this voltage while rotating this pot. It should change from one extreme to the other. Turn the radio off.

Remove the damaged C-38. Measure the ohms of D-7 with the leads one way and then the other. One way should read much higher than the other.

Now. on the RF board, locate the connector RF2 and R-25. Place the meter on DC Volts and a scale that will read 100 V. With the rig back on, measure the voltage on the ends of R-12. Do this with the red volt meter wire on the chassis and place the black meter wire on R-12. One end should read around -100 VDC.

Let us know what you find and we can go from there.

Vy 73, Walt N9WB

----- Original Message -----
From: af4at2
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 11:18 PM

Subject: [TS-520_820_530_830] 820 rf board question

Good evening all.

A few months ago I got an 820 with digital display,
condition unknown.

The receiver worked, the digital display was blank.

By resoldering the connectors the display now works.

I got brave and turned the heater switch on, then
switched to tune mode. I got a really high ip reading.
I turned the ip knob on the back of the rig fully counterclockwise and
it was still pegging the meter in the tune mode.
Then I got the final tube melt down along with r3 & 3.

I replaced all the resistors in the final area, all the rectifier board
resistors. Put in a used (known working set of 6146's and 12by7.

This time when I switched to tune mode I still had high ip reading
and there was a pop and smoke on the rf board (but the finals seemed
to do ok.)

On looking for physicaL evidence r-38 on the rf board is burned.

Can someone give me a starting point to troubleshoot the rf board.

Thanks
Jim af4at

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date: 11/25/06

[Non-text portions of this message have been removed]

11173. Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 12:02:50 UTC
From: Another Old Codger
Topic: 11122 Message: 11173

Walt,

You have made a very sensible and important suggestion i.e., collect
those books. Over the years I have 'grabbed' and hoarded every Ham
Radio book I could get my hands on. The only regret you will have is
that you never have enough time to read them. I have books going back
to the 1920's, including one where wireless experimentation consists
of a home made spark transmitter and a coherer!

Remember, that until the 1940's science teachers were still teaching
that current flowed from positive to negative despite John Fleming's
invention of the Diode in 1904 proving them wrong.

Sadly, the young folk of today think that they know it all, when in
fact they lack a lot of the history!

73 Ron G8URU

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 27, 2006 7:40 AM
Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to
the antenna when...

Frank:
You made my day.

Speaking of publications, somebody asked me what to look for at
Hamfests in
the way of technical material. I will make these suggestions.

Look for any used ARRL handbook, no matter what year.
Look for ARRL Antenna Handbooks no matter what year.
By no matter what year I am talking very olde to current.

Radio Handbook by Bill Orr. Any edition

Here is an interesting web site http://www.cebik.com/radio.html

It will provide you with a lot of interesting reading.

I also want to thank all of those who are contributing to this group
with
advice and information. All of us working together passing on our
knowledge

and experience will enable others to revive some of these great olde
rigs
and revive the technical aspect of Amateur Radio.

We have heard about the olde days when the local hams mentored
(Elmered)
aspiring ham on a one on one basis. In today's world this is more
difficult.
It seemed that this was a dying art. But with the internet, one ham
can
Elmer another anywhere in the world and one ham can have access to the
knowlege of many Elmers.

I do not believe that God gave us knowledge to hoard. As we gain
knowledge,
we are to pass it on to others.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 12:48 AM
Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to the
antenna when...

Walt, you are so awesome. You should write a book based upon the
content you've provided to the Yahoo groups! Thank you so much for
your education. I'm sure I speak for many when I say, Thank you.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Antenna feedline has a loss figure per 100 ft. .... [snip]

11174. Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 12:23:06 UTC
From: n9wb
Topic: 11174 Message: 11174

Try to find the book " Practical Wireless telegraphy". You will be amazed by what was done by mechanical means. It is hard to understand the new if you do not understand the olde. I never learned DOS. I am not very good at computer programs.

Vy 73, Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 7:02 AM
Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Walt,

You have made a very sensible and important suggestion i.e., collect those books. Over the years I have 'grabbed' and hoarded every Ham Radio book I could get my hands on. The only regret you will have is that you never have enough time to read them. I have books going back to the 1920's, including one where wireless experimentation consists of a home made spark transmitter and a coherer!

Remember, that until the 1940's science teachers were still teaching that current flowed from positive to negative despite John Fleming's invention of the Diode in 1904 proving them wrong.

Sadly, the young folk of today think that they know it all, when in fact they lack a lot of the history!

73 Ron G8URU

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 27, 2006 7:40 AM
Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Frank:
You made my day.

Speaking of publications, somebody asked me what to look for at Hamfests in
the way of technical material. I will make these suggestions.

Look for any used ARRL handbook, no matter what year.
Look for ARRL Antenna Handbooks no matter what year.
By no matter what year I am talking very olde to current.

Radio Handbook by Bill Orr. Any edition

Here is an interesting web site http://www.cebik.com/radio.html

It will provide you with a lot of interesting reading.

I also want to thank all of those who are contributing to this group
with
advice and information. All of us working together passing on our
knowledge
and experience will enable others to revive some of these great olde
rigs
and revive the technical aspect of Amateur Radio.

We have heard about the olde days when the local hams mentored
(Elmered)
aspiring ham on a one on one basis. In today's world this is more
difficult.
It seemed that this was a dying art. But with the internet, one ham
can
Elmer another anywhere in the world and one ham can have access to the
knowlege of many Elmers.

I do not believe that God gave us knowledge to hoard. As we gain
knowledge,
we are to pass it on to others.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 12:48 AM
Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to the
antenna when...

Walt, you are so awesome. You should write a book based upon the
content you've provided to the Yahoo groups! Thank you so much for
your education. I'm sure I speak for many when I say, Thank you.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Antenna feedline has a loss figure per 100 ft. .... [snip]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date: 11/27/06

[Non-text portions of this message have been removed]

11175. transverter for 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 12:01:10 UTC
From: Michael Bellis
Topic: 11175 Message: 11175

New to the group, been using HF gear for many years in aviation and marine. Just now getting my amateur license and joining local club. Have acquired complete 830 setup including; vfo,ant.turner,sta.monitor,spk,and -50mic, ---would like any advise on best transverter to add for 2m and 6m ops. or even uhf. 73 Michael (theloneprospector in arizona).

11176. RE: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 13:25:22 UTC
From: Darwin, Keith
Topic: 11170 Message: 11176

I'm rather baffled at the apparent concern that the list will be overrun by for sale ads. Think about this from a seller's perspective. If I have a roll of coax or an Icom rig to sell, why would I post it in a Kenwood Hybrids SIG list? Why limit my audience? Instead a smart seller will post it in a general place to hit the widest audience.

For that reason I believe that the ads you're likely to see here would naturally be Kenwood related and would therefore be rather infrequent. My experience on other lists is that for sale ads are not nearly the issue that folks fear they'll be.

I'm glad to see that this list at least has the flexibility and openness to discuss the topic on list and to adjust the rules accordingly. Bravo, BRAVO!!!

Now, as to the limit of posing ads no more frequently than every 14 days and only if you've been a member for 30 days - be prepared for issues. I can see it now, new person REALLY wants an 830s and joins the list. Their first post is an introduction post. Second post is a want ad for an 830s and now they're in violation of the 30 day rule. Or, someone just picked up a complete 820s system and is selling off their 520 station. They list the 520 and when it sells, then want to list the rest of the accessories. Oops, that's 2 ads in less than 14 days. These may sound like trivial things but good people have been lost from other lists over issues just like these.

73 all!

- Keith N1AS -

11177. Re: [TS-520_820_530_830] Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 16:28:09 UTC
From: BRENT BAUM
Topic: 11160 Message: 11177

The VFO 520 to TS 520 connection is straight forward. Find the right size plugs and then begin connecting the pins. Pin 1 goes to Pin 1, 2 to 2, etc. I made my own plugs using brass brads, the caps from contact solution bottles (just the right diameter) and some non-conductive epoxy to hold it all together.

73's de K7MEI, Brent

>From: John Harp <ka3dpw@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Will a VFO-520S work on a TS-520?
>Date: Sun, 26 Nov 2006 16:31:45 -0800 (PST)
>
>You may find it difficult to obtain a cable. Usually at a hamfest or an
>occasional listing on ebay or swap meet.
>
> If you do need to go the route of building a cable for your radio to vfo
>here's what I found for you so far.
>
> A copy of this manual is obtainable on BAMA or CD on ebay or the
>archives. I believe James Marolda is our courteous thoughtful member who
>made sure of the availability of the information. As ofr 520 to 520S
>differences I do not know that much. I'm 830. I knew this muchfrom persuing
>the information regarding another accessory of the 520. It's TV-502 unit.
> This is what I found for you. hope it helps. Cables for these radios
>other than Amplifier aftermarket might be few and far between if you go
>looking. I've kept the 520 manual for reference in my documents on
>computer. Otheres here in the group may be able to lead you better, but so
>far this information I can point you to.
>
> A copy of the Kenwood SSB Transiever Model TS-520 Owners Manual shows
>the following information for you.
>
> Looking bck in the TS-520manual I see a diagram in Section 2 after page
>8, where in figure 1-D it shows connection of TS-520 to VFO-520.
>
> Then on Page 10Figure 4 shows the back paneled External VFO connector.
>Pins 8 and 9 are jumpered.
>
> On page 16 it shows the wiring diagram for the VFO-520 with it's
>pinouts.
>
> Hope it's of help. I use remote VFO on my 830's. They're nice to have.
>Enjoy.

>
>Noel Spears <Noel@...> wrote:
> I have a TS-520. At a local ham club auction, a VFO-520S came up
>for
>sale, and I grabbed it for $25.00. There is no cable. Therefore, I
>have two questions. 1. Will it be possible to use the VFO-520S with a
>TS-520? 2. Where can I buy a cable, OR, where can I find instructions
>to make one? I have some old tubes; I suspect that I could use their
>sockets and make my own cable. Noel N2FAV Maywood, N
>
>
>
>
>
> _____
>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around
>http://mail.yahoo.com
>
>---
>Access over 1 million songs - Yahoo! Music Unlimited.
>
>[Non-text portions of this message have been removed]
>

11178. Re: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 15:12:49 UTC
From: Another Old Codger
Topic: 11170 Message: 11178

Sales and etc., are a problem on some of the Groups I belong too. At times it can become very irritating. However, we have very good Moderators on this Group, so let's leave it to their good judgement. I am sure that they will soon sort out any attempt to exploit!

There are far worse problems than sales and etc., one radio site, Un-Moderated, was bombarded with propaganda promoting a certain religion, the name of which, being a 'Brit', I'm not allowed to mention, in case I offend a Minority!

73 Ron G8URU

----- Original Message -----
From: "Darwin, Keith" <keith.darwin@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 27, 2006 1:25 PM
Subject: RE: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

I'm rather baffled at the apparent concern that the list will be overrun
by for sale ads. Think about this from a seller's perspective. If I have a roll of coax or an Icom rig to sell, why would I post it in a Kenwood Hybrids SIG list? Why limit my audience? Instead a smart seller will post it in a general place to hit the widest audience.

For that reason I believe that the ads you're likely to see here would naturally be Kenwood related and would therefore be rather infrequent. My experience on other lists is that for sale ads are not nearly the issue that folks fear they'll be.

I'm glad to see that this list at least has the flexibility and openness
to discuss the topic on list and to adjust the rules accordingly. Bravo, BRAVO!!!

Now, as to the limit of posing ads no more frequently than every 14 days
and only if you've been a member for 30 days - be prepared for issues. I can see it now, new person REALLY wants an 830s and joins the list. Their first post is an introduction post. Second post is a want ad for
an 830s and now they're in violation of the 30 day rule. Or, someone just picked up a complete 820s system and is selling off their 520 station. They list the 520 and when it sells, then want to list the rest of the accessories. Oops, that's 2 ads in less than 14 days. These may sound like trivial things but good people have been lost

from
other lists over issues just like these.

73 all!

- Keith N1AS -

11179. For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 18:20:35 UTC
From: Stephen
Topic: 11179 Message: 11179

Is this group not for the dissemination of info and group(community) help with the repair and upgrade of one anothers personal TS520,530,820, 830's?
I've read many posts of individuals who buy defective units, use the groups resources and others to get them running and then turn a profit with the resale of the unit. Then, it's off to repeat the cycle. Is this a hobby or a business?
Would not ads create a bazaar atmosphere and lead to more of this sort of wheeling and dealing?
Might not the unrestricted posting of Kenwood hybrids and accessories lead to this becoming a for sale bullentin board? For after all, we are are a captive audience with a slightly higher then average interest in these machines.
Just the musings of one lowley amateur.

11180. Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 20:37:53 UTC
From: ve3tmt
Topic: 11179 Message: 11180

--- In TS-520_820_530_830@yahoogroups.com, "Stephen"
<stefenrcrain@...> wrote:
>
> Is this group not for the dissemination of info and group(community)
> help with the repair and upgrade of one anothers personal
> TS520,530,820, 830's?
> I've read many posts of individuals who buy defective units, use the
> groups resources and others to get them running and then turn a profit
> with the resale of the unit. Then, it's off to repeat the cycle. Is
> this a hobby or a business?
> Would not ads create a bazaar atmosphere and lead to more of this sort
> of wheeling and dealing?
> Might not the unrestricted posting of Kenwood hybrids and accessories
> lead to this becoming a for sale bullentin board? For after all, we are
> are a captive audience with a slightly higher then average interest in
> these machines.
> Just the musings of one lowley amateur.

Stephen...

That is why we have moderators. And I don't believe for one second
that allowing the occasional post by a member who has some hybrid
related gear for sale will spell the beginning of the end for our
group. I belong to many groups and this one easily has ten times the
traffic and I enjoy reading each and every post. Let the moderators
worry about the things you mentioned and just sit back and enjoy this
great group.

BTW, I'm looking for donations of an SM220 monitor scope!!

Max VE3TMT

11181. For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 20:33:37 UTC
From: Graham Ridgeway
Topic: 186 Message: 11181

OK, someone has to be first. Might as well be me. <smile>

For Sale. Ideally to be collected from Lancashire UK.

TS520SE Serial # 0030556.
Clean but probably not the prettiest in town [like it's owner]
Complete and working [bar the toggle over the S/R switch]
Good valves - 100watts on all bands.
Complete with Shure 444D desk mic.

Shall we haggle around the £75-00 mark ?

Please contact via m5aav@...

73 Graham M5AAV

11182. New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 19:59:54 UTC
From: Philip Leonard WVØT
Topic: 11182 Message: 11182

I'm happy to say I own a Kenwood hybrid radio again. I bought a TS-520S new years ago but traded it in along the way. I bought the 830S from a fellow member of this group (is it ok to say his name since it was before those ads were officially allowed). Now if I could just find a nice pair of 599D twins.

BTW, where is the KenwoodQSO group? I searched on yahoo groups but did not find it.

73 de Philip

11183. Re: New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 21:02:38 UTC
From: ve3tmt
Topic: 11182 Message: 11183

--- In TS-520_820_530_830@yahoogroups.com, Philip Leonard WVØT
<leolists@...> wrote:

BTW, where is the KenwoodQSO group? I searched on yahoo groups but did
> not find it.
>
> 73 de Philip

http://groups.yahoo.com/group/KenwoodQSO/

11184. Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 21:04:02 UTC
From: Gordon
Topic: 11179 Message: 11184

Stephen,
I ocassionaly buy dead or units in need of repair. I then fix them,
align them and resell them. It is truely a Hobby and not a business.It
is very hard to turn much of a profit(if at all) when doing this. I
do it because I enjoy taking something that doesn't work or work
correctly and making it whole again. It is very satisying !
The Moderators here will keep a close eye on what goes on.
I personally check every message here daily.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Stephen"
<stefenrcrain@...> wrote:
>
> Is this group not for the dissemination of info and group(community)
> help with the repair and upgrade of one anothers personal
> TS520,530,820, 830's?
> I've read many posts of individuals who buy defective units, use the
> groups resources and others to get them running and then turn a profit
> with the resale of the unit. Then, it's off to repeat the cycle. Is
> this a hobby or a business?
> Would not ads create a bazaar atmosphere and lead to more of this sort
> of wheeling and dealing?
> Might not the unrestricted posting of Kenwood hybrids and accessories
> lead to this becoming a for sale bullentin board? For after all, we are
> are a captive audience with a slightly higher then average interest in
> these machines.
> Just the musings of one lowley amateur.
>

11185. Re: 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 20:55:57 UTC
From: Gordon
Topic: 11166 Message: 11185

Jim,
What "IP" knob are you referring to on the back of the rdaio? The SG
bias or the RF adjustment?

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "af4at2" <af4at2@...> wrote:
>
> Good evening all.
>
> A few months ago I got an 820 with digital display,
> condition unknown.
>
> The receiver worked, the digital display was blank.
>
> By resoldering the connectors the display now works.
>
> I got brave and turned the heater switch on, then
> switched to tune mode. I got a really high ip reading.
> I turned the ip knob on the back of the rig fully counterclockwise and
> it was still pegging the meter in the tune mode.
> Then I got the final tube melt down along with r3 & 3.
>
> I replaced all the resistors in the final area, all the rectifier board
> resistors. Put in a used (known working set of 6146's and 12by7.
>
> This time when I switched to tune mode I still had high ip reading
> and there was a pop and smoke on the rf board (but the finals seemed
> to do ok.)
>
> On looking for physicaL evidence r-38 on the rf board is burned.
>
> Can someone give me a starting point to troubleshoot the rf board.
>
> Thanks
> Jim af4at
>

11186. Re: New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 21:04:06 UTC
From: digs4ruff
Topic: 11182 Message: 11186

http://groups.yahoo.com/group/KenwoodQSO/messages
Barry

--- In TS-520_820_530_830@yahoogroups.com, Philip Leonard WVØT
<leolists@...> wrote:
>
> I'm happy to say I own a Kenwood hybrid radio again. I bought a
TS-520S
> new years ago but traded it in along the way. I bought the 830S
from a
> fellow member of this group (is it ok to say his name since it was
> before those ads were officially allowed). Now if I could just
find a
> nice pair of 599D twins.
>
> BTW, where is the KenwoodQSO group? I searched on yahoo groups
but did
> not find it.
>
> 73 de Philip
>

11187. Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 22:51:13 UTC
From: james27613
Topic: 11160 Message: 11187

hi,

You've already have this info but I am posting this
for future searches on vfo-520 cable questions.

in the files section on this forum there is
info on how to build your own cable.

73 james ke4drn

PS Hi John, btw I'm in the witness protection program !!
Only kidding. 73

11188. Re: [TS-520_820_530_830] Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 23:03:20 UTC
From: Another Old Codger
Topic: 11179 Message: 11188

Snip>
BTW, I'm looking for donations of an SM220 monitor scope!!

Max VE3TMT

Well you're not getting mine, it's too useful. :-)

Ron G8URU

11189. Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 23:23:48 UTC
From: digs4ruff
Topic: 11179 Message: 11189

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> BTW, I'm looking for donations of an SM220 monitor scope!!
>
> Max VE3TMT

Me too only I insist that I will only accept one with the pan adapter
incuded.
Barry
VA7GEM

11190. RE: [TS-520_820_530_830] Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 23:37:41 UTC
From: BRENT BAUM
Topic: 11179 Message: 11190

As long as we're wishing, how about 1 each of the genuine KW transverter and VFO cables? I'll gladly accept all the 100's of these that have disappeared over the years.

Brent K7MEI

>From: "digs4ruff" <digs4ruff@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: For Sale Ads
>Date: Mon, 27 Nov 2006 23:23:48 -0000
>
>--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
> >
> > BTW, I'm looking for donations of an SM220 monitor scope!!
> >
> > Max VE3TMT
>
>Me too only I insist that I will only accept one with the pan adapter
>incuded.
>Barry
>VA7GEM
>

11191. Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-27 23:38:26 UTC
From: Gordon
Topic: 11179 Message: 11191

I'm not picky.
I'll accept any TS-520/530/820/830 radios and or parts and
accessories donations. Got a dead one lying around? Parts ? Please
Contact me. n6wk at n6wk.com

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff" <digs4ruff@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@> wrote:
> >
> > BTW, I'm looking for donations of an SM220 monitor scope!!
> >
> > Max VE3TMT
>
> Me too only I insist that I will only accept one with the pan adapter
> incuded.
> Barry
> VA7GEM
>

11192. RE: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 00:13:43 UTC
From: n9wb@nltc.net
Topic: 11170 Message: 11192

Keith:

Thank you for your comments and they were some good points. Some of the rules are due to bad experiences on other lists. I see a great amount of fine tuning of these rules as we see what happens. Some of those changes will likely address some of the concerns that you expressed.

I have seen situations where individuals joined every group that they could to advertise something that was way off topic and took the shotgun approach of barraging as many groups as possible with their posts. Then they posted daily or more often. After they disposed of their item, they unsubscribed from most of the groups. This is the kind of abuse I wish to avoid.

In the event that a newcomer wants to buy an item I am sure that we can find a way to accommodate this person. I think we are going to learn a lot.

Vy 73, Walt N9WB

Original Message:

From: Darwin, Keith keith.darwin@goodrich.com
Date: Mon, 27 Nov 2006 08:25:22 -0500
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

I'm rather baffled at the apparent concern that the list will be overrun by for sale ads. Think about this from a seller's perspective. If I have a roll of coax or an Icom rig to sell, why would I post it in a Kenwood Hybrids SIG list? Why limit my audience? Instead a smart seller will post it in a general place to hit the widest audience.

For that reason I believe that the ads you're likely to see here would naturally be Kenwood related and would therefore be rather infrequent. My experience on other lists is that for sale ads are not nearly the issue that folks fear they'll be.

I'm glad to see that this list at least has the flexibility and openness to discuss the topic on list and to adjust the rules accordingly. Bravo, BRAVO!!!

Now, as to the limit of posing ads no more frequently than every 14 days and only if you've been a member for 30 days - be prepared for issues. I can see it now, new person REALLY wants an 830s and joins the list. Their first post is an introduction post. Second post is a want ad for an 830s and now they're in violation of the 30 day rule. Or, someone just picked up a complete 820s system and is selling off their 520 station. They list the 520 and when it sells, then want to list the

rest of the accessories. Oops, that's 2 ads in less than 14 days.
These may sound like trivial things but good people have been lost from
other lists over issues just like these.

73 all!

- Keith N1AS -

---

mail2web - Check your email from the web at
http://mail2web.com/ .

11193. Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 00:21:54 UTC
From: digs4ruff
Topic: 11179 Message: 11193

Here we go.

I think this is what Walt was afraid of. More noise than enough and nothing to do with repairing radios.

regards
Barry

11194. Re: [TS-520_820_530_830] transverter for 830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 01:23:06 UTC
From: John Harp
Topic: 11175 Message: 11194

There is the TV-506 transverter for 6 meters and a TV-502 for 2 meters both meant to be an accessory to the TS-520, but it is adaptable to the 830.

The connector pinouts are located in the 830 owners manual and the 520 owners manual. Finding a cable for the 502 to 520 will take some time, unless your fortunate enough to get a cable over ebay or swap or if the unit already comes with one.

You could adapt it since one end is different to the 830. Connectors are hard to find for the transverter end. Thus a little creativeness is needed for the adaption. I myself am making a cable for the TV-502 to 830. I bought two without manuals or cable. One of which is moded and missing a top. I intend to use it for parts or change it up to 1.25 meters.

I got both for 80 and 50 bucks. A complete unit with cable and manual will cost more. Recently one sold for 175 and another for about 150. Watch ebay if your interested in going this way. I'm looking for a TV-506 next.

There are other transverters out there to use with the 830. Down East Microwave is a place to look. Some appear on ebay from time to time.Depends on what you want to work and what frequency you want to transvert to and from.

You have a good set up there. I have all those accessories with my 830's. I've operated 830 since the early 80's. Won't part with them either.

Feel free to ask questions and watch and learn. There's always something going on here. We may not know everything, but we'll give it a shot. It's an active group and growing. We have an archive provided by the members and for the members. It's a good resource, so look around and enjoy. welcome to the group. My name is John- KA3DPW. Back to you.

Michael Bellis <theloneprospector@...> wrote:
New to the group, been using HF gear for many years in aviation and
marine. Just now getting my amateur license and joining local club.
Have acquired complete 830 setup including;
vfo,ant.turner,sta.monitor,spk,and -50mic, ---would like any advise on
best transverter to add for 2m and 6m ops. or even uhf. 73 Michael
(theloneprospector in arizona).

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11195. Re: [TS-520_820_530_830] New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 01:47:05 UTC
From: John Harp
Topic: 11182 Message: 11195

Yes it's ok to say thier name. After all he got it ready for you didn't he. Now it's your turn. You get to learn and keep it going like the rest of us. Welcome to the group. Is it running good?

Philip Leonard WVØT <leolists@...> wrote: I'm happy to say I own a Kenwood hybrid radio again. I bought a TS-520S
new years ago but traded it in along the way. I bought the 830S from a
fellow member of this group (is it ok to say his name since it was
before those ads were officially allowed). Now if I could just find a
nice pair of 599D twins.

BTW, where is the KenwoodQSO group? I searched on yahoo groups but did
not find it.

73 de Philip

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11196. Re: [TS-520_820_530_830] For Sale Posts Rules

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 01:53:23 UTC
From: John Harp
Topic: 11169 Message: 11196

agreed. KA3DPW

n9wb <n9wb@...> wrote: The response has been overwhelming in favor of permitting for sale posts
with this group. We want this to be a Minor part of the traffic here.

Here are the rules. They are subject to change as necessary to avoid problems.

Rules pertaining to Occasional For Sale and Want to Buy Posts.

Members of the TS-520_820_530_830 Yahoo Group who have been members for at least 30 days may place for sale and want to buy posts no more frequently than two weeks. (14 days)

For sale posts may include sale of TS-510, 520, 820, 530, and 830 as well as Kenwood accessories intended for use with these radios. Posts relating to non-Kenwood accessories commonly used with these radios may be posted, but please use discretion.

Posts must include the make and model of the item for sale as well as an accurate description of its condition and the asking price.

When the item is sold, please make a short post to that effect.

Replies and discussions regarding these posts must be taken off of this group either by direct e-mail to the seller or To the KenwoodQSO group as directed by the seller.

Buyers and sellers are on their own. The TS-520_820_530_830 Yahoo Group its owners, moderators, or members other than the seller hold no responsibility for the accuracy of the posts or the credibility of the seller or buyer.

We do not expect that members of this group will misrepresent or in any way cheat other members. At the moderators discretion, we may choose to ban any member from making further for sale posts, or ban the member from this group entirely if we believe his posts or transactions are not of the utmost integrity.

We ask that those who buy and sell equipment as a main business not post here. We will allow posts from members who occasionally restore and sell equipment.

We expect our members to use discretion. If excessive traffic develops as a direct result of these postings, they may have to be discontinued.

Walter Breining, N9WB

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11197. RE: [TS-520_820_530_830] FS: TS-830s radio cover.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 02:16:00 UTC
From: Darwin, Keith
Topic: 11197 Message: 11197

I got a radio cover from radiocovers.com a couple of months back. Black denim material, says "Kenwood" on the front in red embroidery and "TS-830S" in gold under that. Very sharp looking.

Sell for $20 shipped con-U.S. Contact me at

kd1e (at) adelphia (dot) net

or

keith.darwin (at) goodrich [dot] com.

73!

- Keith -

[Non-text portions of this message have been removed]

11198. Re: 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 02:24:19 UTC
From: af4at2
Topic: 11166 Message: 11198

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Jim,
> What "IP" knob are you referring to on the back of the rdaio? The
SG
> bias or the RF adjustment?
>
> Gordon
> I tried adjusting the screen grid bias pot.
Jim

> --- In TS-520_820_530_830@yahoogroups.com, "af4at2" <af4at2@> wrote:
> >
> > Good evening all.
> >
> > A few months ago I got an 820 with digital display,
> > condition unknown.
> >
> > The receiver worked, the digital display was blank.
> >
> > By resoldering the connectors the display now works.
> >
> > I got brave and turned the heater switch on, then
> > switched to tune mode. I got a really high ip reading.
> > I turned the ip knob on the back of the rig fully
counterclockwise and
> > it was still pegging the meter in the tune mode.
> > Then I got the final tube melt down along with r3 & 3.
> >
> > I replaced all the resistors in the final area, all the rectifier
board
> > resistors. Put in a used (known working set of 6146's and 12by7.
> >
> > This time when I switched to tune mode I still had high ip reading
> > and there was a pop and smoke on the rf board (but the finals
seemed
> > to do ok.)
> >
> > On looking for physicaL evidence r-38 on the rf board is burned.
> >
> > Can someone give me a starting point to troubleshoot the rf board.
> >
> > Thanks
> > Jim af4at
> >

>

11199. Re: [TS-520_820_530_830] Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 02:24:00 UTC
From: John Harp
Topic: 11174 Message: 11199

Man can make the same mistake again if he has not learned from history the first time.

n9wb <n9wb@...> wrote: Try to find the book " Practical Wireless telegraphy". You will be amazed by what was done by mechanical means. It is hard to understand the new if you do not understand the olde.
I never learned DOS. I am not very good at computer programs.

Vy 73, Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 7:02 AM
Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Walt,

You have made a very sensible and important suggestion i.e., collect
those books. Over the years I have 'grabbed' and hoarded every Ham
Radio book I could get my hands on. The only regret you will have is
that you never have enough time to read them. I have books going back
to the 1920's, including one where wireless experimentation consists
of a home made spark transmitter and a coherer!

Remember, that until the 1940's science teachers were still teaching
that current flowed from positive to negative despite John Fleming's
invention of the Diode in 1904 proving them wrong.

Sadly, the young folk of today think that they know it all, when in
fact they lack a lot of the history!

73 Ron G8URU

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 27, 2006 7:40 AM
Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to
the antenna when...

Frank:
You made my day.

Speaking of publications, somebody asked me what to look for at
Hamfests in
the way of technical material. I will make these suggestions.

Look for any used ARRL handbook, no matter what year.
Look for ARRL Antenna Handbooks no matter what year.
By no matter what year I am talking very olde to current.

Radio Handbook by Bill Orr. Any edition

Here is an interesting web site http://www.cebik.com/radio.html

It will provide you with a lot of interesting reading.

I also want to thank all of those who are contributing to this group with
advice and information. All of us working together passing on our knowledge
and experience will enable others to revive some of these great olde rigs
and revive the technical aspect of Amateur Radio.

We have heard about the olde days when the local hams mentored (Elmered)
aspiring ham on a one on one basis. In today's world this is more difficult.
It seemed that this was a dying art. But with the internet, one ham can
Elmer another anywhere in the world and one ham can have access to the knowlege of many Elmers.

I do not believe that God gave us knowledge to hoard. As we gain knowledge,
we are to pass it on to others.

Vy 73, Walt N9WB

----- Original Message -----
From: Valued Customer
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 12:48 AM
Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...

Walt, you are so awesome. You should write a book based upon the content you've provided to the Yahoo groups! Thank you so much for your education. I'm sure I speak for many when I say, Thank you.

Frank, K2NCC

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Antenna feedline has a loss figure per 100 ft. .... [snip]

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date: 11/27/06

[Non-text portions of this message have been removed]

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11200. Re: [TS-520_820_530_830] Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 01:43:38 UTC
From: John Harp
Topic: 11160 Message: 11200

Hi James,
Looks like we may get company soon with transverters James. Gonna start on mine soon. just got plastic up on the windows in the shack.

Heat is next. Get the mic going and the phone patch and the transverter.

Bought stuff to make the cable with, but not all of it yet.

Bought a battery and solar regulator for solar addition solar panel is asked for in the christmas wish list. This winter will be a pleasant one occupied in free time getting this all together and on the air too.

This year is turning out to be a good year after all. Better job, better pay and more free time. I needed this.

james27613 <james27613@...> wrote:
hi,

You've already have this info but I am posting this
for future searches on vfo-520 cable questions.

in the files section on this forum there is
info on how to build your own cable.

73 james ke4drn

PS Hi John, btw I'm in the witness protection program !!
Only kidding. 73

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11201. Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 02:57:21 UTC
From: w5rkl
Topic: 11174 Message: 11201

I thoroughly enjoy reading old ham magazines, articles and handbooks. There is a wealth of information in the magazines, articles and old books.

My station is comprised mostly of vintage gear. Keeping them operating takes alot of work and reading but that's what makes it so much fun and educational.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Man can make the same mistake again if he has not learned from history the first time.
>
> n9wb <n9wb@...> wrote: Try to find the book " Practical Wireless telegraphy". You will be amazed by what was done by mechanical means. It is hard to understand the new if you do not understand the olde.
> I never learned DOS. I am not very good at computer programs.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 27, 2006 7:02 AM
> Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...
>
> Walt,
>
> You have made a very sensible and important suggestion i.e., collect
> those books. Over the years I have 'grabbed' and hoarded every Ham
> Radio book I could get my hands on. The only regret you will have is
> that you never have enough time to read them. I have books going back
> to the 1920's, including one where wireless experimentation consists
> of a home made spark transmitter and a coherer!

>
> Remember, that until the 1940's science teachers were still
teaching
> that current flowed from positive to negative despite John
Fleming's
> invention of the Diode in 1904 proving them wrong.
>
> Sadly, the young folk of today think that they know it all, when in
> fact they lack a lot of the history!
>
> 73 Ron G8URU
>
> ----- Original Message -----
> From: "n9wb" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, November 27, 2006 7:40 AM
> Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency
to
> the antenna when...
>
> Frank:
> You made my day.
>
> Speaking of publications, somebody asked me what to look for at
> Hamfests in
> the way of technical material. I will make these suggestions.
>
> Look for any used ARRL handbook, no matter what year.
> Look for ARRL Antenna Handbooks no matter what year.
> By no matter what year I am talking very olde to current.
>
> Radio Handbook by Bill Orr. Any edition
>
> Here is an interesting web site http://www.cebik.com/radio.html
>
> It will provide you with a lot of interesting reading.
>
> I also want to thank all of those who are contributing to this
group
> with
> advice and information. All of us working together passing on our
> knowledge
> and experience will enable others to revive some of these great
olde
> rigs
> and revive the technical aspect of Amateur Radio.
>
> We have heard about the olde days when the local hams mentored
> (Elmered)
> aspiring ham on a one on one basis. In today's world this is more

> difficult.
> It seemed that this was a dying art. But with the internet, one ham
> can
> Elmer another anywhere in the world and one ham can have access to
the
> knowlege of many Elmers.
>
> I do not believe that God gave us knowledge to hoard. As we gain
> knowledge,
> we are to pass it on to others.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Valued Customer
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 27, 2006 12:48 AM
> Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to
the
> antenna when...
>
> Walt, you are so awesome. You should write a book based upon the
> content you've provided to the Yahoo groups! Thank you so much for
> your education. I'm sure I speak for many when I say, Thank you.
>
> Frank, K2NCC
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Antenna feedline has a loss figure per 100 ft. .... [snip]
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date:
11/27/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
> ---------------------------------
> Access over 1 million songs - Yahoo! Music Unlimited.
>
> [Non-text portions of this message have been removed]
>

11202. Re: [TS-520_820_530_830] 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 02:16:31 UTC
From: John Harp
Topic: 11166 Message: 11202

My initial response at this point is:

1) replace R38 and see what it is for.

2) look over the entire plate circuit thoroughly and clean if need be to be sure to see everything, a good going over. Somethings pulling alot of current on the plates. Look your chokes over good too.

3) Watch and check over the power supply. If need be do save the transformer.

See what comes back for response.

af4at2 <af4at2@...> wrote:
Good evening all.

A few months ago I got an 820 with digital display,
condition unknown.

The receiver worked, the digital display was blank.

By resoldering the connectors the display now works.

I got brave and turned the heater switch on, then
switched to tune mode. I got a really high ip reading.
I turned the ip knob on the back of the rig fully counterclockwise and
it was still pegging the meter in the tune mode.
Then I got the final tube melt down along with r3 & 3.

I replaced all the resistors in the final area, all the rectifier board
resistors. Put in a used (known working set of 6146's and 12by7.

This time when I switched to tune mode I still had high ip reading
and there was a pop and smoke on the rf board (but the finals seemed
to do ok.)

On looking for physicaL evidence r-38 on the rf board is burned.

Can someone give me a starting point to troubleshoot the rf board.

Thanks
Jim af4at

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11203. TS-520 2SC856 transistor replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 01:59:18 UTC
From: Karl Schwab
Topic: 11203 Message: 11203

Fellow TS-520 guys; My loss of ALC in my TS-520 'could be' because of a bad Q10, 2SC856 transistor on the RF board. In looking at Q10 on the board, it looks like it might take a 'bit of doing' to get it off of the board; my though is take it off from the top so as not to get into 'to much trouble'in trying to remove the board! In looking on the Internet for a source for this transistor, it appears to be a discontinued item. I would like to know if any of you might have a source for a replacement? As always, thanks for your help. 73, de KO8S, Karl

---
Yahoo! Music Unlimited
Access over 1 million songs.
http://music.yahoo.com/unlimited

11204. Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 03:34:30 UTC
From: Noel Spears
Topic: 11160 Message: 11204

--- In TS-520_820_530_830@yahoogroups.com, "james27613"
<james27613@...> wrote:
>
> hi,
>
> You've already have this info but I am posting this
> for future searches on vfo-520 cable questions.
>
> in the files section on this forum there is
> info on how to build your own cable.
>
> 73 james ke4drn
>

There is a file on the TS-820 VFO cable, but, nothing for the 520. Also, it appears that the TS-520 needs a 8 pin plug, while the VFO-520S requires a 9 pin plug. I will not be able to wire them in a 1 to 1 sequence.

I suspect that you may have missed the fact that I am attempting to use an "S" VFO on a plain TS-520. This is why I asked if it will work, and if anyone on this group has used this particular set-up?

Noel N2FAV

11205. Re: [TS-520_820_530_830] TS-520 2SC856 transistor replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 04:31:56 UTC
From: Dennis Windle
Topic: 11203 Message: 11205

Karl;
Replacement for the 2SC856 is a NTE-156 http://nteinc.com

D.Windle

----- Original Message -----
From: Karl Schwab
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 8:59 PM
Subject: [TS-520_820_530_830] TS-520 2SC856 transistor replacement

Fellow TS-520 guys; My loss of ALC in my TS-520 'could
be' because of a bad Q10, 2SC856 transistor on the RF
board. In looking at Q10 on the board, it looks like
it might take a 'bit of doing' to get it off of the
board; my though is take it off from the top so as not
to get into 'to much trouble'in trying to remove the
board! In looking on the Internet for a source for
this transistor, it appears to be a discontinued item.
I would like to know if any of you might have a
source for a replacement? As always, thanks for your
help. 73, de KO8S, Karl

_____
Yahoo! Music Unlimited
Access over 1 million songs.
http://music.yahoo.com/unlimited

[Non-text portions of this message have been removed]

11206. FS: MC-35S Noise-cancelling microphone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 05:20:13 UTC
From: Jim
Topic: 11206 Message: 11206

In accordance with the new policy, I'm offering for sale an accessory I received with my TS-530SP.

It's the Kenwood MC-35S noise-cancelling hand microphone, brand new and unused, still in the plastic sleeve in the box. I've never used it and never will, so it's available.

These mics are rare, and a brand new one is next to impossible to find. I'll double-box it and ship it in the continental U.S. for a postal money order for $65.

Please contact me off the forum. I'm OK in QRZ.com.

73, Jim KM5M

From N9WB:
This is a high Z dynamic hand mike. The manual is posted in the Files section of the KenwoodMics Yahoo group.

11207. Re: [TS-520_820_530_830] Re: 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 08:41:18 UTC
From: n9wb
Topic: 11166 Message: 11207

Jim:
Just for the sake of being correct, this is the control grid bias pot. Walt
N9WB

----- Original Message -----
From: af4at2
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 9:24 PM
Subject: [TS-520_820_530_830] Re: 820 rf board question

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Jim,
> What "IP" knob are you referring to on the back of the rdaio? The
SG
> bias or the RF adjustment?
>
> Gordon
> I tried adjusting the screen grid bias pot.
Jim

11208. Re: [TS-520_820_530_830] TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 10:06:04 UTC
From: n9wb
Topic: 11139 Message: 11208

The output of this rig depends on the line voltage when you are keyed down. If you are using an extension cord or an outlet strip this may be reducing the line voltage. If into a dummy load you can get 85 watts on 28.350, and 100 watts on 40 meters, I would leave it alone. Especially if you have S-2001's installed. If your line voltage is less than 117 volts, 100 watts is real good. Remember, you would have to drop to 50 watts to loose 1/2 S unit.

Vy 73, Walt N9WB

----- Original Message -----
From: cprocny
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 10:53 AM
Subject: [TS-520_820_530_830] TS-820S Final Tubes replacement?

Hello to All
I'm new in this group, recently upgraded to General and purchased a TS-820S XCVR which works fine but it puts out ~100W in CW. I wonder if this is an indication that I should start thinking on replace the final tubes. The manual calls for S2001 tubes which I think are obsolete. Is there any drop-in replacement for those tubes?

73 de Marcelo N2YHQ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date: 11/25/06

[Non-text portions of this message have been removed]

11209. Re: [TS-520_820_530_830] New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 13:56:26 UTC
From: Philip Leonard WVØT
Topic: 11182 Message: 11209

His name is Joe K7MKS. The radio is great and Joe is a fine example of
the ham radio fraternity.

Philip

John Harp wrote:
> Yes it's ok to say thier name. After all he got it ready for you didn't he. Now it's your turn. You get to learn and keep it going like the rest of us. Welcome to the group. Is it running good?
>
> Philip Leonard WV?T <leolists@...> wrote: I'm happy to say I own a Kenwood hybrid radio again. I bought a TS-520S
> new years ago but traded it in along the way. I bought the 830S from a
> fellow member of this group (is it ok to say his name since it was
> before those ads were officially allowed). Now if I could just find a
> nice pair of 599D twins.
>
> BTW, where is the KenwoodQSO group? I searched on yahoo groups but did
> not find it.
>
> 73 de Philip
>
>
>
>
>
> ---------------------------------
> Access over 1 million songs - Yahoo! Music Unlimited.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

11210. Re: FS: MC-35S Noise-cancelling microphone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 14:47:35 UTC
From: Ellen R
Topic: 11206 Message: 11210

I wish I had the money for it. I had one of those back in college, when I had my TS-520S. I also used it with my FT-101B. That's a good mic. If I remember right, It has a toggle switch of sorts on top of the mic, to activate the noise cancelling circuitry. Oh well.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jim" <we5f@...> wrote:
>
> In accordance with the new policy, I'm offering for sale an accessory I
> received with my TS-530SP.
>
> It's the Kenwood MC-35S noise-cancelling hand microphone, brand new and
> unused, still in the plastic sleeve in the box. I've never used it and
> never will, so it's available.
>
> These mics are rare, and a brand new one is next to impossible to
> find. I'll double-box it and ship it in the continental U.S. for a
> postal money order for $65.
>
> Please contact me off the forum. I'm OK in QRZ.com.
>
> 73, Jim KM5M
>
> From N9WB:
> This is a high Z dynamic hand mike. The manual is posted in the Files section of the KenwoodMics Yahoo group.
>

11211. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 14:40:54 UTC
From: cprocny
Topic: 11139 Message: 11211

Walt,

I agree with you, and since the rig is working fine I should not touch it. I will take a look inside to see if the radio has S-2001 or 6146 tubes.

73 de Marcelo N2YHQ

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> The output of this rig depends on the line voltage when you are keyed down. If you are using an extension cord or an outlet strip this may be reducing the line voltage. If into a dummy load you can get 85 watts on 28.350, and 100 watts on 40 meters, I would leave it alone. Especially if you have S-2001's installed. If your line voltage is less than 117 volts, 100 watts is real good. Remember, you would have to drop to 50 watts to loose 1/2 S unit.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: cprocny
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 26, 2006 10:53 AM
> Subject: [TS-520_820_530_830] TS-820S Final Tubes replacement?
>
>
> Hello to All
> I'm new in this group, recently upgraded to General and purchased a TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the final
> tubes. The manual calls for S2001 tubes which I think are obsolete. Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>
>
>
>
>

> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date:
11/25/06
>
>
> [Non-text portions of this message have been removed]
>

11212. Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 16:31:55 UTC
From: james27613
Topic: 11160 Message: 11212

hi Noel,

the vfo uses the 9 pin socket on the rear of the 520x or 820x models,
the 8 pin (larger) socket is for amplifier (and alc) connections.

the cable is straight 1-1...9-9 pin 7 not used.

the IF for the 520 and 520s are equal so you can use the vfo.

(anyone please correct me if I am wrong !)

73 james

> There is a file on the TS-820 VFO cable, but, nothing for the 520.
> Also, it appears that the TS-520 needs a 8 pin plug, while the VFO-
> 520S requires a 9 pin plug. I will not be able to wire them in a 1
> to 1 sequence.
>
> I suspect that you may have missed the fact that I am attempting to
> use an "S" VFO on a plain TS-520. This is why I asked if it will
> work, and if anyone on this group has used this particular set-up?
>
> Noel N2FAV
>

11213. Re: 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 17:32:00 UTC
From: Gordon
Topic: 11166 Message: 11213

Thanks for catching and correcting that Walt.
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Jim:
> Just for the sake of being correct, this is the control grid bias
pot. Walt
> N9WB
>
> ----- Original Message -----
> From: af4at2
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 27, 2006 9:24 PM
> Subject: [TS-520_820_530_830] Re: 820 rf board question
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Jim,
> > What "IP" knob are you referring to on the back of the rdaio? The
> SG
> > bias or the RF adjustment?
> >
> > Gordon
> > I tried adjusting the screen grid bias pot.
> Jim
>

11214. RE: [TS-520_820_530_830] Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 16:34:52 UTC
From: BRENT BAUM
Topic: 11160 Message: 11214

Noel,
The "S" model VFO is the same as the regular 520 VFO except for the back plate on the frequency dial; it's gray to match the panel on the 520S, whereas the 520 and VFO-520 have white back panels. Aren't cosmetics nice?

The VFO connects to the small nine pin connector on the upper right of your back panel, not to the larger, usually brown colored, 8 ping remote connector below it. If you have an 8 pin connector in the upper right location your radio has a modification of some sort. Also, only 8 of the 9 pins are used in the cable and the connectors. If I remember correctly pin 7 is actually "floating" so you can use a 4 pair cable, I used some 4 pair LAN cable to make my connection. Just be sure that the floating pin is the same one on both ends.

My station set up includes TS-520SE, VFO-520S, SP-520, DG-5, and a TV-506.

Good luck,
73 de K7MEI Brent

>From: "Noel Spears" <Noel@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Will a VFO-520S work on a TS-520?
>Date: Tue, 28 Nov 2006 03:34:30 -0000
>
>--- In TS-520_820_530_830@yahoogroups.com, "james27613"
><james27613@...> wrote:
> >
> > hi,
> >
> > You've already have this info but I am posting this
> > for future searches on vfo-520 cable questions.
> >
> > in the files section on this forum there is
> > info on how to build your own cable.
> >
> > 73 james ke4drn
> >
>
>
>There is a file on the TS-820 VFO cable, but, nothing for the 520.
>Also, it appears that the TS-520 needs a 8 pin plug, while the VFO-
>520S requires a 9 pin plug. I will not be able to wire them in a 1
>to 1 sequence.
>
>I suspect that you may have missed the fact that I am attempting to

>use an "S" VFO on a plain TS-520. This is why I asked if it will
>work, and if anyone on this group has used this particular set-up?
>
>Noel N2FAV
>

11215. Re: [TS-520_820_530_830] Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 19:11:27 UTC
From: Another Old Codger
Topic: 11179 Message: 11215

Mine has the Pan-Adaptor, but for some reason the data showing how to connect it to a TS-530 is not in the manual, so my fitting is bit of a bodge. The PCB appears to have pads, but I do not have details of the components needed.

Please, has anyone attached an SM-220 to a TS-530?

Ron G8URU.

----- Original Message -----
From: "digs4ruff" <digs4ruff@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 27, 2006 11:23 PM
Subject: [TS-520_820_530_830] Re: For Sale Ads

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...>
wrote:
>
> BTW, I'm looking for donations of an SM220 monitor scope!!
>
> Max VE3TMT

Me too only I insist that I will only accept one with the pan adapter incuded.
Barry
VA7GEM

11216. TS530s Bandswitch Coupler.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 19:59:26 UTC
From: rodgerbryce
Topic: 11216 Message: 11216

I have ordered the new coupler and some other bits that I required from Ken K4AEe. Can anyone in the group please explain to me how to align the shaft from the bandswitch to the shaft in the PA compartment, any help is appreciated.
73 de Rodger GM3JOB.

11217. Re: [TS-520_820_530_830] TS530s Bandswitch Coupler.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 21:12:24 UTC
From: Max Harelik
Topic: 11216 Message: 11217

This is in the group files, courtesy of Cliff(at)Avvid(dot)com:

To align the bandswitch sections;

Put the radio on 10Mhz. The flats on the shaft should be vertical.
Check the shaft in the final compartment. There should be a flat to
the outside (right side of radio viewed from front) and one to the
bottom. This is the correct alignment.

rodgerbryce wrote:

> I have ordered the new coupler and some other bits that I required from
> Ken K4AEe. Can anyone in the group please explain to me how to align
> the shaft from the bandswitch to the shaft in the PA compartment, any
> help is appreciated.
> 73 de Rodger GM3JOB.
>
>

[Non-text portions of this message have been removed]

11218. Re: [TS-520_820_530_830] Re: FS: MC-35S Noise-cancelling microphone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 22:09:27 UTC
From: David S Lund (KB5DRJ)
Topic: 11206 Message: 11218

On Nov 28, 2006, at 8:47 AM, Ellen R wrote:
> >I wish I had the money for it. I had one of those back in college,

I have one of those also. Great little hand mic!

David KB5DRJ

11219. Re: [TS-520_820_530_830] Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 22:16:23 UTC
From: Peter A Markavage
Topic: 10916 Message: 11219

Besides a lot of Ham stuff that used 6146/6146A's back when, a lot of the land/mobile equipment also used them. I cannot recall any hamfest over the last several years where I didn't see at least one vendor selling 6146's. If you're into 6146's with 12 volt filaments, there's also the 6883's.

Pete, wa2cwa

On Tue, 14 Nov 2006 14:42:29 -0000 "digs4ruff" <digs4ruff@...> writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:
> > BTW - you metioned in one of your posts, about 6146s & 6146As being
> > cheaper. I don't see how that could be so, considering that these
> >
> > earlier 6146 tube versions were discontinued over 40 plus years ago.
> > I would think that they would be as scarce (if not more so), than
> >
> the
> > basic 6146B, and as such would cost as much (maybe even more) as a
> >
> > 6146B. Do you have a bunch of them laying around that you can use?
> > >
> > > 73,
> > > Ellen - AF9J
> >
> Ellen
> Have a look at FleaBay. The 6146Bs go for 25-45 dollars per pair.
> The 6146/6146A tubes regularly sell at under $10 per pair. Most do
> claim to have tested the tubes. If untested pay less than a couple
> of bucks and take a chance. It would seem that price depends a lot
> on demand.
> regards
> Barry

11220. MC-30S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 23:06:45 UTC
From: jsloss
Topic: 11220 Message: 11220

What is the difference between the MC-35S and MC-30S which also is noise cancelling.

Joe k7mks

[Non-text portions of this message have been removed]

11221. Re: [TS-520_820_530_830] Re: The tube question again

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:16:00 UTC
From: John Harp
Topic: 10916 Message: 11221

Can you still get 6883's? I haven't seen those in a long time.

Peter A Markavage <pmarkavage@...> wrote: Besides a lot of Ham stuff that used 6146/6146A's back when, a lot of the
land/mobile equipment also used them. I cannot recall any hamfest over
the last several years where I didn't see at least one vendor selling
6146's. If you're into 6146's with 12 volt filaments, there's also the
6883's.

Pete, wa2cwa

On Tue, 14 Nov 2006 14:42:29 -0000 "digs4ruff" <digs4ruff@...>
writes:
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
> > BTW - you metioned in one of your posts, about 6146s & 6146As
> being
> > cheaper. I don't see how that could be so, considering that these
> >
> > earlier 6146 tube versions were discontinued over 40 plus years
> ago.
> > I would think that they would be as scarce (if not more so), than
> >
> the
> > basic 6146B, and as such would cost as much (maybe even more) as a
> >
> > 6146B. Do you have a bunch of them laying around that you can
> use?
> >
> > 73,
> > Ellen - AF9J
> >
> Ellen
> Have a look at FleaBay. The 6146Bs go for 25-45 dollars per pair.
> The 6146/6146A tubes regularly sell at under $10 per pair. Most do
> claim to have tested the tubes. If untested pay less than a couple
> of bucks and take a chance. It would seem that price depends a lot
> on demand.
> regards
> Barry

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11222. Re: [TS-520_820_530_830] MC-30S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-28 23:56:07 UTC
From: jsloss
Topic: 11220 Message: 11222

I figured it out - one is high impedance and one is low.

Joe k7mks
----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 28, 2006 3:06 PM
Subject: [TS-520_820_530_830] MC-30S

What is the difference between the MC-35S and MC-30S which also is noise cancelling.

Joe k7mks

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11223. Re: [TS-520_820_530_830] Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:17:23 UTC
From: John Harp
Topic: 11179 Message: 11223

I'd like to see it for my 830.

Another Old Codger <clattering.ford@...> wrote: Mine has the Pan-Adaptor, but for some reason the data showing how to
connect it to a TS-530 is not in the manual, so my fitting is bit of a
bodge. The PCB appears to have pads, but I do not have details of the
components needed.

Please, has anyone attached an SM-220 to a TS-530?

Ron G8URU.

----- Original Message -----
From: "digs4ruff" <digs4ruff@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, November 27, 2006 11:23 PM
Subject: [TS-520_820_530_830] Re: For Sale Ads

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...>
wrote:
>
> BTW, I'm looking for donations of an SM220 monitor scope!!
>
> Max VE3TMT

Me too only I insist that I will only accept one with the pan adapter
incuded.
Barry
VA7GEM

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11224. Re: [TS-520_820_530_830] New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:29:00 UTC
From: John Harp
Topic: 11182 Message: 11224

Remember Phillip, were all here to help each other. We did then and today we still do. Now go enjoy your new found love. se you on the air.

Philip Leonard WVØT <leolists@...> wrote: His name is Joe K7MKS. The radio is great and Joe is a fine example of
the ham radio fraternity.

Philip

John Harp wrote:
> Yes it's ok to say thier name. After all he got it ready for you didn't he. Now it's your turn. You get to learn and keep it going like the rest of us. Welcome to the group. Is it running good?
>
> Philip Leonard WVØT <leolists@...> wrote: I'm happy to say I own a Kenwood hybrid radio again. I bought a TS-520S
> new years ago but traded it in along the way. I bought the 830S from a
> fellow member of this group (is it ok to say his name since it was
> before those ads were officially allowed). Now if I could just find a
> nice pair of 599D twins.
>
> BTW, where is the KenwoodQSO group? I searched on yahoo groups but did
> not find it.
>
> 73 de Philip
>
>
>
>
>
> ---
> Access over 1 million songs - Yahoo! Music Unlimited.
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11225. Re: [TS-520_820_530_830] Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:26:54 UTC
From: John Harp
Topic: 11139 Message: 11225

While your in there have a look around. It's good to know what it looked like last time you were in there.

cprocny <n2yhq@...> wrote: Walt,

I agree with you, and since the rig is working fine I should not touch it. I will take a look inside to see if the radio has S-2001 or 6146 tubes.

73 de Marcelo N2YHQ

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> The output of this rig depends on the line voltage when you are keyed down. If you are using an extension cord or an outlet strip this may be reducing the line voltage. If into a dummy load you can get 85 watts on 28.350, and 100 watts on 40 meters, I would leave it alone. Especially if you have S-2001's installed. If your line voltage is less than 117 volts, 100 watts is real good. Remember, you would have to drop to 50 watts to loose 1/2 S unit.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: cprocny
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 26, 2006 10:53 AM
> Subject: [TS-520_820_530_830] TS-820S Final Tubes replacement?
>
>
> Hello to All
> I'm new in this group, recently upgraded to General and purchased a TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder if
> this is an indication that I should start thinking on replace the final
> tubes. The manual calls for S2001 tubes which I think are obsolete. Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>
>
>

>
>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date:
11/25/06
>
>
> [Non-text portions of this message have been removed]
>

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11226. Re: [TS-520_820_530_830] Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:13:00 UTC
From: John Harp
Topic: 11160 Message: 11226

I think your right James. That's why I gave the info I did, so Noel can check it.

james27613 <james27613@...> wrote: hi Noel,

the vfo uses the 9 pin socket on the rear of the 520x or 820x models,
the 8 pin (larger) socket is for amplifier (and alc) connections.

the cable is straight 1-1...9-9 pin 7 not used.

the IF for the 520 and 520s are equal so you can use the vfo.

(anyone please correct me if I am wrong !)

73 james

> There is a file on the TS-820 VFO cable, but, nothing for the 520.
> Also, it appears that the TS-520 needs a 8 pin plug, while the VFO-
> 520S requires a 9 pin plug. I will not be able to wire them in a 1
> to 1 sequence.
>
> I suspect that you may have missed the fact that I am attempting to
> use an "S" VFO on a plain TS-520. This is why I asked if it will
> work, and if anyone on this group has used this particular set-up?
>
> Noel N2FAV
>

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11227. Re: [TS-520_820_530_830] TS530s Bandswitch Coupler.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 00:55:53 UTC
From: Ken Winterling
Topic: 11216 Message: 11227

Rodger,

I am considering placing an order with K4AEE for those bandswitch
couplers. What is his price for them?

Thanks,

Ken, WA2LBI

On 11/28/06, rodgerbryce <gm3job@...> wrote:
> I have ordered the new coupler and some other bits that I required from
> Ken K4AEe. Can anyone in the group please explain to me how to align
> the shaft from the bandswitch to the shaft in the PA compartment, any
> help is appreciated.
> 73 de Rodger GM3JOB.
>
>

11228. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:44:46 UTC
From: John Harp
Topic: 11174 Message: 11228

Actually my ARRL Antenna book has been likea bible to me for antennas over the years. And recently the stuff I read has been enhanced upon by the webpages since. It may look yellowed and old and taped over tapeand pages still fall out. But I still want and use it.

w5rkl <w5rkl@...> wrote:
I thoroughly enjoy reading old ham magazines, articles and handbooks. There is a wealth of information in the magazines, articles and old books.

My station is comprised mostly of vintage gear. Keeping them operating takes alot of work and reading but that's what makes it so much fun and educational.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Man can make the same mistake again if he has not learned from history the first time.
>
> n9wb <n9wb@...> wrote: Try to find the book " Practical Wireless telegraphy". You will be amazed by what was done by mechanical means. It is hard to understand the new if you do not understand the olde.
> I never learned DOS. I am not very good at computer programs.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 27, 2006 7:02 AM
> Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency to the antenna when...
>
> Walt,
>
> You have made a very sensible and important suggestion i.e., collect
> those books. Over the years I have 'grabbed' and hoarded every Ham
> Radio book I could get my hands on. The only regret you will have is

> that you never have enough time to read them. I have books going
back
> to the 1920's, including one where wireless experimentation
consists
> of a home made spark transmitter and a coherer!
>
> Remember, that until the 1940's science teachers were still
teaching
> that current flowed from positive to negative despite John
Fleming's
> invention of the Diode in 1904 proving them wrong.
>
> Sadly, the young folk of today think that they know it all, when in
> fact they lack a lot of the history!
>
> 73 Ron G8URU
>
> ----- Original Message -----
> From: "n9wb" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Monday, November 27, 2006 7:40 AM
> Subject: Re: [TS-520_820_530_830] Re: am I losing power/efficiency
to
> the antenna when...
>
> Frank:
> You made my day.
>
> Speaking of publications, somebody asked me what to look for at
> Hamfests in
> the way of technical material. I will make these suggestions.
>
> Look for any used ARRL handbook, no matter what year.
> Look for ARRL Antenna Handbooks no matter what year.
> By no matter what year I am talking very olde to current.
>
> Radio Handbook by Bill Orr. Any edition
>
> Here is an interesting web site http://www.cebik.com/radio.html
>
> It will provide you with a lot of interesting reading.
>
> I also want to thank all of those who are contributing to this
group
> with
> advice and information. All of us working together passing on our
> knowledge
> and experience will enable others to revive some of these great
olde
> rigs

> and revive the technical aspect of Amateur Radio.
>
> We have heard about the olde days when the local hams mentored
> (Elmered)
> aspiring ham on a one on one basis. In today's world this is more
> difficult.
> It seemed that this was a dying art. But with the internet, one ham
> can
> Elmer another anywhere in the world and one ham can have access to
the
> knowlege of many Elmers.
>
> I do not believe that God gave us knowledge to hoard. As we gain
> knowledge,
> we are to pass it on to others.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Valued Customer
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 27, 2006 12:48 AM
> Subject: [TS-520_820_530_830] Re: am I losing power/efficiency to
the
> antenna when...
>
> Walt, you are so awesome. You should write a book based upon the
> content you've provided to the Yahoo groups! Thank you so much for
> your education. I'm sure I speak for many when I say, Thank you.
>
> Frank, K2NCC
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Antenna feedline has a loss figure per 100 ft. .... [snip]
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date:
11/27/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>

> ---------------------------------
> Access over 1 million songs - Yahoo! Music Unlimited.
>
> [Non-text portions of this message have been removed]
>

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11229. Re: [TS-520_820_530_830] Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:48:57 UTC
From: John Harp
Topic: 11179 Message: 11229

Well all, lets prove it wrong, here we go. Do it right and keep him smiling. He did it for us.

digs4ruff <digs4ruff@...> wrote: Here we go.

I think this is what Walt was afraid of. More noise than enough and
nothing to do with repairing radios.

regards
Barry

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11230. Re: [TS-520_820_530_830] TS530s Bandswitch Coupler.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 02:12:45 UTC
From: John Harp
Topic: 11216 Message: 11230

Roger, I believe the price is set on the website. You may look and see. There are other tihngs there too. I saw it before. Ken does a nice job.

Ken Winterling <wa2lbi@...> wrote: Rodger,

I am considering placing an order with K4AEE for those bandswitch
couplers. What is his price for them?

Thanks,

Ken, WA2LBI

On 11/28/06, rodgerbryce <gm3job@...> wrote:
> I have ordered the new coupler and some other bits that I required from
> Ken K4AEe. Can anyone in the group please explain to me how to align
> the shaft from the bandswitch to the shaft in the PA compartment, any
> help is appreciated.
> 73 de Rodger GM3JOB.
>
>

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11231. Re: [TS-520_820_530_830] TS530s Bandswitch Coupler.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 02:29:05 UTC
From: Ruben Echevarria
Topic: 11216 Message: 11231

Ken Kemski's call is K4EAA ..... web site is www.k4eaa.com

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: John Harp <ka3dpw@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 28, 2006 9:12:45 PM
Subject: Re: [TS-520_820_530_830] TS530s Bandswitch Coupler.

Roger, I believe the price is set on the website. You may look and see. There are other tihngs there too. I saw it before. Ken does a nice job.

Ken Winterling <wa2lbi@frontiernet. net> wrote: Rodger,

I am considering placing an order with K4AEE for those bandswitch
couplers. What is his price for them?

Thanks,

Ken, WA2LBI

On 11/28/06, rodgerbryce <gm3job@hotmail. com> wrote:
> I have ordered the new coupler and some other bits that I required from
> Ken K4AEe. Can anyone in the group please explain to me how to align
> the shaft from the bandswitch to the shaft in the PA compartment, any
> help is appreciated.
> 73 de Rodger GM3JOB.
>
>

------------ --------- --------- ---
Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11232. Re: [TS-520_820_530_830] Re: New TS-830S owner

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 02:17:44 UTC
From: John Harp
Topic: 11182 Message: 11232

The Kenwood QSO group is a sister group made of some of the same members as this group. There is a mics group too.

For the details contact a moderator or the group owner for the details on getting started. John-KA3DPW. That was a good question thank you.

digs4ruff <digs4ruff@...> wrote:
http://groups.yahoo.com/group/KenwoodQSO/messages
Barry

--- In TS-520_820_530_830@yahoogroups.com, Philip Leonard WVØT
<leolists@...> wrote:
>
> I'm happy to say I own a Kenwood hybrid radio again. I bought a
TS-520S
> new years ago but traded it in along the way. I bought the 830S
from a
> fellow member of this group (is it ok to say his name since it was
> before those ads were officially allowed). Now if I could just
find a
> nice pair of 599D twins.
>
> BTW, where is the KenwoodQSO group? I searched on yahoo groups
but did
> not find it.
>
> 73 de Philip
>

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11233. TS-830S with LED'S lit all the time

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 03:04:55 UTC
From: davewalinski
Topic: 11233 Message: 11233

I have a TS-830S that the both LED lights on the RIT
and the LED on the RF attenuator are lit all the time
reguardless of weather the RIT or RF Attn. switches are actually on or
not.
The radio otherwise works great. Also the led's are a slight bit dimmer
with switches off then reach regular brilliance with switchs on.
Any one else have this problem? Thank you.

Dave
WB8SHV

11234. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 03:30:47 UTC
From: james27613
Topic: 11139 Message: 11234

hi marcelo,

if you have not done so already, put a few drops of
oil in the cooling fan bearings when you are inside the cage.

73 james ke4drn

> I agree with you, and since the rig is working fine I should not
> touch it. I will take a look inside to see if the radio has S-2001
> or 6146 tubes.
>
> 73 de Marcelo N2YHQ

11235. Re: The tube question (6883 12V)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 03:37:47 UTC
From: james27613
Topic: 10916 Message: 11235

hi,

$ 20 each surplus sales for 6883 tube RCA

http://www.surplussales.com/Tubes-Sock-Acc/TubesListed_100up.html

> Can you still get 6883's? I haven't seen those in a long time

73 james ke4drn

11236. Shure 444 Mic FS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 03:24:50 UTC
From: jsloss
Topic: 11236 Message: 11236

Shure 444 mic, wired for Kenwood hybrid rigs w/ 4-pin connector, for sale. $49 + shpg. Photos available. Pls reply off list. Thanks Joe k7mks

[Non-text portions of this message have been removed]

11237. Re: TS-820S Final Tubes replacement?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 06:00:47 UTC
From: mhherf
Topic: 11139 Message: 11237

--- In TS-520_820_530_830@yahoogroups.com, "cprocny" <n2yhq@...>
wrote:
>
> Hello to All
> I'm new in this group, recently upgraded to General and purchased a
TS-
> 820S XCVR which works fine but it puts out ~100W in CW. I wonder
if
> this is an indication that I should start thinking on replace the
final
> tubes. The manual calls for S2001 tubes which I think are
obsolete. Is
> there any drop-in replacement for those tubes?
>
> 73 de Marcelo N2YHQ
>

Hi Marcelo,

My TS-820S with original S2001A tubes still puts out 100W on 10M and
120W on 75M. I bought the radio in 1977 and I would say that the
power out may be down 5 watts from when it was new. These
measurements were taken with a Bird 43 (250W slug), Thermaline 8135
RF load and a key-down voltage of 117VAC.
Under the same conditions, my TS-830S (original 6146Bs) puts out 110
on 10M and 130W on 75M.
Another item to check when power output is a little lower than
expected is the screen supply voltage (about 210V).

73,
Mitch

11238. RE: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 02:10:57 UTC
From: John Harp
Topic: 11170 Message: 11238

Well Walt when you rhink about it. We know each other here. We know were here to keep these radios running. That's this groups goal. To experience them in thier fineness and pass that pleasur on is within the scope. Other vintage groups have gone on the same path as we and done well, some adaption may be deemed necessary at times. But if we all use this resource correctly, look at our potential gain. It's gonna take trust, respect, and application of the saying " there's no I in team".

We'll know when profitable business is a foot. When swap shop ads are bigger than the important stuff it is a guage. We as members know each other to well, we talk to each other ,we know each other and our goals. If there's anything that marks how one is known it's the results of thier works.

You've done well at bringing this group along. Others have come on side you to assist, and are doing good work too.

Our tools are more than screw drivers and hammers and soldering irons. We have knowledge and know where to inquire or to look.

You know when each one of us joined who we were and what we were about and what we were looking for. More so than we back then.

You gave it opportunity. You set guidelines. It grew and it got better as time advanced.

Now we've added a new tool. Lets have confidence and jump in with both feet, everybody. We know the drills. We know we can get it right.

Let's go.

"n9wb@..." <n9wb@...> wrote:
Keith:

Thank you for your comments and they were some good points. Some of the
rules are due to bad experiences on other lists. I see a great amount of
fine tuning of these rules as we see what happens. Some of those changes
will likely address some of the concerns that you expressed.

I have seen situations where individuals joined every group that they could
to advertise something that was way off topic and took the shotgun approach
of barraging as many groups as possible with their posts. Then they posted
daily or more often. After they disposed of their item, they unsubscribed
from most of the groups. This is the kind of abuse I wish to avoid.

In the event that a newcomer wants to buy an item I am sure that we can
find a way to accommodate this person. I think we are going to learn a lot.

Vy 73, Walt N9WB

Original Message:

From: Darwin, Keith keith.darwin@...
Date: Mon, 27 Nov 2006 08:25:22 -0500
To: TS-520_820_530_830@yahoogroups.com
Subject: RE: [TS-520_820_530_830] Paranoia over For sale and WTB posts?

I'm rather baffled at the apparent concern that the list will be overrun by for sale ads. Think about this from a seller's perspective. If I have a roll of coax or an Icom rig to sell, why would I post it in a Kenwood Hybrids SIG list? Why limit my audience? Instead a smart seller will post it in a general place to hit the widest audience.

For that reason I believe that the ads you're likely to see here would naturally be Kenwood related and would therefore be rather infrequent. My experience on other lists is that for sale ads are not nearly the issue that folks fear they'll be.

I'm glad to see that this list at least has the flexibility and openness to discuss the topic on list and to adjust the rules accordingly. Bravo, BRAVO!!!

Now, as to the limit of posing ads no more frequently than every 14 days and only if you've been a member for 30 days - be prepared for issues. I can see it now, new person REALLY wants an 830s and joins the list. Their first post is an introduction post. Second post is a want ad for an 830s and now they're in violation of the 30 day rule. Or, someone just picked up a complete 820s system and is selling off their 520 station. They list the 520 and when it sells, then want to list the rest of the accessories. Oops, that's 2 ads in less than 14 days. These may sound like trivial things but good people have been lost from other lists over issues just like these.

73 all!

- Keith N1AS -

---
mail2web - Check your email from the web at
http://mail2web.com/ .

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11239. Re: [TS-520_820_530_830] MC-30S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 07:13:27 UTC
From: n9wb
Topic: 11220 Message: 11239

The 30S is low impedance, the 35S is high impedance.
Walt N9WB

----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 28, 2006 6:06 PM
Subject: [TS-520_820_530_830] MC-30S

What is the difference between the MC-35S and MC-30S which also is noise cancelling.

Joe k7mks

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date: 11/27/06

[Non-text portions of this message have been removed]

11240. Re: [TS-520_820_530_830] MC-30S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 07:33:12 UTC
From: jsloss
Topic: 11220 Message: 11240

Tha nk you Walt

Joe
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 28, 2006 11:13 PM
Subject: Re: [TS-520_820_530_830] MC-30S

The 30S is low impedance, the 35S is high impedance.
Walt N9WB

----- Original Message -----
From: jsloss
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 28, 2006 6:06 PM
Subject: [TS-520_820_530_830] MC-30S

What is the difference between the MC-35S and MC-30S which also is noise cancelling.

Joe k7mks

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date: 11/27/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11241. Re: TS-830S with LED'S lit all the time

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 08:27:48 UTC
From: n9wb
Topic: 11233 Message: 11241

When on, the switch applies voltage to a resistor that connects to the LED. The ground side of the LED goes directly to ground. So voltage has to be somehow leaking past the switch contacts. Dirt buildup around the switch can cause this or a resistive short in the switch. I would suggest cleaning the switch with De-Oxit (Best) or rubbing alcohol. If rubbing alcohol is used, give it a bit of time to fully dry.

Somehow, voltage has to be getting to the LED circuit in spite of the switch contacts being open.

Vy 73, Walt N9WB

----- Original Message -----
From: davewalinski
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 28, 2006 10:04 PM
Subject: [TS-520_820_530_830] TS-830S with LED'S lit all the time

I have a TS-830S that the both LED lights on the RIT
and the LED on the RF attenuator are lit all the time
reguardless of weather the RIT or RF Attn. switches are actually on or
not.
The radio otherwise works great. Also the led's are a slight bit dimmer
with switches off then reach regular brilliance with switchs on.
Any one else have this problem? Thank you.

Dave
WB8SHV

11242. Re: [TS-520_820_530_830] TS-520 2SC856 transistor replacement

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 09:28:38 UTC
From: n9wb
Topic: 11203 Message: 11242

Before you remove Q-10, why do you think it is bad? Measure the voltage on the base, collector, and emitter of this transistor. Let us know what you get. Use a digital volt meter if available.

For an exact replacement check Mouser.

http://www.mouser.com/

Or CEI

http://www.ceitron.com/products.html

Mouser will be more expensive but CEI has a $25.00 minimum.

Order by 800 # telephone for best results on both.

But first, lets check farther and see if Q-10 is really bad.

Vy 73, Walt N9WB

----- Original Message -----
From: Karl Schwab
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 27, 2006 8:59 PM
Subject: [TS-520_820_530_830] TS-520 2SC856 transistor replacement

Fellow TS-520 guys; My loss of ALC in my TS-520 'could
be' because of a bad Q10, 2SC856 transistor on the RF
board. In looking at Q10 on the board, it looks like
it might take a 'bit of doing' to get it off of the
board; my though is take it off from the top so as not
to get into 'to much trouble'in trying to remove the
board! In looking on the Internet for a source for
this transistor, it appears to be a discontinued item.
I would like to know if any of you might have a
source for a replacement? As always, thanks for your
help. 73, de KO8S, Karl

_____
Yahoo! Music Unlimited
Access over 1 million songs.
http://music.yahoo.com/unlimited

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.17/553 - Release Date: 11/27/06

[Non-text portions of this message have been removed]

11243. KenwoodQSO Yahoo group.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 11:35:48 UTC
From: n9wb
Topic: 11243 Message: 11243

Ellen AF9J and Myself N9WB Started a Yahoo group a few months ago. It is called KenwoodQSO. This is a group where users of this and other specific groups can post frequencies where they are listening and calling CQ. We are restoring some super rigs, we need to talk to each other on them. Often we hesitate to break into existing conversations because we wonder if we are welcome. Anyone who posts on the KenwoodQSO group welcome others to join them. That means YOU!. We also encourage you to post.

Eventually, when band conditions improve, Ellen wants to start a Kenwood Hybrid net. Band conditions have been terrible this winter so success has been marginal, but the more people we have participating and the more often they post, many of us who have become friends here will be able to talk on the air. We are at the very bottom of the sunspot cycle, but reverse sun spots have already been observed. Conditions have no way to go but up to what is predicted to be one of the best cycles in my lifetime! I am 57.

We do not have this group listed in the Yahoo directory. If you wish to join, you can search Yahoo Groups for KenwoodQSO or e-mail Ellen or myself and we will send you an invitation.

We have two other groups, one is KenwoodMics where the discussion of mikes on Kenwoods as well as improved audio can take place and astaticmicrophones. This group was established by Frank K2NCC for us to discuss Astatic repairs and modifications.

If you are a member of this group, you are welcome to join these additional groups.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11244. Re: [TS-520_820_530_830] Re: For Sale Ads

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 11:41:59 UTC
From: Another Old Codger
Topic: 11179 Message: 11244

In the SM-220 Manual, for the TS-830 it says to use the IF No. 1
Output for Band Scan.

Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 1:17 AM
Subject: Re: [TS-520_820_530_830] Re: For Sale Ads

I'd like to see it for my 830.

Another Old Codger <clattering.ford@...> wrote:
Mine has the Pan-Adaptor, but for some reason the data showing how to
connect it to a TS-530 is not in the manual, so my fitting is bit of a
bodge. The PCB appears to have pads, but I do not have details of the
components needed.

Please, has anyone attached an SM-220 to a TS-530?

Ron G8URU.

11245. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 11:49:31 UTC
From: Another Old Codger
Topic: 11174 Message: 11245

Nothing to do with Radio:

When you are repairing books and etc., get the proper library tape, it lasts almost forever, doesn't dry out, and is almost invisible. Sellotape dries out, peels off and generally leaves the paper in a mess.

You will have to ask for it, good stationery dealers should have it. If not, ask you local library or second-hand bookseller, they will be happy to advise you.

Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 1:44 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Actually my ARRL Antenna book has been likea bible to me for antennas over the years. And recently the stuff I read has been enhanced upon by the webpages since. It may look yellowed and old and taped over tapeand pages still fall out. But I still want and use it.

11246. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 12:59:05 UTC
From: n9wb
Topic: 11174 Message: 11246

You know, some people have roaches, some have rats, I have cats.

I love cats. But I get no respect. They shoved my Bill Orr Handbood into their water dish. I'll look for some of that tape.

I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.

Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 29, 2006 6:49 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Nothing to do with Radio:

When you are repairing books and etc., get the proper library tape, it lasts almost forever, doesn't dry out, and is almost invisible. Sellotape dries out, peels off and generally leaves the paper in a mess.

You will have to ask for it, good stationery dealers should have it. If not, ask you local library or second-hand bookseller, they will be happy to advise you.

Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 1:44 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Actually my ARRL Antenna book has been likea bible to me for antennas over the years. And recently the stuff I read has been enhanced upon by the webpages since. It may look yellowed and old and taped over tapeand pages still fall out. But I still want and use it.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.19/556 - Release Date: 11/28/06

[Non-text portions of this message have been removed]

11247. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 13:01:05 UTC
From: n9wb
Topic: 11174 Message: 11247

You know, some people have roaches, some have rats, I have cats.

I love cats. But I get no respect. They shoved my Bill Orr Handbook into their water dish. I'll look for some of that tape.

I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.

Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 29, 2006 6:49 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Nothing to do with Radio:

When you are repairing books and etc., get the proper library tape, it lasts almost forever, doesn't dry out, and is almost invisible. Sellotape dries out, peels off and generally leaves the paper in a mess.

You will have to ask for it, good stationery dealers should have it. If not, ask you local library or second-hand bookseller, they will be happy to advise you.

Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 1:44 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Actually my ARRL Antenna book has been likea bible to me for antennas over the years. And recently the stuff I read has been enhanced upon by the webpages since. It may look yellowed and old and taped over tapeand pages still fall out. But I still want and use it.

11248. Re: [TS-520_820_530_830] Re: Will a VFO-520S work on a TS-520?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 01:38:49 UTC
From: John Harp
Topic: 11160 Message: 11248

Actually Noel I was pointing you in the direction of that info. I figured James or someone would tell you one way or the other. I just dug out the reference pointers for you to check. Then you'd know where to look as needed.

Noel Spears <Noel@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "james27613" <james27613@...> wrote:
>
> hi,
>
> You've already have this info but I am posting this
> for future searches on vfo-520 cable questions.
>
> in the files section on this forum there is
> info on how to build your own cable.
>
> 73 james ke4drn
>

There is a file on the TS-820 VFO cable, but, nothing for the 520. Also, it appears that the TS-520 needs a 8 pin plug, while the VFO-520S requires a 9 pin plug. I will not be able to wire them in a 1 to 1 sequence.

I suspect that you may have missed the fact that I am attempting to use an "S" VFO on a plain TS-520. This is why I asked if it will work, and if anyone on this group has used this particular set-up?

Noel N2FAV

Everyone is raving about the all-new Yahoo! Mail beta.

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11249. Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 13:55:48 UTC
From: Ellen R
Topic: 11243 Message: 11249

Hi everybody,

As Walt mentioned, him and I own the Kenwood QSO group. We are at the bottom of the solar cycle. As a result of this, even 40 is long by 7 PM (not to mention, having horrendous BCI at night). BUT, 75m/80m has been doing better. I belong to a Hellschreiber group (the Feld Hell Club), and run their 80m net on Tuesday nights. Last night, using just 80W from my rig (a Yaesu FT-897D - sorry, I reserve Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from coast-to coast on 3587 kHz. I think it may be worth it to try a Kenwood net on 75m. In the past, this would have been tatamount to comitting RF suicide, with all of the activity on 75. But with the Omnibus ruling taking effect on Dec. 15, the phone band will be opening up quite a bit. Extras like will be able to work all the way down to 3600 kHz. Advanced Class licensees will be able to work down to 3700 kHz, and Generals will be able to work down to 3800 kHz.

Could you all provide me with some feedback? Do you think that a 75m Kenwood net would be doable? If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.

73,
Ellen - AF9J

P.S. - BTW, I'm eveng ame to try a net on 160m, I made some antenna revisiis recently that have really improved my low band signal.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Ellen AF9J and Myself N9WB Started a Yahoo group a few months ago. It is called KenwoodQSO. This is a group where users of this and other specific groups can post frequencies where they are listening and calling CQ. We are restoring some super rigs, we need to talk to each other on them. Often we hesitate to break into existing conversations because we wonder if we are welcome. Anyone who posts on the KenwoodQSO group welcome others to join them. That means YOU!. We also encourage you to post.
>
> Eventually, when band conditions improve, Ellen wants to start a Kenwood Hybrid net. Band conditions have been terrible this winter so success has been marginal, but the more people we have participating and the more often they post, many of us who have become friends here will be able to talk on the air. We are at the very bottom of the

sunspot cycle, but reverse sun spots have already been observed. Conditions have no way to go but up to what is predicted to be one of the best cycles in my lifetime! I am 57.
>
> We do not have this group listed in the Yahoo directory. If you wish to join, you can search Yahoo Groups for KenwoodQSO or e-mail Ellen or myself and we will send you an invitation.
>
> We have two other groups, one is KenwoodMics where the discussion of mikes on Kenwoods as well as improved audio can take place and astaticmicrophones. This group was established by Frank K2NCC for us to discuss Astatic repairs and modifications.
>
> If you are a member of this group, you are welcome to join these additional groups.
>
> Vy 73, Walt N9WB
>
> [Non-text portions of this message have been removed]
>

11250. Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 14:22:13 UTC
From: ve3tmt
Topic: 11243 Message: 11250

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
<ellenjoanne2003@...> wrote:

If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.

73,
Ellen - AF9J

Ellen,

I think there is a DX window somewhere around 3800 KHz. You may want to investigate that. As a VE3 I can roam freely from 3500 - 4000 so any freq you pick is fine with me, but others may have a problem. My suggestion would be somewhere above 3900. Lots of rag chewers between 3700-3800 but activity above 3900 seems a bit lighter.

Max
VE3TMT

11251. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 16:03:59 UTC
From: craig harris
Topic: 11243 Message: 11251

hi
I would be interested in a net at 3805.

--- ve3tmt <ve3tmt@...> wrote:

> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> <ellenjoanne2003@...> wrote:
>
> If so, what frequency or frequencies do you
> recommend (especially
> since I'm not that familiar with the nets on 75).
> In my personal
> opinion, somewhere around 3805 kHz might be good, to
> include all
> members in the net who are General Class or higher.
> Please give me
> some feedback.
>
> 73,
> Ellen - AF9J
>
> Ellen,
>
> I think there is a DX window somewhere around 3800
> KHz. You may want
> to investigate that. As a VE3 I can roam freely from
> 3500 - 4000 so
> any freq you pick is fine with me, but others may
> have a problem. My
> suggestion would be somewhere above 3900. Lots of
> rag chewers between
> 3700-3800 but activity above 3900 seems a bit
> lighter.
>
> Max
> VE3TMT
>
>

Craig Harris
5922 amity pl.
charlotte n.c. 28212 KQ4ZM

Do you Yahoo!?

Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com

11252. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 14:16:38 UTC
From: Jeff May
Topic: 11243 Message: 11252

Ellen, In my opinion 3805 is not a good pick...there is a group that hangs out there but most importantly, it is just above the DX window and when the DX station is running split 3805 will be right in the middle of the US calling frequency and the DX'rs will not care that you were there first...for what it worth...73...Jeff...W0XV
----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 29, 2006 7:55 AM
Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Hi everybody,

As Walt mentioned, him and I own the Kenwood QSO group. We are at the bottom of the solar cycle. As a result of this, even 40 is long by 7 PM (not to mention, having horrendous BCI at night). BUT, 75m/80m has been doing better. I belong to a Hellschreiber group (the Feld Hell Club), and run their 80m net on Tuesday nights. Last night, using just 80W from my rig (a Yaesu FT-897D - sorry, I reserve Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from coast-to coast on 3587 kHz. I think it may be worth it to try a Kenwood net on 75m. In the past, this would have been tatamount to comitting RF suicide, with all of the activity on 75. But with the Omnibus ruling taking effect on Dec. 15, the phone band will be opening up quite a bit. Extras like will be able to work all the way down to 3600 kHz. Advanced Class licensees will be able to work down to 3700 kHz, and Generals will be able to work down to 3800 kHz.

Could you all provide me with some feedback? Do you think that a 75m Kenwood net would be doable? If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.

73,
Ellen - AF9J

P.S. - BTW, I'm eveng ame to try a net on 160m, I made some antenna revisiis recently that have really improved my low band signal.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Ellen AF9J and Myself N9WB Started a Yahoo group a few months ago. It is called KenwoodQSO. This is a group where users of this and other specific groups can post frequencies where they are listening

and calling CQ. We are restoring some super rigs, we need to talk to each other on them. Often we hesitate to break into existing conversations because we wonder if we are welcome. Anyone who posts on the KenwoodQSO group welcome others to join them. That means YOU!. We also encourage you to post.
>
> Eventually, when band conditions improve, Ellen wants to start a Kenwood Hybrid net. Band conditions have been terrible this winter so success has been marginal, but the more people we have participating and the more often they post, many of us who have become friends here will be able to talk on the air. We are at the very bottom of the sunspot cycle, but reverse sun spots have already been observed. Conditions have no way to go but up to what is predicted to be one of the best cycles in my lifetime! I am 57.
>
> We do not have this group listed in the Yahoo directory. If you wish to join, you can search Yahoo Groups for KenwoodQSO or e-mail Ellen or myself and we will send you an invitation.
>
> We have two other groups, one is KenwoodMics where the discussion of mikes on Kenwoods as well as improved audio can take place and astaticmicrophones. This group was established by Frank K2NCC for us to discuss Astatic repairs and modifications.
>
> If you are a member of this group, you are welcome to join these additional groups.
>
> Vy 73, Walt N9WB
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

11253. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 17:17:59 UTC
From: Peter A Markavage
Topic: 11243 Message: 11253

As Jeff pointed out, around 3800 is probably not a great area to hang. I believe a Collins net also meets on or about 3805 too. Many of the current 75 meter residents are talking up moving down into the new areas to gather dominance. Your best bet is to consider moving somewhere above 3900 where empty space still can be found at times during the evenings.

During sunspot minimum, 80 and 160 meters generally are better for "quiet band" operation with less static and longer haul contacts. However, keep in mind that during the winter months, D and E absorption virtually disappears during the evening hours. 80 meters signals will propagate up to the much higher layers resulting in much longer "skip" type conditions. Your ability to work stations, 200 to 400 miles or less, might be constrained at times.

Pete, wa2cwa

On Wed, 29 Nov 2006 08:16:38 -0600 "Jeff May" <W0XV@...> writes:
> Ellen, In my opinion 3805 is not a good pick...there is a group that
> hangs out there but most importantly, it is just above the DX window
> and when the DX station is running split 3805 will be right in the
> middle of the US calling frequency and the DX'rs will not care that
> you were there first...for what it worth...73...Jeff...W0XV
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 29, 2006 7:55 AM
> Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a
> proposed idea for a net
>
>
> Hi everybody,
>
> As Walt mentioned, him and I own the Kenwood QSO group. We are at
>
> the bottom of the solar cycle. As a result of this, even 40 is
> long
> by 7 PM (not to mention, having horrendous BCI at night). BUT,
> 75m/80m has been doing better. I belong to a Hellschreiber group
> (the Feld Hell Club), and run their 80m net on Tuesday nights.
> Last
> night, using just 80W from my rig (a Yaesu FT-897D - sorry, I
> reserve
> Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from
> coast-to

> coast on 3587 kHz. I think it may be worth it to try a Kenwood net
>
> on 75m. In the past, this would have been tatamount to comitting
> RF
> suicide, with all of the activity on 75. But with the Omnibus
> ruling
> taking effect on Dec. 15, the phone band will be opening up quite
> a
> bit. Extras like will be able to work all the way down to 3600
> kHz.
> Advanced Class licensees will be able to work down to 3700 kHz,
> and
> Generals will be able to work down to 3800 kHz.
>
> Could you all provide me with some feedback? Do you think that a
> 75m
> Kenwood net would be doable? If so, what frequency or frequencies
> do
> you recommend (especially since I'm not that familiar with the
> nets
> on 75). In my personal opinion, somewhere around 3805 kHz might be
>
> good, to include all members in the net who are General Class or
> higher. Please give me some feedback.
>
> 73,
> Ellen - AF9J
>
> P.S. - BTW, I'm eveng ame to try a net on 160m, I made some
> antenna
> revisiis recently that have really improved my low band signal.

11254. Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 17:51:06 UTC
From: Ellen R
Topic: 11243 Message: 11254

Hi Max,

I deal with DX wndow you're talking about a fair amount, when I'm contesting. The window in question is supposed to be from 3775 to 3800 kHz. But the defacto window is from 3790-3800 kHz (almost everybody ignores 3775-3790 as being a part of the window).

My only conern about going above 3900, is that there are many established nets above 3900, which makes it hard to find a clear freq. for another net. If it would be above 3900, what would people suggest we use?

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@> wrote:
>
> If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.
>
> 73,
> Ellen - AF9J
>
> Ellen,
>
> I think there is a DX window somewhere around 3800 KHz. You may want to investigate that. As a VE3 I can roam freely from 3500 - 4000 so any freq you pick is fine with me, but others may have a problem. My suggestion would be somewhere above 3900. Lots of rag chewers between
> 3700-3800 but activity above 3900 seems a bit lighter.
>
> Max
> VE3TMT
>

11255. Re: KenwoodQSO Yahoo group - a proposed idea for a net OK around 3805 is out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 17:58:48 UTC
From: Ellen R
Topic: 11243 Message: 11255

OK, around 3805 is out. Where could we hold it above 3900? Any ideas from those of you who know what the net situation is between 3900 & 4000 kHz. I'd love to do one on 160 (I've liked that band since the mid 80s, when I was a new General class licensee, using the University of Wisconsin's club station), if I have enough people inetersted in it. I'll try a test net on 160. My only concern about 160, is that many hams will have a hard time getting anything to radiate OK on 160 (I just got lucky in that regard). So, it would not be a good choice for the main net. A net on 160 would be more of a "doing it for a laugh" net. I guess, I'm hoping that the DX Window, and some of the nets below 3850 would move down lower in freq. after Dec. 15. It sounds like this won't be the case.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> As Jeff pointed out, around 3800 is probably not a great area to hang. I
> believe a Collins net also meets on or about 3805 too. Many of the
> current 75 meter residents are talking up moving down into the new areas
> to gather dominance. Your best bet is to consider moving somewhere above
> 3900 where empty space still can be found at times during the evenings.
>
> During sunspot minimum, 80 and 160 meters generally are better for "quiet
> band" operation with less static and longer haul contacts. However, keep
> in mind that during the winter months, D and E absorption virtually
> disappears during the evening hours. 80 meters signals will propagate up
> to the much higher layers resulting in much longer "skip" type
> conditions. Your ability to work stations, 200 to 400 miles or less,
> might be constrained at times.
>
> Pete, wa2cwa
>
> On Wed, 29 Nov 2006 08:16:38 -0600 "Jeff May" <W0XV@...> writes:
> > Ellen, In my opinion 3805 is not a good pick...there is a group

that
> > hangs out there but most importantly, it is just above the DX
window
> > and when the DX station is running split 3805 will be right in
the
> > middle of the US calling frequency and the DX'rs will not care
that
> > you were there first...for what it worth...73...Jeff...W0XV
> > ----- Original Message -----
> > From: Ellen R
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, November 29, 2006 7:55 AM
> > Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a
> > proposed idea for a net
> >
> >
> > Hi everybody,
> >
> > As Walt mentioned, him and I own the Kenwood QSO group. We are
at
> >
> > the bottom of the solar cycle. As a result of this, even 40 is
> > long
> > by 7 PM (not to mention, having horrendous BCI at night). BUT,
> > 75m/80m has been doing better. I belong to a Hellschreiber
group
> > (the Feld Hell Club), and run their 80m net on Tuesday nights.
> > Last
> > night, using just 80W from my rig (a Yaesu FT-897D - sorry, I
> > reserve
> > Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from
> > coast-to
> > coast on 3587 kHz. I think it may be worth it to try a Kenwood
net
> >
> > on 75m. In the past, this would have been tatamount to
comitting
> > RF
> > suicide, with all of the activity on 75. But with the Omnibus
> > ruling
> > taking effect on Dec. 15, the phone band will be opening up
quite
> > a
> > bit. Extras like will be able to work all the way down to 3600
> > kHz.
> > Advanced Class licensees will be able to work down to 3700 kHz,
> > and
> > Generals will be able to work down to 3800 kHz.
> >
> > Could you all provide me with some feedback? Do you think that

a
> > 75m
> > Kenwood net would be doable? If so, what frequency or
frequencies
> > do
> > you recommend (especially since I'm not that familiar with the
> > nets
> > on 75). In my personal opinion, somewhere around 3805 kHz might
be
> >
> > good, to include all members in the net who are General Class
or
> > higher. Please give me some feedback.
> >
> > 73,
> > Ellen - AF9J
> >
> > P.S. - BTW, I'm eveng ame to try a net on 160m, I made some
> > antenna
> > revisiis recently that have really improved my low band signal.
>

11256. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 20:07:46 UTC
From: Peter A Markavage
Topic: 11243 Message: 11256

Actually, if you're going to act as net control or central point of
contact, you need to have the "best" frequency. I can tell you what I
hear at my location as a clear frequency but at your location, it might
be entirely different.

Pete, wa2cwa

On Wed, 29 Nov 2006 17:51:06 -0000 "Ellen R"
<ellenjoanne2003@...> writes:
> Hi Max,
>
> I deal with DX wndow you're talking about a fair amount, when I'm
> contesting. The window in question is supposed to be from 3775 to
> 3800 kHz. But the defacto window is from 3790-3800 kHz (almost
> everybody ignores 3775-3790 as being a part of the window).
>
> My only conern about going above 3900, is that there are many
> established nets above 3900, which makes it hard to find a clear
> freq. for another net. If it would be above 3900, what would people
>
> suggest we use?
>
> 73,
> Ellen - AF9J
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...>
> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Ellen R"
> > <ellenjoanne2003@> wrote:
> >
> > If so, what frequency or frequencies do you recommend (especially
> > since I'm not that familiar with the nets on 75). In my personal
> > opinion, somewhere around 3805 kHz might be good, to include all
> > members in the net who are General Class or higher. Please give
> me
> > some feedback.
> >
> > 73,
> > Ellen - AF9J
> >
> > Ellen,

> >
> > I think there is a DX window somewhere around 3800 KHz. You may
> want
> > to investigate that. As a VE3 I can roam freely from 3500 - 4000
> so
> > any freq you pick is fine with me, but others may have a problem.
> My
> > suggestion would be somewhere above 3900. Lots of rag chewers
> between
> > 3700-3800 but activity above 3900 seems a bit lighter.
> >
> > Max
> > VE3TMT
>

11257. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 20:44:27 UTC
From: Another Old Codger
Topic: 11243 Message: 11257

Occasionally, I have heard the other side of The Pond in our forbidden section, 3.8 to 4.0 Mcs, Oops sorry MHz, it's my age you know. But, any chance of hearing you between 3.5 and 3.8 is almost impossible, the continental Gentlemen ??? swamp the band. It is sometimes difficult to run a local Net. They seem to have contests day and night at times. Good manners, and good operating disappear in their efforts to collect yet another number.

There you are you see, I'm a typical aged xenophobic 'Brit'. ;-)

Ron G8URU

----- Original Message -----
From: "ve3tmt" <ve3tmt@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 2:22 PM
Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

--- In TS-520_820_530_830@yahoogroups.com, "Ellen R" <ellenjoanne2003@...> wrote:

If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.

73,
Ellen - AF9J

Ellen,

I think there is a DX window somewhere around 3800 KHz. You may want to investigate that. As a VE3 I can roam freely from 3500 - 4000 so any freq you pick is fine with me, but others may have a problem. My suggestion would be somewhere above 3900. Lots of rag chewers between 3700-3800 but activity above 3900 seems a bit lighter.

Max
VE3TMT

11258. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 20:32:02 UTC
From: Another Old Codger
Topic: 11174 Message: 11258

We had cats, Siamese, now they are special, except for one or two things. They are expert thieves and can open doors. But, in our case they are professional killers, rats, mice, and rabbits, that's OK. Unfortunately, we have 35 acres of conservation managed land, and they killed anything that moved, crawled, ran, or flew, we even had a neutered tom who could fish. So, as they went to cat heaven they were not replaced. We miss their special ways, but it was not much use preserving all the birds and etc., for them to be slaughtered.

So now we rescue elderly Pekingese dogs, again they are special, and one of the breed won Crufts, (Danny). The dogs are getting old, like us, so these will be the last.

As a well known personality said, "If our pets aren't in Heaven, then I don't want to go".

73 Ron G8URU

P.s. Walt, your cats do like you, they just have a funny way of showing it, after all they know that they are superior to humans. The ancient Egyptians got it right. R.

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 12:59 PM
Subject: Re: [TS-520_820_530_830] Re: Books

You know, some people have roaches, some have rats, I have cats.

I love cats. But I get no respect. They shoved my Bill Orr Handbood into their water dish. I'll look for some of that tape.

I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.

Walt N9WB

11259. TS-830S for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 21:44:24 UTC
From: thunderchicken_01
Topic: 11259 Message: 11259

Hello all, cleared this with Bill a few weeks ago just returned home
so I guess it is still ok.
Radio is fully functional, good tubes, no known issues.
Contact me off site please if interesed. $325.00 plus shipping.
Thanks, George

11260. dead bands?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 23:48:04 UTC
From: lajes67
Topic: 11260 Message: 11260

80 dead?, I worked CQ WW CW this past weekend, some of the prefixes I worked were: M6, SH9, DL7, YT1, IU1, SN7, SH0, F8, EA3, 9A, IK2, OM4, Ok, IZ3 and this was all on the lower end of 80 using a dipole all twisted in different positions to fit in the yard.
It's hard to come up with something for everyone, our club has a local net on 10m and sometimes we can't hear someone 20 miles away, even with the beam "looking" right at them.
Sometimes an e-mail might be the best thing, this way you can set up a quick QSO if you find an open spot on some band and others that are reading the mail can join in on the air.
John K2IZ

11261. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 20:18:05 UTC
From: Kelly Maiden
Topic: 11243 Message: 11261

Whatever works for everyone else will be fine with me. I listened in last night on some very rude and crude people on 3795. Makes me wonder when they
started putting licenses in cereal boxes?

Ellen R wrote:

> Hi everybody,
>
> As Walt mentioned, him and I own the Kenwood QSO group. We are at
> the bottom of the solar cycle. As a result of this, even 40 is long
> by 7 PM (not to mention, having horrendous BCI at night). BUT,
> 75m/80m has been doing better.
>
> Could you all provide me with some feedback? Do you think that a 75m
> Kenwood net would be doable? If so, what frequency or frequencies do
> you recommend (especially since I'm not that familiar with the nets
> on 75). In my personal opinion, somewhere around 3805 kHz might be
> good, to include all members in the net who are General Class or
> higher. Please give me some feedback.
>
> 73,
> Ellen - AF9J
>
> P.S. - BTW, I'm eveng ame to try a net on 160m, I made some antenna
> revisiis recently that have really improved my low band signal.
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
>
>
>
>

[Non-text portions of this message have been removed]

11262. Re: Animals in the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-29 23:59:16 UTC
From: alicein49
Topic: 11174 Message: 11262

Good morning/evening group,

While I am quite happy with the new policy of members occasionally offering their spare bits and pieces for sale within the group, I do think that the moderators need to keep a close eye on the recent spate of animal stories.

I think we should allow only those pet stories which are directly related to our hybrid radio treasures, with mention of a maximum of two pets per month - NO CHICKENS!

My cat Boofie (short for Boofhead) regularly sleeps on my desk nestled up alongside the TS-530S. I need to do a little fur-removal maintenance at times, but am pleased to say that I've never been troubled by mice in the shack.

Regards to all
Geoff VK2HQA

11263. Re: [TS-520_820_530_830] Re: The tube question (6883 12V)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:17:02 UTC
From: John Harp
Topic: 10916 Message: 11263

Thanks James I'll check it out. Wonder about them with 830's?

james27613 <james27613@...> wrote: hi,

$ 20 each surplus sales for 6883 tube RCA

http://www.surplussales.com/Tubes-Sock-Acc/TubesListed_100up.html

> Can you still get 6883's? I haven't seen those in a long time

73 james ke4dɪn

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11264. Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:25:02 UTC
From: Ellen R
Topic: 11174 Message: 11264

Walt,

You know about my cats. I should sent you the photo (maybe I did) of Cleo laying on top of the IC-703 Plus I had last February. It was during the ARRL CW DX contest. Every time I turned the tuning dial, she swatted at my hand and meowed! Still, I wouldn't be without her or Sugar.

73,
Ellen - AF9J, w/ Cleo purring, and swishing her tail in front of the notebook screen.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> You know, some people have roaches, some have rats, I have cats.
>
> I love cats. But I get no respect. They shoved my Bill Orr Handbood into their water dish. I'll look for some of that tape.
>
> I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.
>
> Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 29, 2006 6:49 AM
> Subject: Re: [TS-520_820_530_830] Re: Books
>
>
> Nothing to do with Radio:
>
> When you are repairing books and etc., get the proper library tape, it
> lasts almost forever, doesn't dry out, and is almost invisible.
> Sellotape dries out, peels off and generally leaves the paper in a
> mess.
>
> You will have to ask for it, good stationery dealers should have it.
> If not, ask you local library or second-hand bookseller, they will be
> happy to advise you.

>
> Ron G8URU
>
> ----- Original Message -----
> From: "John Harp" <ka3dpw@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, November 29, 2006 1:44 AM
> Subject: Re: [TS-520_820_530_830] Re: Books
>
> Actually my ARRL Antenna book has been likea bible to me for
antennas
> over the years. And recently the stuff I read has been enhanced
upon
> by the webpages since. It may look yellowed and old and taped
over
> tapeand pages still fall out. But I still want and use it.
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.19/556 - Release Date:
11/28/06
>
>
> [Non-text portions of this message have been removed]
>

11265. Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:20:38 UTC
From: Ellen R
Topic: 11174 Message: 11265

As do my cats Ron,

I have 2 shorthairs, that I adopted from a no-kill cat shelter I volounteer at. Cleo (my black & white, who's swishing her tail in front of the screen as I write this), and Sugar (my tortie) oftentimes hang out with me, when I'mm on the radio, and occasionally try to be my 2nd operator. LOL

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger" <clattering.ford@...> wrote:
>
> We had cats, Siamese, now they are special, except for one or two
> things. They are expert thieves and can open doors. But, in our case
> they are professional killers, rats, mice, and rabbits, that's OK.
> Unfortunately, we have 35 acres of conservation managed land, and they
> killed anything that moved, crawled, ran, or flew, we even had a
> neutered tom who could fish. So, as they went to cat heaven they were
> not replaced. We miss their special ways, but it was not much use
> preserving all the birds and etc., for them to be slaughtered.
>
> So now we rescue elderly Pekingese dogs, again they are special, and
> one of the breed won Crufts, (Danny). The dogs are getting old, like
> us, so these will be the last.
>
> As a well known personality said, "If our pets aren't in Heaven, then
> I don't want to go".
>
> 73 Ron G8URU
>
> P.s. Walt, your cats do like you, they just have a funny way of
> showing it, after all they know that they are superior to humans. The
> ancient Egyptians got it right. R.
>
>
> ----- Original Message -----
> From: "n9wb" <n9wb@...>

> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, November 29, 2006 12:59 PM
> Subject: Re: [TS-520_820_530_830] Re: Books
>
>
> You know, some people have roaches, some have rats, I have cats.
>
> I love cats. But I get no respect. They shoved my Bill Orr Handbood
> into their water dish. I'll look for some of that tape.
>
> I'm an Olde Codger too. But cats that are furry, purr, and pretend
> that they like me (when I feed them) they know how to melt my
heart.
> Life was much simpler when I had a dog.
>
> Walt N9WB
>

11266. Re: [TS-520_820_530_830] TS-830S with LED'S lit all the time

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:27:07 UTC
From: John Harp
Topic: 11233 Message: 11266

I don't have shematics available to me at the moment, but alot of times in a digital circuit with LED's they are tied high to source or low to ground. I bet ground in this case. Check your ground. It sounds like a little voltage is present. enough to light the diode.

davewalinski <lakeside@...> wrote: I have a TS-830S that the both LED lights on the RIT and the LED on the RF attenuator are lit all the time
reguardless of weather the RIT or RF Attn. switches are actually on or
not.
The radio otherwise works great. Also the led's are a slight bit dimmer
with switches off then reach regular brilliance with switchs on.
Any one else have this problem? Thank you.

Dave
WB8SHV

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11267. Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:37:00 UTC
From: Ellen R
Topic: 11243 Message: 11267

Some of these jerks you mentioned are also pretty territorial, so I wonder how many of them will really move, with the phone band expansion. After all, as far as they're concerned, it's "their frequency", and they are the defacto owners. The funny thing is, commoeciual interests pay millions of dollars for HF channels. I didn't see these idiots paying money buy "their freq."

I can remember getting into a big roundtable on 75 meters on a summer afternoon in 1987, right after I graduated from the Univ. of Wisconsin. We had 9 people in it by 5 PM, and i had been going strong for at least 2 hours. Then 2 or 3 bozos broke in, and said that we were on their freq. They were not a net, but claimend that they had always ragchewed on it for the past 25 years or so, starting at 5pm. They could have moved up a few kHz (the band was still pretty uncrowded t that time of the day), but refused to. So like the big babies they were, they QRMed us, until we finally had to call it quits. This was in the General Class portion of the 75m phone band.

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Kelly Maiden <kellym@...> wrote:
>
> Whatever works for everyone else will be fine with me. I listened in
> last night on some very rude and crude people on 3795. Makes me wonder
> when they
> started putting licenses in cereal boxes?
>
>
> Ellen R wrote:
>
> > Hi everybody,
> >
> > As Walt mentioned, him and I own the Kenwood QSO group. We are at
> > the bottom of the solar cycle. As a result of this, even 40 is long
> > by 7 PM (not to mention, having horrendous BCI at night). BUT,
> > 75m/80m has been doing better.
> >
> > Could you all provide me with some feedback? Do you think that a 75m
> > Kenwood net would be doable? If so, what frequency or frequencies do

> > you recommend (especially since I'm not that familiar with the
nets
> > on 75). In my personal opinion, somewhere around 3805 kHz might be
> > good, to include all members in the net who are General Class or
> > higher. Please give me some feedback.
> >
> > 73,
> > Ellen - AF9J
> >
> > P.S. - BTW, I'm eveng ame to try a net on 160m, I made some
antenna
> > revisiis recently that have really improved my low band signal.
> >
> > --- In TS-520_820_530_ <mailto:TS-520_820_530_830%
40yahoogroups.com>
> >
> >
> >
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

11268. Re: Animals in the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:26:55 UTC
From: Ellen R
Topic: 11174 Message: 11268

LOL!

Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "alicein49"
<geoff_hegarty@...> wrote:
>
> Good morning/evening group,
>
> While I am quite happy with the new policy of members occasionally
> offering their spare bits and pieces for sale within the group, I
do
> think that the moderators need to keep a close eye on the recent
spate
> of animal stories.
>
> I think we should allow only those pet stories which are directly
> related to our hybrid radio treasures, with mention of a maximum of
two
> pets per month - NO CHICKENS!
>
> My cat Boofie (short for Boofhead) regularly sleeps on my desk
nestled
> up alongside the TS-530S. I need to do a little fur-removal
maintenance
> at times, but am pleased to say that I've never been troubled by
mice
> in the shack.
>
> Regards to all
> Geoff VK2HQA
>

11269. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:42:55 UTC
From: John Harp
Topic: 11174 Message: 11269

Thnks Ron. I did it over 20 years ago. the pages are what yellowed. That book has been coast to coast with me and helped me with so many antennas and learning concepts I couldn't tell of the nights I spent studying it. It's still one of my #1 reading materials.

I may have parted with all my magazines and textbooks over time and lost my old handbooks, but that antenna book is tight in my possession.

And thanks for the info on SM-220 hook-up. I've more than once thought of someday getting a station monitor. Time and money. But I'll plug along till I get there. Right now I got winter projects lined up. Be starting them soon.

Another Old Codger <clattering.ford@...> wrote:
Nothing to do with Radio:

When you are repairing books and etc., get the proper library tape, it lasts almost forever, doesn't dry out, and is almost invisible. Sellotape dries out, peels off and generally leaves the paper in a mess.

You will have to ask for it, good stationery dealers should have it. If not, ask you local library or second-hand bookseller, they will be happy to advise you.

Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 1:44 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Actually my ARRL Antenna book has been likea bible to me for antennas over the years. And recently the stuff I read has been enhanced upon by the webpages since. It may look yellowed and old and taped over tapeand pages still fall out. But I still want and use it.

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11270. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:51:38 UTC
From: John Harp
Topic: 11174 Message: 11270

Well to be honest with you unless I have food neither the cat nor the dog like me till they itch, have food or gotta get past a door.

But I digress that somehow I don't need to have them right there all the time under foot. But the food and water are in the kitchen and the book is in the bookshelf no where near the food stash.

The cat might sleep on my head and the dog down my back, but neither will have my book while I read or after I fall to sleep. Tho I must admit, that book has hit me in the face to many times and woke me up across the years now that you mention it.

What can I say antennas is a great subject. I'd rather get hit with the falling book than the falling antenna. hi hi...

n9wb <n9wb@...> wrote:
You know, some people have roaches, some have rats, I have cats.

I love cats. But I get no respect. They shoved my Bill Orr Handbood into their water dish. I'll look for some of that tape.

I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.

Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 29, 2006 6:49 AM
Subject: Re: [TS-520_820_530_830] Re: Books

Nothing to do with Radio:

When you are repairing books and etc., get the proper library tape, it
lasts almost forever, doesn't dry out, and is almost invisible.
Sellotape dries out, peels off and generally leaves the paper in a
mess.

You will have to ask for it, good stationery dealers should have it.
If not, ask you local library or second-hand bookseller, they will be
happy to advise you.

Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 1:44 AM

Subject: Re: [TS-520_820_530_830] Re: Books

Actually my ARRL Antenna book has been likea bible to me for antennas
over the years. And recently the stuff I read has been enhanced upon
by the webpages since. It may look yellowed and old and taped over
tapeand pages still fall out. But I still want and use it.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.19/556 - Release Date: 11/28/06

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11271. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 01:59:51 UTC
From: John Harp
Topic: 11174 Message: 11271

Ron as I get older now I learned to borrow other peoples pets more and more. Yes we have a 3 dogs and 4 cats. We borrow other peoples pets. But I say if I'm liked that much here then the time to enjoy the smell of the roses together is now. Not afterwards.

Just watch the thorns.

Another Old Codger <clattering.ford@...> wrote:
We had cats, Siamese, now they are special, except for one or two things. They are expert thieves and can open doors. But, in our case they are professional killers, rats, mice, and rabbits, that's OK. Unfortunately, we have 35 acres of conservation managed land, and they killed anything that moved, crawled, ran, or flew, we even had a neutered tom who could fish. So, as they went to cat heaven they were not replaced. We miss their special ways, but it was not much use preserving all the birds and etc., for them to be slaughtered.

So now we rescue elderly Pekingese dogs, again they are special, and one of the breed won Crufts, (Danny). The dogs are getting old, like us, so these will be the last.

As a well known personality said, "If our pets aren't in Heaven, then I don't want to go".

73 Ron G8URU

P.s. Walt, your cats do like you, they just have a funny way of showing it, after all they know that they are superior to humans. The ancient Egyptians got it right. R.

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, November 29, 2006 12:59 PM
Subject: Re: [TS-520_820_530_830] Re: Books

You know, some people have roaches, some have rats, I have cats.

I love cats. But I get no respect. They shoved my Bill Orr Handbood into their water dish. I'll look for some of that tape.

I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.

Walt N9WB

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11272. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 02:08:36 UTC
From: John Harp
Topic: 11243 Message: 11272

I'll go 75 phone. 9 land on 40's a breeze. 80 should be a go too. I hadn't heard Dec 15th officially. I calculated it to be about right. Did they anounce that yet as being the official date?

Ellen R <ellenjoanne2003@...> wrote: Hi everybody,

As Walt mentioned, him and I own the Kenwood QSO group. We are at the bottom of the solar cycle. As a result of this, even 40 is long by 7 PM (not to mention, having horrendous BCI at night). BUT, 75m/80m has been doing better. I belong to a Hellschreiber group (the Feld Hell Club), and run their 80m net on Tuesday nights. Last night, using just 80W from my rig (a Yaesu FT-897D - sorry, I reserve Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from coast-to coast on 3587 kHz. I think it may be worth it to try a Kenwood net on 75m. In the past, this would have been tatamount to comitting RF suicide, with all of the activity on 75. But with the Omnibus ruling taking effect on Dec. 15, the phone band will be opening up quite a bit. Extras like will be able to work all the way down to 3600 kHz. Advanced Class licensees will be able to work down to 3700 kHz, and Generals will be able to work down to 3800 kHz.

Could you all provide me with some feedback? Do you think that a 75m Kenwood net would be doable? If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.

73,
Ellen - AF9J

P.S. - BTW, I'm eveng ame to try a net on 160m, I made some antenna revisiis recently that have really improved my low band signal.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Ellen AF9J and Myself N9WB Started a Yahoo group a few months ago. It is called KenwoodQSO. This is a group where users of this and other specific groups can post frequencies where they are listening and calling CQ. We are restoring some super rigs, we need to talk to each other on them. Often we hesitate to break into existing conversations because we wonder if we are welcome. Anyone who posts on the KenwoodQSO group welcome others to join them. That means YOU!. We also encourage you to post.
>

> Eventually, when band conditions improve, Ellen wants to start a Kenwood Hybrid net. Band conditions have been terrible this winter so success has been marginal, but the more people we have participating and the more often they post, many of us who have become friends here will be able to talk on the air. We are at the very bottom of the sunspot cycle, but reverse sun spots have already been observed. Conditions have no way to go but up to what is predicted to be one of the best cycles in my lifetime! I am 57.
>
> We do not have this group listed in the Yahoo directory. If you wish to join, you can search Yahoo Groups for KenwoodQSO or e-mail Ellen or myself and we will send you an invitation.
>
> We have two other groups, one is KenwoodMics where the discussion of mikes on Kenwoods as well as improved audio can take place and astaticmicrophones. This group was established by Frank K2NCC for us to discuss Astatic repairs and modifications.
>
> If you are a member of this group, you are welcome to join these additional groups.
>
> Vy 73, Walt N9WB
>
> [Non-text portions of this message have been removed]
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11273. Re: [TS-520_820_530_830] Re: Animals in the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 02:35:40 UTC
From: John Harp
Topic: 11174 Message: 11273

Now that's a great pet story. Don't forget to clean behind the 530 face plate. I opened my 830 and found a hairy surprise.

alicein49 <geoff_hegarty@...> wrote: Good morning/evening group,

While I am quite happy with the new policy of members occasionally offering their spare bits and pieces for sale within the group, I do think that the moderators need to keep a close eye on the recent spate of animal stories.

I think we should allow only those pet stories which are directly related to our hybrid radio treasures, with mention of a maximum of two pets per month - NO CHICKENS!

My cat Boofie (short for Boofhead) regularly sleeps on my desk nestled up alongside the TS-530S. I need to do a little fur-removal maintenance at times, but am pleased to say that I've never been troubled by mice in the shack.

Regards to all
Geoff VK2HQA

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11274. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net OK around 3805 is out

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 02:26:37 UTC
From: John Harp
Topic: 11243 Message: 11274

Ellen after Dec15th there will be a change on those bands and the parties will resettle no matter what. Some will stay the same and some will move. That will show itself in time.

If you want to try 160 I can get 3 to 1 SWR on the 40 quarterwave. Not great but it is do-able. I must run barefoot since the linear will not go below 80. That's just the way it's built.

I can add some wire off the top horizontally to bring it closer to 160 resonance if I hinge it down and add a hose clamp.

The end fed is 160 quarterwave at 20 feet. But it only seems to land signals into New England and Eastern Canada.

My other linear for 160 isn't finished yet.

But I'll give it a try. Keep workin on it.

Ellen R <ellenjoanne2003@...> wrote:
OK, around 3805 is out. Where could we hold it above 3900? Any
ideas from those of you who know what the net situation is between
3900 & 4000 kHz. I'd love to do one on 160 (I've liked that band
since the mid 80s, when I was a new General class licensee, using the
University of Wisconsin's club station), if I have enough people
inetersted in it. I'll try a test net on 160. My only concern about
160, is that many hams will have a hard time getting anything to
radiate OK on 160 (I just got lucky in that regard). So, it would
not be a good choice for the main net. A net on 160 would be more of
a "doing it for a laugh" net. I guess, I'm hoping that the DX
Window, and some of the nets below 3850 would move down lower in
freq. after Dec. 15. It sounds like this won't be the case.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> As Jeff pointed out, around 3800 is probably not a great area to
hang. I
> believe a Collins net also meets on or about 3805 too. Many of the
> current 75 meter residents are talking up moving down into the new
areas
> to gather dominance. Your best bet is to consider moving somewhere
above
> 3900 where empty space still can be found at times during the

evenings.
>
> During sunspot minimum, 80 and 160 meters generally are better
for "quiet
> band" operation with less static and longer haul contacts. However,
keep
> in mind that during the winter months, D and E absorption virtually
> disappears during the evening hours. 80 meters signals will
propagate up
> to the much higher layers resulting in much longer "skip" type
> conditions. Your ability to work stations, 200 to 400 miles or less,
> might be constrained at times.
>
> Pete, wa2cwa
>
> On Wed, 29 Nov 2006 08:16:38 -0600 "Jeff May" <W0XV@...> writes:
> > Ellen, In my opinion 3805 is not a good pick...there is a group
that
> > hangs out there but most importantly, it is just above the DX
window
> > and when the DX station is running split 3805 will be right in
the
> > middle of the US calling frequency and the DX'rs will not care
that
> > you were there first...for what it worth...73...Jeff...W0XV
> > ----- Original Message -----
> > From: Ellen R
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, November 29, 2006 7:55 AM
> > Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a
> > proposed idea for a net
> >
> >
> > Hi everybody,
> >
> > As Walt mentioned, him and I own the Kenwood QSO group. We are
at
> >
> > the bottom of the solar cycle. As a result of this, even 40 is
> > long
> > by 7 PM (not to mention, having horrendous BCI at night). BUT,
> > 75m/80m has been doing better. I belong to a Hellschreiber
group
> > (the Feld Hell Club), and run their 80m net on Tuesday nights.
> > Last
> > night, using just 80W from my rig (a Yaesu FT-897D - sorry, I
> > reserve
> > Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from
> > coast-to
> > coast on 3587 kHz. I think it may be worth it to try a Kenwood

net
> >
> > on 75m. In the past, this would have been tatamount to
comitting
> > RF
> > suicide, with all of the activity on 75. But with the Omnibus
> > ruling
> > taking effect on Dec. 15, the phone band will be opening up
quite
> > a
> > bit. Extras like will be able to work all the way down to 3600
> > kHz.
> > Advanced Class licensees will be able to work down to 3700 kHz,
> > and
> > Generals will be able to work down to 3800 kHz.
> >
> > Could you all provide me with some feedback? Do you think that
a
> > 75m
> > Kenwood net would be doable? If so, what frequency or
frequencies
> > do
> > you recommend (especially since I'm not that familiar with the
> > nets
> > on 75). In my personal opinion, somewhere around 3805 kHz might
be
> >
> > good, to include all members in the net who are General Class
or
> > higher. Please give me some feedback.
> >
> > 73,
> > Ellen - AF9J
> >
> > P.S. - BTW, I'm eveng ame to try a net on 160m, I made some
> > antenna
> > revisiis recently that have really improved my low band signal.
>

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11275. Re: [TS-520_820_530_830] Re: Books

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 02:37:25 UTC
From: John Harp
Topic: 11174 Message: 11275

I guess she wanted to monitor that frequency.

Ellen R <ellenjoanne2003@...> wrote: Walt,

You know about my cats. I should sent you the photo (maybe I did) of Cleo laying on top of the IC-703 Plus I had last February. It was during the ARRL CW DX contest. Every time I turned the tuning dial, she swatted at my hand and meowed! Still, I wouldn't be without her or Sugar.

73,
Ellen - AF9J, w/ Cleo purring, and swishing her tail in front of the notebook screen.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> You know, some people have roaches, some have rats, I have cats.
>
> I love cats. But I get no respect. They shoved my Bill Orr Handbood into their water dish. I'll look for some of that tape.
>
> I'm an Olde Codger too. But cats that are furry, purr, and pretend that they like me (when I feed them) they know how to melt my heart. Life was much simpler when I had a dog.
>
> Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 29, 2006 6:49 AM
> Subject: Re: [TS-520_820_530_830] Re: Books
>
>
> Nothing to do with Radio:
>
> When you are repairing books and etc., get the proper library tape, it
> lasts almost forever, doesn't dry out, and is almost invisible.
> Sellotape dries out, peels off and generally leaves the paper in a
> mess.
>
> You will have to ask for it, good stationery dealers should have it.
> If not, ask you local library or second-hand bookseller, they

will be
> happy to advise you.
>
> Ron G8URU
>
> ----- Original Message -----
> From: "John Harp" <ka3dpw@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Wednesday, November 29, 2006 1:44 AM
> Subject: Re: [TS-520_820_530_830] Re: Books
>
> Actually my ARRL Antenna book has been likea bible to me for
antennas
> over the years. And recently the stuff I read has been enhanced
upon
> by the webpages since. It may look yellowed and old and taped
over
> tapeand pages still fall out. But I still want and use it.
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.19/556 - Release Date:
11/28/06
>
>
> [Non-text portions of this message have been removed]
>

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done
faster.

[Non-text portions of this message have been removed]

11276. Info on Kenwood TW-4100A

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 03:20:38 UTC
From: Bill Scurlock
Topic: 11276 Message: 11276

Can anyone tell me where to obtain information on the old Kenwood TW-4100A dualband radio? There is nothing on the Kenwood site or BAMA.

Thanks.

73, Bill, K5GCW

[Non-text portions of this message have been removed]

11277. Re: [TS-520_820_530_830] Re: Animals in the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 09:40:23 UTC
From: Geoff Hegarty
Topic: 11174 Message: 11277

I have to ask, John. It wasn't an eight-legged surprise, was it?

I always remember as a child, every time my father pulled the chassis out of
our 6-tube/valve floor-standing radio, there was a mouse that had managed to
fry itself on some part of the HT wiring.

Geoff VK2HQA

>From: John Harp <ka3dpw@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: Animals in the group
>Date: Wed, 29 Nov 2006 18:35:40 -0800 (PST)
>
>Now that's a great pet story. Don't forget to clean behind the 530 face
>plate. I opened my 830 and found a hairy surprise.

_____
Advertisement: 110,000+ cars with the click of a mouse at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838593&_t=757768878&_r=endtext_110000&_m=EXT

11278. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 15:19:05 UTC
From: Bill Scurlock
Topic: 11243 Message: 11278

Hi Ellen.

I think 75M would work fine to either get together and talk, or have a net. Some experimentation would be a good thing to prevent frustration for our membership - as far a setting times and frequencies. With all the frequency changes taking place, there are lots of discussions I hear about nets moving, etc. to accomodate all the different classes of licenses. The DX Window (3790 - 3800) should be avoided, as well as any known nets, and the AM frequencies. However, some of these current utilizations could be changing soon. Why don't some of us, scattered around the country, try some QSO's every hour or so in the early evenings to see how the propagation would work for us. The frequency would need to be flexible until a "spot" could be found. If you set something up, there are probably several of us who would try to experiment with you.

There are probably some operators who do not have 75M capability, so this would not work for them.

Art, WB4MNK, and I have been talking once a week on 20M for several months with fairly good success. Gordon, N6WK, talked to Art one week when I was not there. We try to get together on Thursdays at 11:00 AM central time on about 14.215 plus or minus a "hole". For people who are still working, this time won't be practical. So there is a good incentive for an evening net. Plus, more people would be able to hear each other on the lower frequencies.

73, Bill, K5GCW
----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, November 29, 2006 7:55 AM
Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Hi everybody,

As Walt mentioned, him and I own the Kenwood QSO group. We are at
the bottom of the solar cycle. As a result of this, even 40 is long
by 7 PM (not to mention, having horrendous BCI at night). BUT,
75m/80m has been doing better. I belong to a Hellschreiber group
(the Feld Hell Club), and run their 80m net on Tuesday nights. Last
night, using just 80W from my rig (a Yaesu FT-897D - sorry, I reserve
Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from coast-to
coast on 3587 kHz. I think it may be worth it to try a Kenwood net
on 75m. In the past, this would have been tatamount to comitting RF
suicide, with all of the activity on 75. But with the Omnibus ruling
taking effect on Dec. 15, the phone band will be opening up quite a
bit. Extras like will be able to work all the way down to 3600 kHz.
Advanced Class licensees will be able to work down to 3700 kHz, and
Generals will be able to work down to 3800 kHz.

Could you all provide me with some feedback? Do you think that a 75m Kenwood net would be doable? If so, what frequency or frequencies do you recommend (especially since I'm not that familiar with the nets on 75). In my personal opinion, somewhere around 3805 kHz might be good, to include all members in the net who are General Class or higher. Please give me some feedback.

73,
Ellen - AF9J

P.S. - BTW, I'm eveng ame to try a net on 160m, I made some antenna revisiis recently that have really improved my low band signal.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Ellen AF9J and Myself N9WB Started a Yahoo group a few months ago. It is called KenwoodQSO. This is a group where users of this and other specific groups can post frequencies where they are listening and calling CQ. We are restoring some super rigs, we need to talk to each other on them. Often we hesitate to break into existing conversations because we wonder if we are welcome. Anyone who posts on the KenwoodQSO group welcome others to join them. That means YOU!. We also encourage you to post.
>
> Eventually, when band conditions improve, Ellen wants to start a Kenwood Hybrid net. Band conditions have been terrible this winter so success has been marginal, but the more people we have participating and the more often they post, many of us who have become friends here will be able to talk on the air. We are at the very bottom of the sunspot cycle, but reverse sun spots have already been observed. Conditions have no way to go but up to what is predicted to be one of the best cycles in my lifetime! I am 57.
>
> We do not have this group listed in the Yahoo directory. If you wish to join, you can search Yahoo Groups for KenwoodQSO or e-mail Ellen or myself and we will send you an invitation.
>
> We have two other groups, one is KenwoodMics where the discussion of mikes on Kenwoods as well as improved audio can take place and astaticmicrophones. This group was established by Frank K2NCC for us to discuss Astatic repairs and modifications.
>
> If you are a member of this group, you are welcome to join these additional groups.
>
> Vy 73, Walt N9WB
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

11279. Re: Info on Kenwood TW-4100A

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 16:02:00 UTC
From: Clif
Topic: 11276 Message: 11279

What do you want to know? 25w each band, PL optional, ???

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Can anyone tell me where to obtain information on the old Kenwood
TW-4100A dualband radio? There is nothing on the Kenwood site or BAMA.
>
> Thanks.
>
> 73, Bill, K5GCW
>
> [Non-text portions of this message have been removed]
>

11280. Re: [TS-520_820_530_830] Re: Info on Kenwood TW-4100A

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 16:26:53 UTC
From: Bill Scurlock
Topic: 11276 Message: 11280

Hi Clif.

What I'm trying to find out (for a good friend here in town) is how to set a frequency into memory. He does not have a manual. Thanks.

73, Bill, K5GCW
----- Original Message -----
From: Clif
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, November 30, 2006 10:02 AM
Subject: [TS-520_820_530_830] Re: Info on Kenwood TW-4100A

What do you want to know? 25w each band, PL optional, ???

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Can anyone tell me where to obtain information on the old Kenwood
TW-4100A dualband radio? There is nothing on the Kenwood site or BAMA.
>
> Thanks.
>
> 73, Bill, K5GCW
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

11281. Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 16:41:23 UTC
From: Ellen R
Topic: 11243 Message: 11281

That's a good idea Bill,

I'll have to do some listening on 75, to determine what freqs. will work out. I'll announce on Kenwood QSO that I'm lloking for QSOs, and/or roundtables for trying out freqs.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Hi Ellen.
>
> I think 75M would work fine to either get together and talk, or have a net. Some experimentation would be a good thing to prevent frustration for our membership - as far a setting times and frequencies. With all the frequency changes taking place, there are lots of discussions I hear about nets moving, etc. to accomodate all the different classes of licenses. The DX Window (3790 - 3800) should be avoided, as well as any known nets, and the AM frequencies. However, some of these current utilizations could be changing soon. Why don't some of us, scattered around the country, try some QSO's every hour or so in the early evenings to see how the propagation would work for us. The frequency would need to be flexible until a "spot" could be found. If you set something up, there are probably several of us who would try to experiment with you.
>
> There are probably some operators who do not have 75M capability, so this would not work for them.
>
> Art, WB4MNK, and I have been talking once a week on 20M for several months with fairly good success. Gordon, N6WK, talked to Art one week when I was not there. We try to get together on Thursdays at 11:00 AM central time on about 14.215 plus or minus a "hole". For people who are still working, this time won't be practical. So there is a good incentive for an evening net. Plus, more people would be able to hear each other on the lower frequencies.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, November 29, 2006 7:55 AM
> Subject: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

>
>
> Hi everybody,
>
> As Walt mentioned, him and I own the Kenwood QSO group. We are at
> the bottom of the solar cycle. As a result of this, even 40 is
long
> by 7 PM (not to mention, having horrendous BCI at night). BUT,
> 75m/80m has been doing better. I belong to a Hellschreiber group
> (the Feld Hell Club), and run their 80m net on Tuesday nights.
Last
> night, using just 80W from my rig (a Yaesu FT-897D - sorry, I
reserve
> Ms. TS-820 for relaxed SSB & CW QSOs) I ahd check-ins from coast-
to
> coast on 3587 kHz. I think it may be worth it to try a Kenwood
net
> on 75m. In the past, this would have been tatamount to comitting
RF
> suicide, with all of the activity on 75. But with the Omnibus
ruling
> taking effect on Dec. 15, the phone band will be opening up quite
a
> bit. Extras like will be able to work all the way down to 3600
kHz.
> Advanced Class licensees will be able to work down to 3700 kHz,
and
> Generals will be able to work down to 3800 kHz.
>
> Could you all provide me with some feedback? Do you think that a
75m
> Kenwood net would be doable? If so, what frequency or frequencies
do
> you recommend (especially since I'm not that familiar with the
nets
> on 75). In my personal opinion, somewhere around 3805 kHz might
be
> good, to include all members in the net who are General Class or
> higher. Please give me some feedback.
>
> 73,
> Ellen - AF9J
>
> P.S. - BTW, I'm eveng ame to try a net on 160m, I made some
antenna
> revisiis recently that have really improved my low band signal.
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > Ellen AF9J and Myself N9WB Started a Yahoo group a few months

ago.
> It is called KenwoodQSO. This is a group where users of this and
> other specific groups can post frequencies where they are
listening
> and calling CQ. We are restoring some super rigs, we need to talk
to
> each other on them. Often we hesitate to break into existing
> conversations because we wonder if we are welcome. Anyone who
posts
> on the KenwoodQSO group welcome others to join them. That means
YOU!.
> We also encourage you to post.
> >
> > Eventually, when band conditions improve, Ellen wants to start
a
> Kenwood Hybrid net. Band conditions have been terrible this
winter so
> success has been marginal, but the more people we have
participating
> and the more often they post, many of us who have become friends
here
> will be able to talk on the air. We are at the very bottom of the
> sunspot cycle, but reverse sun spots have already been observed.
> Conditions have no way to go but up to what is predicted to be
one of
> the best cycles in my lifetime! I am 57.
> >
> > We do not have this group listed in the Yahoo directory. If you
> wish to join, you can search Yahoo Groups for KenwoodQSO or e-
mail
> Ellen or myself and we will send you an invitation.
> >
> > We have two other groups, one is KenwoodMics where the
discussion
> of mikes on Kenwoods as well as improved audio can take place and
> astaticmicrophones. This group was established by Frank K2NCC for
us
> to discuss Astatic repairs and modifications.
> >
> > If you are a member of this group, you are welcome to join
these
> additional groups.
> >
> > Vy 73, Walt N9WB
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

11282. Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 18:14:15 UTC
From: digs4ruff
Topic: 11142 Message: 11282

Any guesses yet?
--- In TS-520_820_530_830@yahoogroups.com, "digs4ruff"
<digs4ruff@...> wrote:
>
> Geoff
> I have added a 3rd pic of the back side showing the numbering on
the
> leads. Ohmeter indicates 0.1 ohm as follows with all other
> permutations as open:
> lead 1-2
> lead 3-4
> lead 5-6
> Same measurements when polarity is reversed.
> thanks for the help
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
> <geoff_hegarty@> wrote:
> >
> > Hi Wonderful Group
> >
> > I wouldn't mind betting that it was a coupling transformer of
some
> > description - tho I'm only guessing. Two centre-tapped windings
> perhaps???
> > Wwhat do you see between the leads with a multimeter?
> >
> > Geoff VK2HQA
> >
> > >digs4ruff <digs4ruff@> wrote: In some parts I
> recently
> > >acquired are a quantity of
> > >Sprague 93Z20 V7052
> > >Photo has been uploaded to VA7GEM folder
> > >Anyone know what this is?
> > >thanks
> > >Barry
> > >
> > >
> > >
> > >
> > >
> > >
> > >---------------------------------
> > >Everyone is raving about the all-new Yahoo! Mail beta.

> > >
> > >[Non-text portions of this message have been removed]
> > >
> >
> > _____
> > Advertisement: Meet Sexy Singles Today @ Lavalife - Click here
> > http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Flavalife9%
> 2Eninemsn%2Ecom%2Eau%2Fclickthru%2Fclickthru%2Eact%3Fid%3Dninemsn%
> 26context%3Dan99%26locale%3Den%5FAU%26a%
> 3D23769&_t=754951090&_r=endtext_lavalife_nov_meet&_m=EXT
> >
>

11283. Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 21:33:01 UTC
From: Steve
Topic: 11283 Message: 11283

I need a recommendation for a simple-to-use Logging Program. I am returning to radio after a five-year absence, and use mostly vintage gear, and a laptop.

I used to use LOG-E-Q-F, but have lost my files, so must now transfer many paper logs/QSL cards to new program.

Many thanks,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

11284. Re: Info on Kenwood TW-4100A

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 23:34:39 UTC
From: Clif
Topic: 11276 Message: 11284

IIRC Set the freq and offset into the vfo. Press and hold the "M" key
till it beeps and then chose the location using the vfo knob. Press
"M" again and it's there. Press "M" briefly to go to the memories.

Oh, I was thinking TW4000, it is a 45w/35w radio.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...>
wrote:
>
> Hi Clif.
>
> What I'm trying to find out (for a good friend here in town) is how
to set a frequency into memory. He does not have a manual. Thanks.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Clif
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, November 30, 2006 10:02 AM
> Subject: [TS-520_820_530_830] Re: Info on Kenwood TW-4100A
>
>
> What do you want to know? 25w each band, PL optional, ???
>
> Clif
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@>
> wrote:
> >
> > Can anyone tell me where to obtain information on the old Kenwood
> TW-4100A dualband radio? There is nothing on the Kenwood site or BAMA.
> >
> > Thanks.
> >
> > 73, Bill, K5GCW
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]

>

11285. Re: Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 23:44:40 UTC
From: David S Lund
Topic: 11283 Message: 11285

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <sbhanson@...> wrote:
>
> I need a recommendation for a simple-to-use Logging Program. I am returning to radio after a five-year absence, and use mostly vintage gear, and a laptop.
>
> I used to use LOG-E-Q-F, but have lost my files, so must now transfer many paper logs/QSL cards to new program.
>
> Many thanks,
>
> Steve in Maine
> ke1lg
>
> [Non-text portions of this message have been removed]
>

My favorite that I've been using for some time is Aclog 3.0 from N3FJP. It is plain and simple, yet tracks awards and works well with LOTW and eQSL. It is inexpensive. The support is great. His website is http://n3fjp.com - check it out.

A good free one is Ham Radio Deluxe. Not quite as simple - it does quite a bit of rig control stuff in addition to logging. It is here: http://hrd.ham-radio.ch/

Hopefully this helps.

David KB5DRJ

11286. Re: [TS-520_820_530_830] Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 23:37:44 UTC
From: Chris HEmbree
Topic: 11283 Message: 11286

I am trying software from www.n3fjp.com called AClog 2.5.
Chris W7CTH

Steve <sbhanson@...> wrote: I need a recommendation for a simple-to-use Logging Program. I am returning to radio after a five-year absence, and use mostly vintage gear, and a laptop.

I used to use LOG-E-Q-F, but have lost my files, so must now transfer many paper logs/QSL cards to new program.

Many thanks,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11287. Re: [TS-520_820_530_830] Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 00:15:11 UTC
From: Chris HEmbree
Topic: 11283 Message: 11287

He is up to AClog3.0 now.
Chris W7CTH

Chris HEmbree <w7cth@...> wrote: I am trying software from www.n3fjp.com called AClog 2.5.
Chris W7CTH

Steve <sbhanson@...> wrote: I need a recommendation for a simple-to-use Logging Program. I am returning to radio after a five-year absence, and use mostly vintage gear, and a laptop.

I used to use LOG-E-Q-F, but have lost my files, so must now transfer many paper logs/QSL cards to new program.

Many thanks,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

Want to start your own business? Learn how on Yahoo! Small Business.

[Non-text portions of this message have been removed]

11288. Re: [TS-520_820_530_830] Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 00:32:45 UTC
From: Max Harelik
Topic: 11283 Message: 11288

N3FJP's Amateur Contact Log 2.7 (or whatever the latest verson is). I really like it, & used it effectively dusing CQWW just past. It's easy, intuitive and editable. Tracks various awards, prints mailing labels, etc.

73,
Max, K5OVW

Steve wrote:

> I need a recommendation for a simple-to-use Logging Program. I am
> returning to radio after a five-year absence, and use mostly vintage
> gear, and a laptop.
>
> I used to use LOG-E-Q-F, but have lost my files, so must now transfer
> many paper logs/QSL cards to new program.
>
> Many thanks,
>
> Steve in Maine
> ke1lg
>

11289. Re: [TS-520_820_530_830] Re: Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 01:02:45 UTC
From: Art
Topic: 11283 Message: 11289

Try DXKeeper from DXLabs. I have used this logger for five years and works like a champ. Also FREE. It also comes with the best support out there.

73
Art
WB4MNK

David S Lund wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Steve" <sbhanson@...>
> wrote:
> >
> > I need a recommendation for a simple-to-use Logging Program. I am
> returning to radio after a five-year absence, and use mostly vintage
> gear, and a laptop.
> >
> > I used to use LOG-E-Q-F, but have lost my files, so must now
> transfer many paper logs/QSL cards to new program.
> >
> > Many thanks,
> >
> > Steve in Maine
> > ke1lg
> >
> > [Non-text portions of this message have been removed]
> >
> My favorite that I've been using for some time is Aclog 3.0 from
> N3FJP. It is plain and simple, yet tracks awards and works well with
> LOTW and eQSL. It is inexpensive. The support is great. His website is
> http://n3fjp.com <http://n3fjp.com> - check it out.
>
> A good free one is Ham Radio Deluxe. Not quite as simple - it does
> quite a bit of rig control stuff in addition to logging. It is here:
> http://hrd.ham-radio.ch/ <http://hrd.ham-radio.ch/>
>
> Hopefully this helps.
>
> David KB5DRJ
>
>
> --
>
> No virus found in this incoming message.

> Checked by AVG Free Edition.
> Version: 7.5.430 / Virus Database: 268.15.2/559 - Release Date: 11/30/2006 5:07 AM
>

11290. Re: [TS-520_820_530_830] Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 02:40:51 UTC
From: John Harp
Topic: 11283 Message: 11290

Steve I got LOTW and I pipe in my log results form a compatible software. I got winlog 32 and am trying that out for now. I wound up in the same boat as you. Just starting e-logging.

There are a number of applications offered. That's just what I ventured into so far. It's all available on downloads off the web too. I also have eqsl.

Steve <sbhanson@...> wrote:
I need a recommendation for a simple-to-use Logging Program. I am returning to radio after a five-year absence, and use mostly vintage gear, and a laptop.

I used to use LOG-E-Q-F, but have lost my files, so must now transfer many paper logs/QSL cards to new program.

Many thanks,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11291. Re: [TS-520_820_530_830] Re: Animals in the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 02:50:34 UTC
From: John Harp
Topic: 11174 Message: 11291

no that was in the deep fryer in the garage over the winter.

No the back of my 830's seem to collect lint, fir and hair right around the switches. Right behind the face panels. You think it had been left above the dryer for storage by the way it got caked in there.

No I've since moved the station to an outbuilding thats away from the noise so I can listen to weaker signals. That got me away from the pet danders too. That's why I warned you about cleaning behind the panel. well that and to give you a laugh. But it is true. So look into it. Insulation belongs to the walls and the heat from the linear.

Geoff Hegarty <geoff_hegarty@...> wrote:
I have to ask, John. It wasn't an eight-legged surprise, was it?

I always remember as a child, every time my father pulled the chassis out of
our 6-tube/valve floor-standing radio, there was a mouse that had managed to
fry itself on some part of the HT wiring.

Geoff VK2HQA

>From: John Harp <ka3dpw@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: Animals in the group
>Date: Wed, 29 Nov 2006 18:35:40 -0800 (PST)
>
>Now that's a great pet story. Don't forget to clean behind the 530 face
>plate. I opened my 830 and found a hairy surprise.

_____
Advertisement: 110,000+ cars with the click of a mouse at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838593&_t=757768878&_r=endtext_110000&_m=EXT

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11292. Re: Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 04:28:52 UTC
From: Jeff
Topic: 11283 Message: 11292

Steve,

I like jLog. Very easy to use. I went through about 5 logging programs before settling on this one, as it was the easiest I could find that did what I wanted it to do with ease. Go to http://jlog.org/ to get it.

73 de Jeff, KF5KWO

11293. Re: Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 05:06:57 UTC
From: digs4ruff
Topic: 11283 Message: 11293

For some reason I can't connect.
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Jeff" <kf5kwo@...> wrote:
>
> Steve,
>
> I like jLog. Very easy to use. I went through about 5 logging
> programs before settling on this one, as it was the easiest I could
> find that did what I wanted it to do with ease. Go to
> http://jlog.org/ to get it.
>
> 73 de Jeff, KF5KWO
>

11294. Transformers, audio and power, other parts.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 10:09:26 UTC
From: n9wb
Topic: 11294 Message: 11294

http://www.evatco.com.au/index.htm

I stumbled across this while searching for something else. Worth book marking if you are restoring olde things.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11295. Re: [TS-520_820_530_830] Re: Mystery Parts - Sprague

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 10:11:44 UTC
From: n9wb
Topic: 11142 Message: 11295

I'm betting with Geoff that it is a transformer. Looks like it has 3 windings.
My guess that it is a toroidal. Guessing one of two uses. A power transformer for a switching supply circuit of some kind of an audio transformer. This is just a very wild guess.

If you have an audio generator, feed an audio signal into one of the windings and compare the voltage peaks on the other two windings. Do this feeding all 3 windings one at a time looking for substantial differences.. This will give you an idea if it is a 1:1 ratio or a different ratio.

Next send audio signals through it from 10 Hz to the upper limit of your generator and observe the output on the scope. See what it's frequency range is.

BTW, nice job on the restoration of the Heathkit and power supply.

Vy 73, Walt N9WB

----- Original Message -----
From: digs4ruff
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, November 26, 2006 5:36 PM
Subject: [TS-520_820_530_830] Re: Mystery Parts - Sprague

Geoff
I have added a 3rd pic of the back side showing the numbering on the leads. Ohmeter indicates 0.1 ohm as follows with all other permutations as open:
lead 1-2
lead 3-4
lead 5-6
Same measurements when polarity is reversed.
thanks for the help
Barry

--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty" <geoff_hegarty@...> wrote:
>
> Hi Wonderful Group
>
> I wouldn't mind betting that it was a coupling transformer of some
> description - tho I'm only guessing. Two centre-tapped windings perhaps???
> Wwhat do you see between the leads with a multimeter?
>
> Geoff VK2HQA

>
>
> >From: John Harp <ka3dpw@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: Re: [TS-520_820_530_830] Mystery Parts - Sprague
> >Date: Sun, 26 Nov 2006 10:37:45 -0800 (PST)
> >
> >can only see a case with ventilation holes on two sides, the
color is grey.
> >Not enough detail to tell anything else.
> >
> >digs4ruff <digs4ruff@...> wrote: In some parts I
recently
> >acquired are a quantity of
> >Sprague 93Z20 V7052
> >Photo has been uploaded to VA7GEM folder
> >http://ph.groups.yahoo.com/group/TS-
520_820_530_830/photos/view/4cc6?
> >b=22
> >Anyone know what this is?
> >thanks
> >Barry
> >

11296. Re: [TS-520_820_530_830] Transformers, audio and power, other parts.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 16:00:12 UTC
From: Bill Scurlock
Topic: 11294 Message: 11296

Walt.

Thanks for the very interesting parts site info. It was a real lesson in economics. I'm going to go to the barn, move all my old parts into better storage conditions, and start treating them with TLC. Glad I've been hanging onto "stuff" for the last 45+ years.

73, Bill, K5GCW
----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 01, 2006 4:09 AM
Subject: [TS-520_820_530_830] Transformers, audio and power, other parts.

http://www.evatco.com.au/index.htm

I stumbled across this while searching for something else. Worth book marking if you are restoring olde things.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11297. Re: Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 16:07:09 UTC
From: taephono
Topic: 11283 Message: 11297

Steve,
Welcome back!!
2 years ago I came back after a 8 year absence, after doing some looking for a logging program I choose DX Keeper, part of the DXLabs Suite of programs. Its a free program with lots of user support, and a Yahoo mailing list reflector.. this program is constantly being worked on and improved based on users input.

You can find all the info here:
http://www.dxlabsuite.com/

73,
Clint
WS1V

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <sbhanson@...> wrote:
>
> I need a recommendation for a simple-to-use Logging Program. I am returning to radio after a five-year absence, and use mostly vintage gear, and a laptop.
>
> I used to use LOG-E-Q-F, but have lost my files, so must now transfer many paper logs/QSL cards to new program.
>
> Many thanks,
>
> Steve in Maine
> ke1lg
>
> [Non-text portions of this message have been removed]
>

11298. Re: [TS-520_820_530_830] Re: Need Logging Program...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-01 21:25:13 UTC
From: Dave and Loraine
Topic: 11283 Message: 11298

Hi Clint,
The installer starts to load AviEdit!
Is that normal / required for DXLab ?
73 Dave F4EYK

11299. WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-02 00:19:21 UTC
From: John Harp
Topic: 11299 Message: 11299

Well here's my posting to the group. I finally decided to post a wanted ad. I'm looking for a Kenwood HC-10 Digital Desk Clock
Wanted

contact me on QSO group or individually off the side. TNX-KA3DPW

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11300. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-11-30 02:41:34 UTC
From: Karl Schwab
Topic: 11243 Message: 11300

Hi John, yes the 15th of Dec is official. You can
check it all out at www.arrl.org 73, de KO8S

--- John Harp <ka3dpw@...> wrote:

> I'll go 75 phone. 9 land on 40's a breeze. 80 should
> be a go too. I hadn't heard Dec 15th officially. I
> calculated it to be about right. Did they anounce
> that yet as being the official date?
>
> Ellen R <ellenjoanne2003@...> wrote:
> Hi everybody,
>
> As Walt mentioned, him and I own the Kenwood QSO
> group. We are at
> the bottom of the solar cycle. As a result of this,
> even 40 is long
> by 7 PM (not to mention, having horrendous BCI at
> night). BUT,
> 75m/80m has been doing better. I belong to a
> Hellschreiber group
> (the Feld Hell Club), and run their 80m net on
> Tuesday nights. Last
> night, using just 80W from my rig (a Yaesu FT-897D -
> sorry, I reserve
> Ms. TS-820 for relaxed SSB & CW QSOs) I ahd
> check-ins from coast-to
> coast on 3587 kHz. I think it may be worth it to try
> a Kenwood net
> on 75m. In the past, this would have been tatamount
> to comitting RF
> suicide, with all of the activity on 75. But with
> the Omnibus ruling
> taking effect on Dec. 15, the phone band will be
> opening up quite a
> bit. Extras like will be able to work all the way
> down to 3600 kHz.
> Advanced Class licensees will be able to work down
> to 3700 kHz, and
> Generals will be able to work down to 3800 kHz.
>
> Could you all provide me with some feedback? Do you
> think that a 75m
> Kenwood net would be doable? If so, what frequency

> or frequencies do
> you recommend (especially since I'm not that
> familiar with the nets
> on 75). In my personal opinion, somewhere around
> 3805 kHz might be
> good, to include all members in the net who are
> General Class or
> higher. Please give me some feedback.
>
> 73,
> Ellen - AF9J
>
> P.S. - BTW, I'm eveng ame to try a net on 160m, I
> made some antenna
> revisiis recently that have really improved my low
> band signal.
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb"
> <n9wb@...> wrote:
> >
> > Ellen AF9J and Myself N9WB Started a Yahoo group a
> few months ago.
> It is called KenwoodQSO. This is a group where users
> of this and
> other specific groups can post frequencies where
> they are listening
> and calling CQ. We are restoring some super rigs, we
> need to talk to
> each other on them. Often we hesitate to break into
> existing
> conversations because we wonder if we are welcome.
> Anyone who posts
> on the KenwoodQSO group welcome others to join them.
> That means YOU!.
> We also encourage you to post.
> >
> > Eventually, when band conditions improve, Ellen
> wants to start a
> Kenwood Hybrid net. Band conditions have been
> terrible this winter so
> success has been marginal, but the more people we
> have participating
> and the more often they post, many of us who have
> become friends here
> will be able to talk on the air. We are at the very
> bottom of the
> sunspot cycle, but reverse sun spots have already
> been observed.
> Conditions have no way to go but up to what is
> predicted to be one of

> the best cycles in my lifetime! I am 57.
> >
> > We do not have this group listed in the Yahoo
> directory. If you
> wish to join, you can search Yahoo Groups for
> KenwoodQSO or e-mail
> Ellen or myself and we will send you an invitation.
> >
> > We have two other groups, one is KenwoodMics where
> the discussion
> of mikes on Kenwoods as well as improved audio can
> take place and
> astaticmicrophones. This group was established by
> Frank K2NCC for us
> to discuss Astatic repairs and modifications.
> >
> > If you are a member of this group, you are welcome
> to join these
> additional groups.
> >
> > Vy 73, Walt N9WB
> >
> > [Non-text portions of this message have been
> removed]
> >
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been
> removed]
>
>
>
>
> Yahoo! Groups Links
>
>
http://groups.yahoo.com/group/TS-520_820_530_830/join
> (Yahoo! ID required)
>
>
>

mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

Want to start your own business?
Learn how on Yahoo! Small Business.
http://smallbusiness.yahoo.com/r-index

Want to start your own business?
Learn how on Yahoo! Small Business.
http://smallbusiness.yahoo.com/r-index

11301. NM QSO Party tonight?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-02 23:04:14 UTC
From: Jeff
Topic: 11301 Message: 11301

Anyone going to be participating? I'm going to try with my TS-520SE.

73 de Jeff, KF5KWO
Helotes, TX

11302. Re: NM QSO Party tonight?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 00:41:18 UTC
From: David S Lund
Topic: 11301 Message: 11302

--- In TS-520_820_530_830@yahoogroups.com, "Jeff" <kf5kwo@...> wrote:
>
> Anyone going to be participating? I'm going to try with my TS-520SE.
>
> 73 de Jeff, KF5KWO
> Helotes, TX
>

I may give the bands a listen for a spell tonight.

David KB5DRJ

11303. Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 08:00:51 UTC
From: pa3agz
Topic: 11299 Message: 11303

John,

Love to see a picture of this HC-10 Kenwood clock.
Are they still available ???

I've a HC-2 hamclock, but a wooden replica has been made, by another ham in the Netherlands.

The pictures are in the photo database.

Regards,

Bill - PA3AGZ.

11304. Has 12BY7A been replaced by solid-state J-Fet's ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 08:20:49 UTC
From: pa3agz
Topic: 11304 Message: 11304

Is there anyone how knows of this driver-tube replacement bij J-Fet's ?
They are sometimes called transistor-tubes ?

Hope to hear from you soon ??? (Direct or via this forum)

Bill - PA3AGZ

11306. WTB: Sp-230 External Speaker

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 14:00:25 UTC
From: Steve
Topic: 11306 Message: 11306

I'm looking for an SP-230 external speaker, with cable and manual, for my 830s.

Please respond off-list:

sbhanson@...

Many thanks,

Steve in Maine

[Non-text portions of this message have been removed]

11307. Re: TS-830S - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 20:59:34 UTC
From: Kevin & Natalia
Topic: 11307 Message: 11307

Hi All,

Slowly getting there, found that I only have 400v on the HT (HV) line, so there is a low voltage.
Have checked the diodes and the caps, and these all look okay, so probing deeper.

Could someone please tell me what the markings on the transformer are, the service manual does not note them. The input side is fine, it marks the voltage lines okay, but the secondary side is as follows

R1
R2
E1
E2
B1
BCT (B Centre Tap)
B2
C1
CCT (C Centre Tap)
C2

I can probe the terminals, but if someone could give me the correct readings, I can then check them against it.

My TS-830 is a 240 volt model, for New Zealand.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, November 21, 2006 11:02 PM
Subject: Re: [TS-520_820_530_830] New to Group - No Power Output

Kevin:
I doubt that it is the tubes. With your meter switch on HV what is your high voltage?

It should be in the area of 800 V. If it is low like 400 V you have bad High voltage filter capacitors C-22 and c-24 or a bad diode, D1,D2,D3,D4.

If the high voltage reads correctly, take the cover off of the rig and measure the voltage at the point labeled SG on the bottom of the final board. It should read a bit over 200 VDC.

Use caution around the rectifier board, the capacitors, and the transformer as well as inside of the final unit. There is 800 Volts there.

Does the rig get a normal ALC reading with the meter switch on ALC when tuning up and peaking the drive control ?

Let us know the results from the above.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, November 20, 2006 10:08 PM
Subject: [TS-520_820_530_830] New to Group - No Power Output

Hi All,

Thanks to allowing me join this group.

As a owner of a TS-830, I am glad to be able to find this group, and hopefully help with advice, and also receive.

Today, I am in the need of help.

My TS-830, in my care for 5 years, has decided in the past few days to stop transmitting. The last activity was the CQWW contest a few weeks back. The next time I tried using it, I got very little, to no power output. Now I get nothing, bias has even dropped to nothing, well only about 5-10ma, it had been sitting steady on 60ma, as the manual mentions without any problem.

I am guessing the tubes have died, and will need replacing?
I know they are 6146B's, and have checked on eBay and found 6146W's.
What are the differnce between these type? I did hear that the "B" are better?

One comment I received during the contest, was that he could hear a buzz on the TX. Might of been the start of it's death. :(

Any help of any sort would be grateful, wish to get the radio back working, and operating.

Regards
Kevin, ZL1KFM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date: 11/20/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11308. low voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 23:35:01 UTC
From: Don
Topic: 11308 Message: 11308

Sounds like you shoul check the input voltage selector switch on the
rear of the radio.
Don
W4JVY

11309. Re: [TS-520_820_530_830] Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 02:11:01 UTC
From: John Harp
Topic: 11299 Message: 11309

They're still around. You see them for sale once in a while. I just chose carefully my post.

I'm setting up my staion accessories for my TS-830 layoutand it would add a nice touch. I build one oiece at a time. I've been on 830's since the early 1980's. It was my first bought brand new radio and the finacing was a major expense. I still wouldn't trade it.

My outlay has 830 and the SP-230 matching speaker and MC-50 mic .I have the VFO 230 so far. that's the one with the digital display and 5 memories.

I've recently aquired a couple of TV-502 Transverters, which should be ready by the end of winter. I still search for the 6 meter unit as well.

Now I do have some other station stuff that's not vintage but can keep the staion going, but my aim is vintage as much as possible. It's a dream I've had for years.

I'm just grabbing it up before you can't get it anymore.

pa3agz <pa3agz@...> wrote:
John,

Love to see a picture of this HC-10 Kenwood clock.
Are they still available ???

I've a HC-2 hamclock, but a wooden replica has been made, by another
ham in the Netherlands.

The pictures are in the photo database.

Regards,

Bill - PA3AGZ.

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11310. Re: [TS-520_820_530_830] Has 12BY7A been replaced by solid-state J-Fet's ???

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 02:13:44 UTC
From: John Harp
Topic: 11304 Message: 11310

I have not heard of this replacement you speak of per say, but I wouldn't be suprised since I've seen similar mods done on other vintage radios.

pa3agz <pa3agz@...> wrote:

Is there anyone how knows of this driver-tube replacement bij J-Fet's ?
They are sometimes called transistor-tubes ?

Hope to hear from you soon ??? (Direct or via this forum)

Bill - PA3AGZ

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11311. Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 03:09:00 UTC
From: ve3tmt
Topic: 11299 Message: 11311

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>

> I'm just grabbing it up before you can't get it anymore.

I agree John. I'm on my second 830, but this time I have the matching tuner, speaker and digital VFO. I owned an SM-220 scope a while back but traded it away. Not that I need one, but it would be nice to have the piece for the collection. They are just so darned expensive. Same for the TL-922 amp. Would be nice to have but not sure I could afford the electricity to use it!

I'll keep my eyes out for the clock.

Max

11312. RE: [TS-520_820_530_830] Re: TS-830S - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 03:24:54 UTC
From: Geoff Hegarty
Topic: 11307 Message: 11312

Hi Kevin

When you say that the caps are OK, have you actually measured the capacitance of both in the HV supply? If one cap is open or low in capacity, it will mean that one side of the voltage doubler won't work and this will give you around the 400v that you are geting.

Apologies if you have already considered this, but 50% HV is uaually a capacitor or diode problem, as Walt pointed out.

Regards
Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] Re: TS-830S - No Power Output
>Date: Mon, 4 Dec 2006 09:59:34 +1300
>
>Hi All,
>
>Slowly getting there, found that I only have 400v on the HT (HV) line, so
>there is a low voltage.
>Have checked the diodes and the caps, and these all look okay, so probing
>deeper.
>
>Could someone please tell me what the markings on the transformer are, the
>service manual does not note them. The input side is fine, it marks the
>voltage lines okay, but the secondary side is as follows
>
>R1
>R2
>E1
>E2
>B1
>BCT (B Centre Tap)
>B2
>C1
>CCT (C Centre Tap)
>C2
>
>I can probe the terminals, but if someone could give me the correct
>readings, I can then check them against it.
>
>My TS-830 is a 240 volt model, for New Zealand.
>

>Regards
>
>Kevin, ZL1KFM.
>
>
>Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, November 21, 2006 11:02 PM
> Subject: Re: [TS-520_820_530_830] New to Group - No Power Output
>
>
> Kevin:
> I doubt that it is the tubes. With your meter switch on HV what is your
>high voltage?
>
> It should be in the area of 800 V. If it is low like 400 V you have bad
>High voltage filter capacitors C-22 and c-24 or a bad diode, D1,D2,D3,D4.
>
> If the high voltage reads correctly, take the cover off of the rig and
>measure the voltage at the point labeled SG on the bottom of the final
>board. It should read a bit over 200 VDC.
>
> Use caution around the rectifier board, the capacitors, and the
>transformer as well as inside of the final unit. There is 800 Volts there.
>
> Does the rig get a normal ALC reading with the meter switch on ALC when
>tuning up and peaking the drive control ?
>
> Let us know the results from the above.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 20, 2006 10:08 PM
> Subject: [TS-520_820_530_830] New to Group - No Power Output
>
> Hi All,
>
> Thanks to allowing me join this group.
>
> As a owner of a TS-830, I am glad to be able to find this group, and
> hopefully help with advice, and also receive.
>
> Today, I am in the need of help.

>
> My TS-830, in my care for 5 years, has decided in the past few days
> to stop transmitting. The last activity was the CQWW contest a few
> weeks back. The next time I tried using it, I got very little, to no
> power output. Now I get nothing, bias has even dropped to nothing,
> well only about 5-10ma, it had been sitting steady on 60ma, as the
> manual mentions without any problem.
>
> I am guessing the tubes have died, and will need replacing?
> I know they are 6146B's, and have checked on eBay and found 6146W's.
> What are the differnce between these type? I did hear that the "B"
> are better?
>
> One comment I received during the contest, was that he could hear a
> buzz on the TX. Might of been the start of it's death. :(
>
> Any help of any sort would be grateful, wish to get the radio back
> working, and operating.
>
> Regards
> Kevin, ZL1KFM
>
> ---
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date:
>11/20/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>[Non-text portions of this message have been removed]
>

Advertisement: Meet Sexy Singles Today @ Lavalife - Click here
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Flavalife9%2Eninemsn%2Ecom%2Eau%2Fclickthru%2Fclickthru%2Eact%3Fid%3Dninemsn%26context%3Dan99%26locale%3Den%5FAU%26a%3D23769&_t=754951090&_r=endtext_lavalife_dec_meet&_m=EXT

11313. Re: TS-830S - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 03:46:42 UTC
From: Clif
Topic: 11307 Message: 11313

One of the large filter caps in the middle of the radio is open.
Measure the voltage across each one. It should be around 450 volts. Do
not measure to ground, measure plus to minus on each cap. One will
read close to zero.

BE CAREFUL IT CAN KILL YOU

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
<sparcnz@...> wrote:
>
> Hi All,
>
> Slowly getting there, found that I only have 400v on the HT (HV)
line, so there is a low voltage.
> Have checked the diodes and the caps, and these all look okay, so
probing deeper.
>
> Could someone please tell me what the markings on the transformer
are, the service manual does not note them. The input side is fine, it
marks the voltage lines okay, but the secondary side is as follows
>
> R1
> R2
> E1
> E2
> B1
> BCT (B Centre Tap)
> B2
> C1
> CCT (C Centre Tap)
> C2
>
> I can probe the terminals, but if someone could give me the correct
readings, I can then check them against it.
>
> My TS-830 is a 240 volt model, for New Zealand.
>
> Regards
>
> Kevin, ZL1KFM.
>
>
> Get Skype and call me for free.
>

>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, November 21, 2006 11:02 PM
> Subject: Re: [TS-520_820_530_830] New to Group - No Power Output
>
>
> Kevin:
> I doubt that it is the tubes. With your meter switch on HV what is
your high voltage?
>
> It should be in the area of 800 V. If it is low like 400 V you
have bad High voltage filter capacitors C-22 and c-24 or a bad diode,
D1,D2,D3,D4.
>
> If the high voltage reads correctly, take the cover off of the rig
and measure the voltage at the point labeled SG on the bottom of the
final board. It should read a bit over 200 VDC.
>
> Use caution around the rectifier board, the capacitors, and the
transformer as well as inside of the final unit. There is 800 Volts
there.
>
> Does the rig get a normal ALC reading with the meter switch on ALC
when tuning up and peaking the drive control ?
>
> Let us know the results from the above.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 20, 2006 10:08 PM
> Subject: [TS-520_820_530_830] New to Group - No Power Output
>
> Hi All,
>
> Thanks to allowing me join this group.
>
> As a owner of a TS-830, I am glad to be able to find this group, and
> hopefully help with advice, and also receive.
>
> Today, I am in the need of help.
>
> My TS-830, in my care for 5 years, has decided in the past few days
> to stop transmitting. The last activity was the CQWW contest a few
> weeks back. The next time I tried using it, I got very little, to no
> power output. Now I get nothing, bias has even dropped to nothing,

> well only about 5-10ma, it had been sitting steady on 60ma, as the
> manual mentions without any problem.
>
> I am guessing the tubes have died, and will need replacing?
> I know they are 6146B's, and have checked on eBay and found 6146W's.
> What are the differnce between these type? I did hear that the "B"
> are better?
>
> One comment I received during the contest, was that he could hear a
> buzz on the TX. Might of been the start of it's death. :(
>
> Any help of any sort would be grateful, wish to get the radio back
> working, and operating.
>
> Regards
> Kevin, ZL1KFM
>
> --
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date:
11/20/06
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11314. Re: [TS-520_820_530_830] Re: TS-830S - No Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 04:37:53 UTC
From: Kevin & Natalia
Topic: 11307 Message: 11314

To Geoff and Cliff,

Thanks for the input, I had checked the caps, but not as you both described, was measuring to earth (ground).
I have now gone back and checked them, and believe they have both gone(maybe), as neither are showing anywhere near 400v. One is reading 95v and the other 118v. Will look at replacements.
I was checking the input to the rectifier board at AC800, and was only getting 335vAC, so thought the transformer might of gone. Looking in the wrong place. (again) Output at 800 was 540v

Regards

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Geoff Hegarty
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 04, 2006 4:24 PM
Subject: RE: [TS-520_820_530_830] Re: TS-830S - No Power Output

Hi Kevin

When you say that the caps are OK, have you actually measured the capacitance of both in the HV supply? If one cap is open or low in capacity, it will mean that one side of the voltage doubler won't work and this will give you around the 400v that you are geting.

Apologies if you have already considered this, but 50% HV is uaually a capacitor or diode problem, as Walt pointed out.

Regards
Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] Re: TS-830S - No Power Output
>Date: Mon, 4 Dec 2006 09:59:34 +1300
>
>Hi All,
>
>Slowly getting there, found that I only have 400v on the HT (HV) line, so
>there is a low voltage.
>Have checked the diodes and the caps, and these all look okay, so probing

>deeper.
>
>Could someone please tell me what the markings on the transformer are, the
>service manual does not note them. The input side is fine, it marks the
>voltage lines okay, but the secondary side is as follows
>
>R1
>R2
>E1
>E2
>B1
>BCT (B Centre Tap)
>B2
>C1
>CCT (C Centre Tap)
>C2
>
>I can probe the terminals, but if someone could give me the correct
>readings, I can then check them against it.
>
>My TS-830 is a 240 volt model, for New Zealand.
>
>Regards
>
>Kevin, ZL1KFM.
>
>
>Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: n9wb
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, November 21, 2006 11:02 PM
> Subject: Re: [TS-520_820_530_830] New to Group - No Power Output
>
>
> Kevin:
> I doubt that it is the tubes. With your meter switch on HV what is your
>high voltage?
>
> It should be in the area of 800 V. If it is low like 400 V you have bad
>High voltage filter capacitors C-22 and c-24 or a bad diode, D1,D2,D3,D4.
>
> If the high voltage reads correctly, take the cover off of the rig and
>measure the voltage at the point labeled SG on the bottom of the final
>board. It should read a bit over 200 VDC.
>
> Use caution around the rectifier board, the capacitors, and the
>transformer as well as inside of the final unit. There is 800 Volts there.

>
> Does the rig get a normal ALC reading with the meter switch on ALC when
>tuning up and peaking the drive control ?
>
> Let us know the results from the above.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Kevin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, November 20, 2006 10:08 PM
> Subject: [TS-520_820_530_830] New to Group - No Power Output
>
> Hi All,
>
> Thanks to allowing me join this group.
>
> As a owner of a TS-830, I am glad to be able to find this group, and
> hopefully help with advice, and also receive.
>
> Today, I am in the need of help.
>
> My TS-830, in my care for 5 years, has decided in the past few days
> to stop transmitting. The last activity was the CQWW contest a few
> weeks back. The next time I tried using it, I got very little, to no
> power output. Now I get nothing, bias has even dropped to nothing,
> well only about 5-10ma, it had been sitting steady on 60ma, as the
> manual mentions without any problem.
>
> I am guessing the tubes have died, and will need replacing?
> I know they are 6146B's, and have checked on eBay and found 6146W's.
> What are the differnce between these type? I did hear that the "B"
> are better?
>
> One comment I received during the contest, was that he could hear a
> buzz on the TX. Might of been the start of it's death. :(
>
> Any help of any sort would be grateful, wish to get the radio back
> working, and operating.
>
> Regards
> Kevin, ZL1KFM
>
> --
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.10/541 - Release Date:
>11/20/06

>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>[Non-text portions of this message have been removed]
>

_____
Advertisement: Meet Sexy Singles Today @ Lavalife - Click here
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Flavalife9%2Eninemsn%2Ecom%2Eau%2Fclickthru%2Fclickthru%2Eact%3Fid%3Dninemsn%26context%3Dan99%26locale%3Den%5FAU%26a%3D23769&_t=754951090&_r=endtext_lavalife_dec_meet&_m=EXT

[Non-text portions of this message have been removed]

11315. Re: [TS-520_820_530_830] Re: KenwoodQSO Yahoo group - a proposed idea for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-03 00:15:05 UTC
From: John Harp
Topic: 11243 Message: 11315

Thanks, I'm looking foreward to this, This is another mark in Amateur radio history. Biggest for me since 10 meter phone privileges for novice about the same time we gained access to the WARC Bands. I remember doing the mod on my 830 then.

Karl Schwab <ktschwab@...> wrote: Hi John, yes the 15th of Dec is official. You can check it all out at www.arrl.org 73, de KO8S

--- John Harp <ka3dpw@...> wrote:

> I'll go 75 phone. 9 land on 40's a breeze. 80 should
> be a go too. I hadn't heard Dec 15th officially. I
> calculated it to be about right. Did they anounce
> that yet as being the official date?
>
> Ellen R <ellenjoanne2003@...> wrote:
> Hi everybody,
>
> As Walt mentioned, him and I own the Kenwood QSO
> group. We are at
> the bottom of the solar cycle. As a result of this,
> even 40 is long
> by 7 PM (not to mention, having horrendous BCI at
> night). BUT,
> 75m/80m has been doing better. I belong to a
> Hellschreiber group
> (the Feld Hell Club), and run their 80m net on
> Tuesday nights. Last
> night, using just 80W from my rig (a Yaesu FT-897D -
> sorry, I reserve
> Ms. TS-820 for relaxed SSB & CW QSOs) I ahd
> check-ins from coast-to
> coast on 3587 kHz. I think it may be worth it to try
> a Kenwood net
> on 75m. In the past, this would have been tatamount
> to comitting RF
> suicide, with all of the activity on 75. But with
> the Omnibus ruling
> taking effect on Dec. 15, the phone band will be
> opening up quite a
> bit. Extras like will be able to work all the way
> down to 3600 kHz.
> Advanced Class licensees will be able to work down
> to 3700 kHz, and
> Generals will be able to work down to 3800 kHz.

>
> Could you all provide me with some feedback? Do you
> think that a 75m
> Kenwood net would be doable? If so, what frequency
> or frequencies do
> you recommend (especially since I'm not that
> familiar with the nets
> on 75). In my personal opinion, somewhere around
> 3805 kHz might be
> good, to include all members in the net who are
> General Class or
> higher. Please give me some feedback.
>
> 73,
> Ellen - AF9J
>
> P.S. - BTW, I'm eveng ame to try a net on 160m, I
> made some antenna
> revisiis recently that have really improved my low
> band signal.
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb"
> <n9wb@...> wrote:
> >
> > Ellen AF9J and Myself N9WB Started a Yahoo group a
> few months ago.
> It is called KenwoodQSO. This is a group where users
> of this and
> other specific groups can post frequencies where
> they are listening
> and calling CQ. We are restoring some super rigs, we
> need to talk to
> each other on them. Often we hesitate to break into
> existing
> conversations because we wonder if we are welcome.
> Anyone who posts
> on the KenwoodQSO group welcome others to join them.
> That means YOU!.
> We also encourage you to post.
> >
> > Eventually, when band conditions improve, Ellen
> wants to start a
> Kenwood Hybrid net. Band conditions have been
> terrible this winter so
> success has been marginal, but the more people we
> have participating
> and the more often they post, many of us who have
> become friends here
> will be able to talk on the air. We are at the very
> bottom of the

> sunspot cycle, but reverse sun spots have already
> been observed.
> Conditions have no way to go but up to what is
> predicted to be one of
> the best cycles in my lifetime! I am 57.
> >
> > We do not have this group listed in the Yahoo
> directory. If you
> wish to join, you can search Yahoo Groups for
> KenwoodQSO or e-mail
> Ellen or myself and we will send you an invitation.
> >
> > We have two other groups, one is KenwoodMics where
> the discussion
> of mikes on Kenwoods as well as improved audio can
> take place and
> astaticmicrophones. This group was established by
> Frank K2NCC for us
> to discuss Astatic repairs and modifications.
> >
> > If you are a member of this group, you are welcome
> to join these
> additional groups.
> >
> > Vy 73, Walt N9WB
> >
> > [Non-text portions of this message have been
> removed]
> >
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been
> removed]
>
>
>
>
> Yahoo! Groups Links
>
>
http://groups.yahoo.com/group/TS-520_820_530_830/join

> (Yahoo! ID required)
>
>
>
mailto:TS-520_820_530_830-fullfeatured@yahoogroups.com
>
>
>

Want to start your own business?
Learn how on Yahoo! Small Business.
http://smallbusiness.yahoo.com/r-index

Want to start your own business?
Learn how on Yahoo! Small Business.
http://smallbusiness.yahoo.com/r-index

Everyone is raving about the all-new Yahoo! Mail beta.

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11316. Re: [TS-520_820_530_830] Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 23:58:19 UTC
From: John Harp
Topic: 11299 Message: 11316

Thanks. I wanted the TL-922 but I just can't afford it right now. So I took one of my other amps an FL-2100B and got it connected. It works rater well. I can't QRO on 160, but I have all I need on 80 thru 10. I have another I will put on 160 thats a SB-220 clone. I want to change the 4-400's out and add the extra upgrading to make it 3-500Z. I already have new tubes. So up the Power Supply and add the extra grid circuitry. Drop the band switch and just set it up for 160.

Be nice to get SM-220 with BS-8 pan display. But again that's someday down the road. My shack will look something like out of the 20th century. Astatic D-104 I already have along with MC-50 and I will someday get a more original straight key and a bug. I've often thought about RTTY too.

For now getting transverters is a big step. Got 2 and need 6 meters. Making the cable is a project that I'm enjoying the challenge of including making my own connectors.

The immediate work is getting the heat working again. Got some of it last night. Started making a power control using the ALC line. I need to reduce power for driving the linears and QRP power for the transverters.

A few more wall panels I painted but didn't get up yet and about half the roof is insulated now. The doors I'll do to.

I have started solar power on a small scale. So alot is going on right now. Much of the materials I already have and been getting as I can.

A little at a time. Back to you.

ve3tmt <ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>

> I'm just grabbing it up before you can't get it anymore.

I agree John. I'm on my second 830, but this time I have the matching
tuner, speaker and digital VFO. I owned an SM-220 scope a while back
but traded it away. Not that I need one, but it would be nice to have
the piece for the collection. They are just so darned expensive. Same
for the TL-922 amp. Would be nice to have but not sure I could afford
the electricity to use it!

I'll keep my eyes out for the clock.

Max

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done

faster.

[Non-text portions of this message have been removed]

11317. 2X Capacitors Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-04 23:51:13 UTC
From: Kevin & Natalia
Topic: 11317 Message: 11317

Hi All,

I have pulled my 2 large capacitors from my TS-830, for the voltage doubler. Both have failed.
I am now in need to obtain a couple of replacements. However they are not available here in NZ (ZL Land), and will need to source from over-seas.

My questions, is there a source of these available, direct replacement?
If so, could I please grab the address, so I can order them.

FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.

Regards

Kevin, ZL1KFM.

[Non-text portions of this message have been removed]

11318. Re: 2X Capacitors Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 01:19:15 UTC
From: Clif
Topic: 11317 Message: 11318

Kenwood USA ran out about 6-7 years ago. I buy them from Digikey but they are not the same size. I don't know where to tell you "down under"

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia" <sparcnz@...> wrote:
>
> Hi All,
>
> I have pulled my 2 large capacitors from my TS-830, for the voltage doubler. Both have failed.
> I am now in need to obtain a couple of replacements. However they are not available here in NZ (ZL Land), and will need to source from over-seas.
>
> My questions, is there a source of these available, direct replacement?
> If so, could I please grab the address, so I can order them.
>
> FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
>
> Regards
>
> Kevin, ZL1KFM.
>
>
> [Non-text portions of this message have been removed]
>

11319. Re: 2X Capacitors Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 02:34:40 UTC
From: Rick
Topic: 11317 Message: 11319

Hi Kevin

Have you tried Evatco? Their web and email addresses are:-

http://evatco.com.au/
evatco@...

They might be able to help
Regards
Rick

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
<sparcnz@...> wrote:
>
> Hi All,
>
> I have pulled my 2 large capacitors from my TS-830, for the voltage
doubler. Both have failed.
> I am now in need to obtain a couple of replacements. However they
are not available here in NZ (ZL Land), and will need to source from
over-seas.
>
> My questions, is there a source of these available, direct
replacement?
> If so, could I please grab the address, so I can order them.
>
> FWIW, these are the 100uF, 500v ones, mounted in the middle of the
rig.
>
> Regards
>
> Kevin, ZL1KFM.
>
>
> [Non-text portions of this message have been removed]
>

11320. RE: [TS-520_820_530_830] 2X Capacitors Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 03:58:12 UTC
From: Geoff Hegarty
Topic: 11317 Message: 11320

Hi Kevin

RS Components in Australia appear to have 100uf 500v caps. Go to:

http://www.rsaustralia.com/cgi-bin/bv/rswww/home.do?returningUser=N&cacheID=auie

and search for "capacitor 100uf 500v" and you should see two possible units.
I have never used them myself, but it looks as though you can order by phone
or online - and they seem very reasonably priced (about AU$8-10). You may
find that they are a different physical size from the originals, but as long
as they're close, that's not a big problem.

There may even be a similar outfit in NZ if you do a search on the internet.

Out of interest, why do you think the caps are the problem? Do they look
lumpy/leaky? What do you see with an ohmeter across the terminals? - BE VERY
CAREFUL that they are fully discharged and disconnect the wiring from at
least one side of the cap before applying an ohmeter.

Regards
Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] 2X Capacitors Wanted
>Date: Tue, 5 Dec 2006 12:51:13 +1300
>
>Hi All,
>
>I have pulled my 2 large capacitors from my TS-830, for the voltage
>doubler. Both have failed.
>I am now in need to obtain a couple of replacements. However they are not
>available here in NZ (ZL Land), and will need to source from over-seas.
>
>My questions, is there a source of these available, direct replacement?
>If so, could I please grab the address, so I can order them.
>
>FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
>
>Regards
>
>Kevin, ZL1KFM.
>
>
>[Non-text portions of this message have been removed]
>

_____
Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search Now!
www.seek.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT

11321. RE: [TS-520_820_530_830] 2X Capacitors Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 04:12:45 UTC
From: Geoff Hegarty
Topic: 11317 Message: 11321

Hi again kevin

RS Components New Zealand:

http://www.rsnewzealand.com/cgi-bin/bv/rswww/home.do?returningUser=N&cacheID=nzie

Regards
Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] 2X Capacitors Wanted
>Date: Tue, 5 Dec 2006 12:51:13 +1300
>
>Hi All,
>
>I have pulled my 2 large capacitors from my TS-830, for the voltage
>doubler. Both have failed.
>I am now in need to obtain a couple of replacements. However they are not
>available here in NZ (ZL Land), and will need to source from over-seas.
>
>My questions, is there a source of these available, direct replacement?
>If so, could I please grab the address, so I can order them.
>
>FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
>
>Regards
>
>Kevin, ZL1KFM.
>
>
>[Non-text portions of this message have been removed]
>

Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search Now!
www.seek.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT

11322. 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 04:57:28 UTC
From: Kevin & Natalia
Topic: 11322 Message: 11322

How critical are these capacitors to be 100uF, I can get 150uF, 500v, in the physical size I need, but not 100uF.

Thanks
Kevin.

Get Skype and call me for free.

----- Original Message -----
From: Geoff Hegarty
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 05, 2006 5:12 PM
Subject: RE: [TS-520_820_530_830] 2X Capacitors Wanted

Hi again kevin

RS Components New Zealand:

http://www.rsnewzealand.com/cgi-bin/bv/rswww/home.do?returningUser=N&cacheID=nzie

Regards
Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] 2X Capacitors Wanted
>Date: Tue, 5 Dec 2006 12:51:13 +1300
>
>Hi All,
>
>I have pulled my 2 large capacitors from my TS-830, for the voltage
>doubler. Both have failed.
>I am now in need to obtain a couple of replacements. However they are not
>available here in NZ (ZL Land), and will need to source from over-seas.
>
>My questions, is there a source of these available, direct replacement?
>If so, could I please grab the address, so I can order them.
>
>FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
>
>Regards
>
>Kevin, ZL1KFM.
>
>
>[Non-text portions of this message have been removed]

>

_____
Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search Now!
www.seek.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT

[Non-text portions of this message have been removed]

11323. RE: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 05:33:44 UTC
From: Geoff Hegarty
Topic: 11322 Message: 11323

Hi Kevin

Yes I'm sure there would be no problem going up in capacitance within reason
(150uf would be fine), but don't go below 100uf of course.

I think that 450 volt units have been used with no problems too - though
others may correct me on that.

Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.
>Date: Tue, 5 Dec 2006 17:57:28 +1300
>
>How critical are these capacitors to be 100uF, I can get 150uF, 500v, in
>the physical size I need, but not 100uF.
>
>Thanks
>Kevin.
>
>
>Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: Geoff Hegarty
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 05, 2006 5:12 PM
> Subject: RE: [TS-520_820_530_830] 2X Capacitors Wanted
>
>
> Hi again kevin
>
> RS Components New Zealand:
>
>
>http://www.rsnewzealand.com/cgi-bin/bv/rswww/home.do?returningUser=N&cacheID=nzie
>
> Regards
> Geoff VK2HQA
>
> >From: "Kevin & Natalia" <sparcnz@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: <TS-520_820_530_830@yahoogroups.com>

> >Subject: [TS-520_820_530_830] 2X Capacitors Wanted
> >Date: Tue, 5 Dec 2006 12:51:13 +1300
> >
> >Hi All,
> >
> >I have pulled my 2 large capacitors from my TS-830, for the voltage
> >doubler. Both have failed.
> >I am now in need to obtain a couple of replacements. However they are
>not
> >available here in NZ (ZL Land), and will need to source from over-seas.
> >
> >My questions, is there a source of these available, direct replacement?
> >If so, could I please grab the address, so I can order them.
> >
> >FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
> >
> >Regards
> >
> >Kevin, ZL1KFM.
> >
> >
> >[Non-text portions of this message have been removed]
> >
>
> ---
> Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search
>Now!
> www.seek.com.au
>
>http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r
=Hotmail_EndText_Dec06&_m=EXT
>
>
>
>
>
>[Non-text portions of this message have been removed]
>

Advertisement: It's simple! Sell your car for just $20 at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Db
in%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=e
ndtext_simple&_m=EXT

11324. Re: 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 05:41:20 UTC
From: David S Lund
Topic: 11322 Message: 11324

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
<sparcnz@...> wrote:
>
> How critical are these capacitors to be 100uF, I can get 150uF,
500v, in the physical size I need, but not 100uF.
>
> Thanks
> Kevin.

I have 150uF's in my TS-520SE with no problem. I bought them from
digikey and they fit the clamps just fine. I can dig for the part
number if you need it.

David KB5DRJ

11325. Re: [TS-520_820_530_830] Re: 2X Capacitors Wanted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 02:36:51 UTC
From: agoodridge
Topic: 11317 Message: 11325

G'day clif

I may have some that will help you out.

I will have a look tonight.

73
Anthony

VK2
---- Clif <clif@...> wrote:
> Kenwood USA ran out about 6-7 years ago. I buy them from Digikey but
> they are not the same size. I don't know where to tell you "down under"
>
> Clif
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
> <sparcnz@...> wrote:
> >
> > Hi All,
> >
> > I have pulled my 2 large capacitors from my TS-830, for the voltage
> doubler. Both have failed.
> > I am now in need to obtain a couple of replacements. However they
> are not available here in NZ (ZL Land), and will need to source from
> over-seas.
> >
> > My questions, is there a source of these available, direct replacement?
> > If so, could I please grab the address, so I can order them.
> >
> > FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
> >
> > Regards
> >
> > Kevin, ZL1KFM.
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>

11326. Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 08:35:35 UTC
From: n9wb
Topic: 11322 Message: 11326

As long as they are both 150 and the voltage is the same or higher, they will work fine. The next question is will they fit? Probably so because today's capacitors are physically smaller than the ones of years ago. The increased capacitance will stiffen up the high voltage regulation a bit and lower the hum a few more dB.
Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 04, 2006 11:57 PM
Subject: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

How critical are these capacitors to be 100uF, I can get 150uF, 500v, in the physical size I need, but not 100uF.

Thanks
Kevin.

Get Skype and call me for free.

----- Original Message -----
From: Geoff Hegarty
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 05, 2006 5:12 PM
Subject: RE: [TS-520_820_530_830] 2X Capacitors Wanted

Hi again kevin

RS Components New Zealand:

http://www.rsnewzealand.com/cgi-bin/bv/rswww/home.do?returningUser=N&cacheID=nzie

Regards
Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] 2X Capacitors Wanted
>Date: Tue, 5 Dec 2006 12:51:13 +1300
>
>Hi All,
>
>I have pulled my 2 large capacitors from my TS-830, for the voltage
>doubler. Both have failed.
>I am now in need to obtain a couple of replacements. However they are not
>available here in NZ (ZL Land), and will need to source from over-seas.

>
>My questions, is there a source of these available, direct replacement?
>If so, could I please grab the address, so I can order them.
>
>FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
>
>Regards
>
>Kevin, ZL1KFM.
>
>
>[Non-text portions of this message have been removed]
>

_____
Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search Now!
www.seek.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.6/567 - Release Date: 12/4/06

[Non-text portions of this message have been removed]

11327. Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-05 08:38:02 UTC
From: n9wb
Topic: 11322 Message: 11327

I would try to keep them 500 volts if possible. 450's may hang in there, but it is a degrade and brings the rated value dangerously close to the operating value.
Vy 73, Walt N9WB

----- Original Message -----
From: Geoff Hegarty
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 05, 2006 12:33 AM
Subject: RE: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Hi Kevin

Yes I'm sure there would be no problem going up in capacitance within reason (150uf would be fine), but don't go below 100uf of course.

I think that 450 volt units have been used with no problems too - though others may correct me on that.

Geoff VK2HQA

>From: "Kevin & Natalia" <sparcnz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.
>Date: Tue, 5 Dec 2006 17:57:28 +1300
>
>How critical are these capacitors to be 100uF, I can get 150uF, 500v, in
>the physical size I need, but not 100uF.
>
>Thanks
>Kevin.
>
>
>Get Skype and call me for free.
>
>
> ----- Original Message -----
> From: Geoff Hegarty
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 05, 2006 5:12 PM
> Subject: RE: [TS-520_820_530_830] 2X Capacitors Wanted
>
>
> Hi again kevin
>
> RS Components New Zealand:

>
>
>http://www.rsnewzealand.com/cgi-bin/bv/rswww/home.do?returningUser=N&cacheID=nzie
>
> Regards
> Geoff VK2HQA
>
> >From: "Kevin & Natalia" <sparcnz@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: <TS-520_820_530_830@yahoogroups.com>
> >Subject: [TS-520_820_530_830] 2X Capacitors Wanted
> >Date: Tue, 5 Dec 2006 12:51:13 +1300
> >
> >Hi All,
> >
> >I have pulled my 2 large capacitors from my TS-830, for the voltage
> >doubler. Both have failed.
> >I am now in need to obtain a couple of replacements. However they are
>not
> >available here in NZ (ZL Land), and will need to source from over-seas.
> >
> >My questions, is there a source of these available, direct replacement?
> >If so, could I please grab the address, so I can order them.
> >
> >FWIW, these are the 100uF, 500v ones, mounted in the middle of the rig.
> >
> >Regards
> >
> >Kevin, ZL1KFM.
> >
> >
> >[Non-text portions of this message have been removed]
> >
>
> --
> Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search
>Now!
> www.seek.com.au
>
>http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r
=Hotmail_EndText_Dec06&_m=EXT
>
>
>
>
>
>[Non-text portions of this message have been removed]
>

_____
Advertisement: It's simple! Sell your car for just $20 at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.6/567 - Release Date: 12/4/06

[Non-text portions of this message have been removed]

11328. Re: 820 rf board question

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-06 03:09:23 UTC
From: af4at2
Topic: 11166 Message: 11328

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>Walt sorry for the time lapse, I am very buisy at work now.
You were correct about losing bias.
Q5 shorted
D-7 open
R-38 (rf board) shorted (burned).
No voltage at any of the points.

Thank you very much, I will get the parts and when I have the time
I will replace them and see if I get voltage where I should.

73 Jim af4at....

> The control grid of your finals requires a negative voltage to keep
it from drawing excessive current. If it does not have this "Bias"
voltage, the tubes will burn up and damage the cathode resistors R2
and R3. When transmitting, this negative voltage is reduced to allow
the tube to draw 60 MA of cathode (plate) current. I suspect that you
have lost this bias voltage.
>
> First, remove the tubes. Position the plate caps so they do not get
into mischief. Next remove Q5 from the RF board. This is a 2sc1515.
Check it with your ohm meter.
>
> To do this position the flat side with the beveled top toward you
and have the legs pointing down. The right lead is the base. The
center lead is the base. The left leg is the emitter.
>
> Place the black ohm meter lead on the base and the red meter lead
on the collector. It will either read a high or low reading.
> Now reverse the leads and do the same thing. It should read high
with the leads one way and low with the leads the other way.
> If it shows low both ways, it is shorted.
>
> Now do the same thing but this time between the base lead and the
emitter lead. Again, it should read high with the leads one way and
low with them the other way.
> If it shows low both ways, it is shorted.
>
> Let us know if it appears to be shorted as you will need a new
transistor.
>
> Next Place your volt meter on DC volts. Find the center wiper of
the bias adj. pot on the back of the radio. With the tubes still out
and the SG switch on the back off, turn the radio on. Place the mode
switch in USB. With the red volt meter lead on the center of the

bias pot and the black lead to chassis ground, measure the voltage at the center of the bias pot. Observe this voltage while rotating this pot. It should change from one extreme to the other. Turn the radio off.
>
> Remove the damaged C-38. Measure the ohms of D-7 with the leads one way and then the other. One way should read much higher than the other.
>
> Now. on the RF board, locate the connector RF2 and R-25. Place the meter on DC Volts and a scale that will read 100 V. With the rig back on, measure the voltage on the ends of R-12. Do this with the red volt meter wire on the chassis and place the black meter wire on R-12. One end should read around -100 VDC.
>
> Let us know what you find and we can go from there.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: af4at2
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, November 26, 2006 11:18 PM
> Subject: [TS-520_820_530_830] 820 rf board question
>
>
> Good evening all.
>
> A few months ago I got an 820 with digital display,
> condition unknown.
>
> The receiver worked, the digital display was blank.
>
> By resoldering the connectors the display now works.
>
> I got brave and turned the heater switch on, then
> switched to tune mode. I got a really high ip reading.
> I turned the ip knob on the back of the rig fully counterclockwise and
> it was still pegging the meter in the tune mode.
> Then I got the final tube melt down along with r3 & 3.
>
> I replaced all the resistors in the final area, all the rectifier board
> resistors. Put in a used (known working set of 6146's and 12by7.
>
> This time when I switched to tune mode I still had high ip reading
> and there was a pop and smoke on the rf board (but the finals seemed

> to do ok.)
>
> On looking for physicaL evidence r-38 on the rf board is burned.
>
> Can someone give me a starting point to troubleshoot the rf board.
>
> Thanks
> Jim af4at
>
>
>
>
>
>
> ----------
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.14.16/551 - Release Date:
11/25/06
>
>
> [Non-text portions of this message have been removed]
>

11329. Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-06 21:47:14 UTC
From: Kevin & Natalia
Topic: 11322 Message: 11329

Walt,

Are you saying then, that one could go larger, if space allowed the fitting of the capacitor?
The larger the capacitor, the more filtering it would do, thus be a cleaner regulation?

With your information, I am going to get at least the 150uF, 500v items in the next few days, give the radio a Christmas present.

Thanks for yours and everyone's else's input, it has been a great help. Only hoping that this cures the problem, and gets me back on air with it.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 05, 2006 9:35 PM
Subject: Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

As long as they are both 150 and the voltage is the same or higher, they will work fine. The next question is will they fit? Probably so because today's capacitors are physically smaller than the ones of years ago. The increased capacitance will stiffen up the high voltage regulation a bit and lower the hum a few more dB.
Vy 73, Walt N9WB

.

[Non-text portions of this message have been removed]

11330. Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-07 10:24:03 UTC
From: n9wb
Topic: 11322 Message: 11330

Kevin:

Yes, going to higher uf will improve the filtering, and higher voltage will make it more rugged.

Now I don't recommend increasing the uf rating to an outrageous amount such as 400 uf because you can run into issues of increased in rush current surges wiping the diodes, the fuse, or the transformer when the rig is turned on.

But 150 uf at 500v will make a VERY suitable replacement choice.

While you are ordering parts, You may want to consider some other checks and replacements. While this is not absolutely necessary, the components I am mentioning below often weaken with age.

On the rectifier board:

You may wish to replace D-1 through D-11 on the rectifier board. Any general silicon diode rated at 1000 V and 1 amp will do. Some of the ones used on the lower voltage areas are now lower than 1000 V but this was done for cost. The 1000 V 1 amp types will do fine for these replacements.

I found some 1 amp 2000 V diodes that had the same leads as the originals and used them in my TS-820. These are even better. While this will not increase performance, it reduces the chance of failure. I am recommending the diodes be replaced because of age.

Also check R- 1,2,3 and 4. If you replace them use original ohms value and original 1/2 watt.

Also check R-8 as well as R-11, 12, and 13 with an ohm meter and replace them if they are more than 15 % off..

Observe the other resistors on this board and replace any that are bubbled, cracked or look fried.

On the final unit board, there are 4 resistors, R3, R4, R5, and R6. These are 20 ohm each. They are 1/2 watt. Observe these for cracks or serious bubbles. With an ohm meter, check across any one of them. This will check the total parallel value of them. This can be done in circuit. It should read very close to 5 ohms, the total value of these parallel resistors. If they look bad or check more than 6 ohms, replace them. How close to 5 ohms you expect to see depends on the accuracy of the ohm meter. Use the original 1/2 watt. Do not increase the wattage value of these. These act as a fuse if a final shorts and prevents more extensive damage.

Again, this is not mandatory, I am sure the new capacitors will solve your immediate problem. However, these are things I check when I am working on one.

I am assuming that this is a TS-830. If not, tell me which rig and I will change the above instructions.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 06, 2006 4:47 PM
Subject: Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Walt,

Are you saying then, that one could go larger, if space allowed the fitting of the capacitor?
The larger the capacitor, the more filtering it would do, thus be a cleaner regulation?

With your information, I am going to get at least the 150 uF, 500v items in the next few days, give the radio a Christmas present.

Thanks for yours and everyone's else's input, it has been a great help. Only hoping that this cures the problem, and gets me back on air with it.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 05, 2006 9:35 PM
Subject: Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

As long as they are both 150 and the voltage is the same or higher, they will work fine. The next question is will they fit? Probably so because today's capacitors are physically smaller than the ones of years ago. The increased capacitance will stiffen up the high voltage regulation a bit and lower the hum a few more dB.
Vy 73, Walt N9WB

.

11331. Stripping Small Coax

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-07 20:09:23 UTC
From: baumbrent
Topic: 11331 Message: 11331

I am now in the process of retrofitting my 520SE with the transverter connections as found on the S series. However, I am having trouble stripping the small diameter coax (RG-175) I am using to connect the transverter antenna jacks (RCA type). Any suggestions as to best practice, especially for the very fine center conductor?

Thanks,
K7MEI, Brent

11332. Re: [TS-520_820_530_830] Stripping Small Coax

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-07 20:37:09 UTC
From: Edwin
Topic: 11331 Message: 11332

Brent
One way that I do it is to heat the center conductor with my soldering iron. Holding it close but not touching. When it gets soft take your strippers and off it comes. Good luck!
Edwin
N1DFB
----- Original Message -----
From: baumbrent
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 07, 2006 3:09 PM
Subject: [TS-520_820_530_830] Stripping Small Coax

I am now in the process of retrofitting my 520SE with the transverter connections as found on the S series. However, I am having trouble stripping the small diameter coax (RG-175) I am using to connect the transverter antenna jacks (RCA type). Any suggestions as to best practice, especially for the very fine center conductor?

Thanks,
K7MEI, Brent

[Non-text portions of this message have been removed]

11333. Steve...ke1lg...bandswitch

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 02:48:56 UTC
From: Steve
Topic: 11333 Message: 11333

oops-should have read:

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

11334. 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 02:47:37 UTC
From: Steve
Topic: 11334 Message: 11334

Looks like I am going to need a replacement bandswitch for my newly-acquired 830s. Need some direction as to where to start looking.

Many thanks,

Steve in Maine
keel

[Non-text portions of this message have been removed]

11335. Re: [TS-520_820_530_830] Stripping Small Coax

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 03:54:49 UTC
From: John Harp
Topic: 11331 Message: 11335

My trick is to use an exacto knife thats not to sharp and heat it in an open flame. It melts tru the insulation to the center element after you remove the shield. I found it as a technique after using thermal strippers for the exact same application to use for coax. Thermal Strippers work a little better, but I can't afford another pair. This is how I substiute, as it strips the insulation with heat without knicking the conductor elements.

baumbrent <brentbaum5323@...> wrote: I am now in the process of retrofitting my 520SE with the transverter
connections as found on the S series. However, I am having trouble
stripping the small diameter coax (RG-175) I am using to connect the
transverter antenna jacks (RCA type). Any suggestions as to best
practice, especially for the very fine center conductor?

Thanks,
K7MEI, Brent

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11336. Re: [TS-520_820_530_830] 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 07:46:33 UTC
From: n9wb
Topic: 11334 Message: 11336

A bandswitch will be difficult to find. Why do you need a new bandswitch? The reason that I am asking is that most of the common problems with them are repairable. If the connection on the wafers are intermittent and spraying them with De-oxit will not fix them, I will tell you what to try.

Vy 73, Walt N9WB

----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 07, 2006 9:47 PM
Subject: [TS-520_820_530_830] 830 bandswitch...

Looks like I am going to need a replacement bandswitch for my newly-acquired 830s. Need some direction as to where to start looking.

Many thanks,

Steve in Maine
keel

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.14/578 - Release Date: 12/7/06

[Non-text portions of this message have been removed]

11337. Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 12:02:31 UTC
From: n9wb
Topic: 11337 Message: 11337

Somebody mentioned clocks the other day. Check this site out. They make Kenwood clocks. I am not connected with this company.

http://www.clocksrus.org/

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11338. Re: [TS-520_820_530_830] 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 14:43:46 UTC
From: Bill Scurlock
Topic: 11334 Message: 11338

Hi Steve.

A bandswitch problem is not unusual. The first thing to try is using DeOxit on all the contacts and rotating the bandswitch several times to try and clean the contacts. Sometimes this cures the problem. Another common problem with the bandswitch is the way the switch contacts are riveted to the PC boards. Over time these develop poor contact continuity and need to be repaired by either soldering them, or using a conductive liquid to make good contact. Another common issue is the shaft coupling into the final tube compartment develops cracks in the area of the tightning screws and does not firmly control the switch section inside the final tube compartment. There are replacements for these shaft couplers available from K4EAA - see his website.

Many of the problems that show up on these radios relate to intermittant or poor contact connections on all pots, connectors, switches, etc,. and DeOxit is the best thing to try first. Most of the people on this reflector have been down these "roads", and will be glad to try to help you resolve your problem. They certainly have helped me for the past year or so.

To my knowledge, replacement switch wafers for the bandswitch are not available new. If I'm wrong, someone please correct this statement for Steve. Removing and replacing the switch wafers is no simple task, but is certainly feasible if you keep all the parts in their proper order, and know how to desolder and solder connections to a PC board.

Why don't you tell the "group" some of the details of your symptoms, and see what kind of responses you get back. Good luck.

73, Bill, K5GCW
----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 07, 2006 8:47 PM
Subject: [TS-520_820_530_830] 830 bandswitch...

Looks like I am going to need a replacement bandswitch for my newly-acquired 830s. Need some direction as to where to start looking.

Many thanks,

Steve in Maine
keel

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11339. Re: 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 15:30:27 UTC
From: wb4mnk
Topic: 11334 Message: 11339

Hi Steve, Bill and the group, Just though I would let you know that East Coast Transistor carries the bandswitch assembly if it happens to be needed. Anyway they have it listed as S29-7401-05 TS-830S ROTARY WAFFER $49.70. www.kenwoodparts.com/

73, Art
WB4MNK

--- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock" <k5gcw@...> wrote:
>
> Hi Steve.
>
> A bandswitch problem is not unusual. The first thing to try is using DeOxit on all the contacts and rotating the bandswitch several times to try and clean the contacts. Sometimes this cures the problem. Another common problem with the bandswitch is the way the switch contacts are riveted to the PC boards. Over time these develop poor contact continuity and need to be repaired by either soldering them, or using a conductive liquid to make good contact. Another common issue is the shaft coupling into the final tube compartment develops cracks in the area of the tightning screws and does not firmly control the switch section inside the final tube compartment. There are replacements for these shaft couplers available from K4EAA - see his website.
>
> Many of the problems that show up on these radios relate to intermittant or poor contact connections on all pots, connectors, switches, etc,. and DeOxit is the best thing to try first. Most of the people on this reflector have been down these "roads", and will be glad to try to help you resolve your problem. They certainly have helped me for the past year or so.
>
> To my knowledge, replacement switch wafers for the bandswitch are not available new. If I'm wrong, someone please correct this statement for Steve. Removing and replacing the switch wafers is no simple task, but is certainly feasible if you keep all the parts in their proper order, and know how to desolder and solder connections to a PC board.
>
> Why don't you tell the "group" some of the details of your symptoms, and see what kind of responses you get back. Good luck.
>
> 73, Bill, K5GCW
> ----- Original Message -----

> From: Steve
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, December 07, 2006 8:47 PM
> Subject: [TS-520_820_530_830] 830 bandswitch...
>
>
> Looks like I am going to need a replacement bandswitch for my
newly-acquired 830s. Need some direction as to where to start looking.
>
> Many thanks,
>
> Steve in Maine
> keel
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11340. Re: 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 16:45:20 UTC
From: Clif
Topic: 11334 Message: 11340

In the FWIW department, I keep one in stock for those that just can't be fixed. Also for the firstimers removing the bandswitch is not that hard. There is a trap door under the RF unit that allows access to the back of the RF unit without having to remove it which is a pain. Think, remove the screws from the AF board and tilt it over, Viola, trap door.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "wb4mnk" <wb4mnk@...> wrote:
>
> Hi Steve, Bill and the group, Just though I would let you know that
> East Coast Transistor carries the bandswitch assembly if it happens
> to be needed. Anyway they have it listed as S29-7401-05 TS-830S
> ROTARY WAFFER $49.70. www.kenwoodparts.com/
>
> 73, Art
> WB4MNK
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Bill Scurlock"
> <k5gcw@> wrote:
> >
> > Hi Steve.
> >
> > A bandswitch problem is not unusual. The first thing to try is
> using DeOxit on all the contacts and rotating the bandswitch several
> times to try and clean the contacts. Sometimes this cures the
> problem. Another common problem with the bandswitch is the way the
> switch contacts are riveted to the PC boards. Over time these
> develop poor contact continuity and need to be repaired by either
> soldering them, or using a conductive liquid to make good contact.
> Another common issue is the shaft coupling into the final tube
> compartment develops cracks in the area of the tightning screws and
> does not firmly control the switch section inside the final tube
> compartment. There are replacements for these shaft couplers
> available from K4EAA - see his website.
> >
> > Many of the problems that show up on these radios relate to
> intermittant or poor contact connections on all pots, connectors,
> switches, etc,. and DeOxit is the best thing to try first. Most of
> the people on this reflector have been down these "roads", and will
> be glad to try to help you resolve your problem. They certainly have
> helped me for the past year or so.

> >
> > To my knowledge, replacement switch wafers for the bandswitch are
> not available new. If I'm wrong, someone please correct this
> statement for Steve. Removing and replacing the switch wafers is no
> simple task, but is certainly feasible if you keep all the parts in
> their proper order, and know how to desolder and solder connections
> to a PC board.
> >
> > Why don't you tell the "group" some of the details of your
> symptoms, and see what kind of responses you get back. Good luck.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: Steve
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Thursday, December 07, 2006 8:47 PM
> > Subject: [TS-520_820_530_830] 830 bandswitch...
> >
> >
> > Looks like I am going to need a replacement bandswitch for my
> newly-acquired 830s. Need some direction as to where to start looking.
> >
> > Many thanks,
> >
> > Steve in Maine
> > keel
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

11341. Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 13:15:52 UTC
From: n8ie@woh.rr.com
Topic: 11334 Message: 11341

My beloved TS-830 is sick and needs help.

Last fall I tuned her up on 160 LSB and had a nice QSO with a local Ham.
A few days later I made a few CW Q's and a USB Q on 20M, all was fine.

I then went to chase some DX on 80M and found that when I switch to LSB,
the RX and the display goes out.

I opened her up and found no obvious things wrong, like broke wires or
burnt parts.

Any suggestions?

73
Dan, N8IE

11342. RE: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 17:23:02 UTC
From: Ken Gunton
Topic: 11334 Message: 11342

Dan, have you tried cleaning the USB/LSB switch? Did
it only happen on 80 meters? How about the other
bands? Does it still work on USB and CW?

I live in Centerville, so maybe sometime two heads
could be put together?

My TS-830 is going to get the once-over this winter.
I'll be installing the diode mod and cleaning everything
I can get my hands (and de-oxit) on.

I notice that you also have a TS-570. So do I. I still,
however, like the audio from the TS-830 better for some
reason.

Regards,
Ken W8ASA

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n8ie@...
Sent: Friday, December 08, 2006 8:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Help with TS-830

My beloved TS-830 is sick and needs help.

Last fall I tuned her up on 160 LSB and had a nice QSO with a local Ham. A few
days later I made a few CW Q's and a USB Q on 20M, all was fine.

I then went to chase some DX on 80M and found that when I switch to LSB, the RX
and the display goes out.

I opened her up and found no obvious things wrong, like broke wires or burnt
parts.

Any suggestions?

73
Dan, N8IE

Yahoo! Groups Links

11343. CW filter...830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 17:19:07 UTC
From: Steve
Topic: 11343 Message: 11343

Need to buy a cw filter for my 830s, for the CW.N slot. I was thinking around 500Hz...

Should I get it from International Radio?

Which of their filters could someone recommend?

Many thanks,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

11344. Re: [TS-520_820_530_830] Re: 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 20:20:04 UTC
From: Another Old Codger
Topic: 11334 Message: 11344

That's the same Part Number for the TS-530. Amazing, a manufacturer who doesn't confuse the issue.

As an ex-service engineer I found one of the most useful piece of information I had was the list of equivalents between so called competitors, who obviously bought from the same suppliers. Or, who were probably the real owners!

Also interesting was the price charged for identical spares, depending on whether it was for a 'popular' or a 'quality' set.

Ron G8URU

----- Original Message -----
From: "wb4mnk" <wb4mnk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 08, 2006 3:30 PM
Subject: [TS-520_820_530_830] Re: 830 bandswitch...

Hi Steve, Bill and the group, Just though I would let you know that East Coast Transistor carries the bandswitch assembly if it happens to be needed. Anyway they have it listed as S29-7401-05 TS-830S ROTARY WAFFER $49.70. www.kenwoodparts.com/

73, Art
WB4MNK

11345. Use AT-200 Tuner with TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 21:00:28 UTC
From: Gordon
Topic: 11345 Message: 11345

Wondering if there would be a problem using a Kenwood AT-200 Tuner with a TS-830S???

11346. RE: [TS-520_820_530_830] Use AT-200 Tuner with TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 21:21:53 UTC
From: BRENT BAUM
Topic: 11345 Message: 11346

Yes. It doesn't match the unit cosmetically! :) Otherwise it shouldn't be
any different than using any other brand tuner.
Brent
K7MEI

>From: "Gordon" <gordonb@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Use AT-200 Tuner with TS-830S?
>Date: Fri, 08 Dec 2006 21:00:28 -0000
>
>Wondering if there would be a problem using a Kenwood AT-200 Tuner with
>a TS-830S???
>

11347. Re: [TS-520_820_530_830] Use AT-200 Tuner with TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 21:44:45 UTC
From: Gordon Brown
Topic: 11345 Message: 11347

Thanks Brent!
Gordon, KE4WE

----- Original Message -----
From: BRENT BAUM
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 08, 2006 4:21 PM
Subject: RE: [TS-520_820_530_830] Use AT-200 Tuner with TS-830S?

Yes. It doesn't match the unit cosmetically! :) Otherwise it shouldn't be
any different than using any other brand tuner.
Brent
K7MEI

>From: "Gordon" <gordonb@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Use AT-200 Tuner with TS-830S?
>Date: Fri, 08 Dec 2006 21:00:28 -0000
>
>Wondering if there would be a problem using a Kenwood AT-200 Tuner with
>a TS-830S???
>

[Non-text portions of this message have been removed]

11348. Re: Use AT-200 Tuner with TS-830S?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 21:54:00 UTC
From: ve3tmt
Topic: 11345 Message: 11348

> >From: "Gordon" <gordonb@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: [TS-520_820_530_830] Use AT-200 Tuner with TS-830S?
> >Date: Fri, 08 Dec 2006 21:00:28 -0000
> >
> >Wondering if there would be a problem using a Kenwood AT-200 Tuner with
> >a TS-830S???

Aside from not having WARC band coverage it should do nicely.

Max VE3TMT

11349. Re: RE: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 19:58:09 UTC
From: n8ie@woh.rr.com
Topic: 11334 Message: 11349

Hello Ken,
I have not tried using de-oxit yet, will give that a try.
I know some of the contacts are dirty and that would be a great place to start.

LSB is dead on all bands, USB and CW work great.

Cool on Centerville, good to know another local 830 owner. I know another local Ham who has the entire 830 sans the monitor scope. God what a nice looking setup!

My 570 is a work horse. I use it for contesting and so far except for the internal tuner breaking, it's been pretty much bulletproof. But the 830 is a pleasure to listen to and is hands down my favorite rig.

Where locally can I get de-oxit it, or that a generic term?

73
Dan, N8IE

----- Original Message -----
From: Ken Gunton <ken@...>
Date: Friday, December 8, 2006 12:24 pm
Subject: RE: [TS-520_820_530_830] Help with TS-830
To: TS-520_820_530_830@yahoogroups.com

> Dan, have you tried cleaning the USB/LSB switch? Did
> it only happen on 80 meters? How about the other
> bands? Does it still work on USB and CW?
>
> I live in Centerville, so maybe sometime two heads
> could be put together?
>
> My TS-830 is going to get the once-over this winter.
> I'll be installing the diode mod and cleaning everything
> I can get my hands (and de-oxit) on.
>
> I notice that you also have a TS-570. So do I. I still,
> however, like the audio from the TS-830 better for some
> reason.
>
> Regards,
> Ken W8ASA
>
>
>
> -----Original Message-----

> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
> n8ie@...: Friday, December 08, 2006 8:16 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Help with TS-830
>
>
> My beloved TS-830 is sick and needs help.
>
> Last fall I tuned her up on 160 LSB and had a nice QSO with a local
> Ham. A few
> days later I made a few CW Q's and a USB Q on 20M, all was fine.
>
> I then went to chase some DX on 80M and found that when I switch to
> LSB, the RX
> and the display goes out.
>
> I opened her up and found no obvious things wrong, like broke wires
> or burnt
> parts.
>
> Any suggestions?
>
> 73
> Dan, N8IE
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

11350. Re: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 23:30:15 UTC
From: ve3tmt
Topic: 11334 Message: 11350

--- In TS-520_820_530_830@yahoogroups.com, n8ie@... wrote:
>

> LSB is dead on all bands, USB and CW work great.

Dan,

If LSB is dead on all bands but USB and CW are working, I doubt very much it is the bandswitch. It could still probably use a good cleaning anywhere, but I'll bet your problem is with an oscilator somewhere. I also have the complete line except for the scope. Had an SM220 years ago but traded it away. Wish I hadn't now.

Max
VE3TMT

11351. Re: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 23:38:22 UTC
From: N6WK
Topic: 11334 Message: 11351

I am suspecting the Mode Switch .

Gordon
N6WK

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n8ie@... wrote:
> >
>
> > LSB is dead on all bands, USB and CW work great.
>
> Dan,
>
> If LSB is dead on all bands but USB and CW are working, I doubt very
> much it is the bandswitch. It could still probably use a good cleaning
> anywhere, but I'll bet your problem is with an oscilator somewhere.
> I also have the complete line except for the scope. Had an SM220 years
> ago but traded it away. Wish I hadn't now.
>
> Max
> VE3TMT
>
>

[Non-text portions of this message have been removed]

11352. Re: Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 23:45:50 UTC
From: ve3tmt
Topic: 11334 Message: 11352

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> I am suspecting the Mode Switch .
>
> Gordon
> N6WK

And harder to find than a bandswitch. Need a dead 830 for that. When I got mine I noticed the mode switch was loose. Tightening the nut on the shaft on the chasis it snapped right in two. I suspect the ham I got it from knew this and that's why it was loose. I bought some JB Weld and rebuit the shaft and it has worked great ever since.

Max
VE3TMT

11353. Re: [TS-520_820_530_830] Re: Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-08 23:53:15 UTC
From: N6WK
Topic: 11334 Message: 11353

Yes max,
They are hard to find. There was a fellow over on Eham or QTH that
was parting out an 830 a couple of weeks ago.
It sounds like you got lucky in repairing the shaft on yours. Good Job
though!

Gordon

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, N6WK <n6wk@...> wrote:
> >
> > I am suspecting the Mode Switch .
> >
> > Gordon
> > N6WK
>
> And harder to find than a bandswitch. Need a dead 830 for that. When I
> got mine I noticed the mode switch was loose. Tightening the nut on
> the shaft on the chasis it snapped right in two. I suspect the ham I
> got it from knew this and that's why it was loose. I bought some JB
> Weld and rebuit the shaft and it has worked great ever since.
>
> Max
> VE3TMT
>
>

[Non-text portions of this message have been removed]

11354. Re: Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 00:07:07 UTC
From: ve3tmt
Topic: 11334 Message: 11354

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Yes max,
> They are hard to find. There was a fellow over on Eham or QTH that
> was parting out an 830 a couple of weeks ago.
> It sounds like you got lucky in repairing the shaft on yours. Good Job
> though!
>
> Gordon

I would like to get another 830 for parts. The JB Weld goes on like liquid metal and when it hardens you can actually drill through it. I applied some to the shaft on the front and rear of the chasis and it has held with no problems. It bonds any kind of material together. My latest project at hand is trying to get some light behind the meter in the AT230 tuner. I keep the shack dim and it gets hard to see.

Max

11355. RE: RE: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 01:08:07 UTC
From: Ken Gunton
Topic: 11334 Message: 11355

I got mine at the Radio Shack on Wilmington Pike.
I assume the others might have it, too. You
could call the one closer to you.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of n8ie@...
Sent: Friday, December 08, 2006 2:58 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: RE: [TS-520_820_530_830] Help with TS-830

Hello Ken,
I have not tried using de-oxit yet, will give that a try.
I know some of the contacts are dirty and that would be a great place to start.

LSB is dead on all bands, USB and CW work great.

Cool on Centerville, good to know another local 830 owner. I know another local
Ham who has the entire 830 sans the monitor scope. God what a nice looking
setup!

My 570 is a work horse. I use it for contesting and so far except for the
internal tuner breaking, it's been pretty much bulletproof. But the 830 is a
pleasure to listen to and is hands down my favorite rig.

Where locally can I get de-oxit it, or that a generic term?

73
Dan, N8IE

----- Original Message -----
From: Ken Gunton <ken@...>
Date: Friday, December 8, 2006 12:24 pm
Subject: RE: [TS-520_820_530_830] Help with TS-830
To: TS-520_820_530_830@yahoogroups.com

> Dan, have you tried cleaning the USB/LSB switch? Did
> it only happen on 80 meters? How about the other
> bands? Does it still work on USB and CW?
>
> I live in Centerville, so maybe sometime two heads
> could be put together?
>
> My TS-830 is going to get the once-over this winter.
> I'll be installing the diode mod and cleaning everything
> I can get my hands (and de-oxit) on.
>

> I notice that you also have a TS-570. So do I. I still, however, like
> the audio from the TS-830 better for some reason.
>
> Regards,
> Ken W8ASA
>
>
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of
> n8ie@...: Friday, December 08, 2006 8:16 AM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Help with TS-830
>
>
> My beloved TS-830 is sick and needs help.
>
> Last fall I tuned her up on 160 LSB and had a nice QSO with a local
> Ham. A few
> days later I made a few CW Q's and a USB Q on 20M, all was fine.
>
> I then went to chase some DX on 80M and found that when I switch to
> LSB, the RX
> and the display goes out.
>
> I opened her up and found no obvious things wrong, like broke wires
> or burnt
> parts.
>
> Any suggestions?
>
> 73
> Dan, N8IE
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

Yahoo! Groups Links

11356. RE: RE: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 01:10:31 UTC
From: Ken Gunton
Topic: 11334 Message: 11356

I have almost a complete 830 line. I have the SM-220,
the VFO-230, and the SP-230 to go with the
transceiver. It looked really nice, and my XYL even
commented on it, but I recently added the TS570 and
a Power Supply which sit on top of everything and
look a little helter-skelter, so I need to move
things around a little.

11357. Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 02:36:36 UTC
From: Jody Mills
Topic: 11357 Message: 11357

I'm currently working on my morse code for a future upgrade to General class. I've seen some reviews on the 830s and some mighty fine pictures, too. So, what is a reasonable price for an 830s in good-great shape, cosmetically and functionally? I hear they can go for upwards of $400 or so. Is that kinda high? Or are they enough of a collector's item that they can command higher prices?

Jody KE7JII

11358. Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 02:47:03 UTC
From: N6WK
Topic: 11357 Message: 11358

Jody,
I would expect to pay Over $400.00 for a nice condition TS-830 that
has been cleaned and Aligned with full output.
There are bargins out there however.
I might suggest you use caution if buying one off ebay.
One of the favorite lines on ebay is " I picked this up at an estate
sale and have NO way of testing it"
To me that says "DANGER>>>DANGER>> It probably doesn't work !! "

Gordon

Jody Mills wrote:

> I'm currently working on my morse code for a future upgrade to General
> class. I've seen some reviews on the 830s and some mighty fine
> pictures, too. So, what is a reasonable price for an 830s in good-
> great shape, cosmetically and functionally? I hear they can go for
> upwards of $400 or so. Is that kinda high? Or are they enough of a
> collector's item that they can command higher prices?
>
> Jody KE7JII
>
>

[Non-text portions of this message have been removed]

11359. Re: Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 02:52:00 UTC
From: ve3tmt
Topic: 11357 Message: 11359

--- In TS-520_820_530_830@yahoogroups.com, "Jody Mills"
<jody.mills@...> wrote:
>
> I'm currently working on my morse code for a future upgrade to General
> class. I've seen some reviews on the 830s and some mighty fine
> pictures, too. So, what is a reasonable price for an 830s in good-
> great shape, cosmetically and functionally? I hear they can go for
> upwards of $400 or so. Is that kinda high? Or are they enough of a
> collector's item that they can command higher prices?
>
> Jody KE7JII
>

Jody,

I've seen them go anywhere from $300-650 depending on condition, extra filters in the radio etc. Even though the 830's are 25+ years old they are still highly sought after transceivers. Very few of the modern DSP rigs can come close to the receiver specs on the 830. And the cleanliness of the transmit audio is well known. Truly one of the better radios to be marketed. With that being said, there are some troublesome spots as well. Probably the most common is intermittent loss of transmit or receive on some or all bands. This is due to the contacts on the bandswitch failing. It can be fixed, but best to stay away unless you are comfortable with that kind of repair. Another issue is the shaft couplings cracking, but brass replacements are available. Aside from these issues and the general upkeep of components that are this old, the 830 is a great radio and I'm sure they will hold their own for years to come. I have the 830 with the matching tuner, speaker and digital VFO and enjoy each and everytime I operate. To answer your question about being collectors items, to those that own them the answer is YES!

Max
VE3TMT

11360. Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 03:00:07 UTC
From: Edwin
Topic: 11357 Message: 11360

Jody
5WPM is all you need, concentrate on the rest of it. And yes, $325 to $400 is the price range for a TS-830S.
Edwin
N1DFB

----- Original Message -----
From: Jody Mills
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 08, 2006 9:36 PM
Subject: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

I'm currently working on my morse code for a future upgrade to General class. I've seen some reviews on the 830s and some mighty fine pictures, too. So, what is a reasonable price for an 830s in good-great shape, cosmetically and functionally? I hear they can go for upwards of $400 or so. Is that kinda high? Or are they enough of a collector's item that they can command higher prices?

Jody KE7JII

[Non-text portions of this message have been removed]

11361. Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 03:31:44 UTC
From: G. Sturos
Topic: 11357 Message: 11361

I paid $225 for mine at Dayton several years ago from the original owner. I've seen them advertised for anywhere fro $300 to $6-700. I learned a few years ago that mine is a gold edition, which some folks seen to think they comand a higher price.

Gordy/w8idb

Jody Mills <jody.mills@...> wrote:
I'm currently working on my morse code for a future upgrade to General class. I've seen some reviews on the 830s and some mighty fine pictures, too. So, what is a reasonable price for an 830s in good-great shape, cosmetically and functionally? I hear they can go for upwards of $400 or so. Is that kinda high? Or are they enough of a collector's item that they can command higher prices?

Jody KE7JII

Why the heck should I have to press "1" for English.

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11362. TS-830S For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 07:37:18 UTC
From: Rick KC0HH
Topic: 10726 Message: 11362

Hi All,

I have a very nice 830S for sale. Completely gone through and aligned. Replaced the stock band switch coupler with a brass one from K4EAA and have done the diode upgrades. It is one of the ones I used to run Spectrum Analyzer plots when we were doing the Shottky checks. No issues. In fact it looks new. Has the newer YK-88S1 2.7khz SSB filter. E-mail me direct if interested.
$400.00 plus shipping

73' Rick KC0HH
Lamar, Colorado

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11363. Looking Want to Buy.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 07:49:31 UTC
From: Kevin & Natalia
Topic: 11363 Message: 11363

Hi,

I know I have not made the full month yet, but hoping the mediators will allow this through.

I am looking for the following two items, preferably from New Zealand or Australia (exchange rates)

1. VFO-230 - External VFO with memories.

2. ATU-230 - Antenna Tuner.

Would like to get the speaker as well, if there is one around, but not a urgent purchase.

If there are any available, please direct information, and price wanted directly, not through the group.

Thanks

Kevin, ZL1KFM.

Get Skype and call me for free.

[Non-text portions of this message have been removed]

11364. RE: TS 830 bandswitch source Thank You

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 14:05:46 UTC
From: n9wb
Topic: 11364 Message: 11364

Thank You! This is VERY useful information. I would solder the rivits on the new assembly before installation, however.
Vy 73, Walt N9WB

----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 08, 2006 10:30 AM
Subject: [TS-520_820_530_830] Re: 830 bandswitch...

Hi Steve, Bill and the group, Just though I would let you know that East Coast Transistor carries the bandswitch assembly if it happens to be needed. Anyway they have it listed as S29-7401-05 TS-830S ROTARY WAFFER $49.70. www.kenwoodparts.com/

73, Art
WB4MNK

11365. TS520SE

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 15:19:51 UTC
From: Graham Ridgeway
Topic: 9304 Message: 11365

The item which I offered for sale a short while ago is now sold.

73 Graham M5AAV

11366. Re: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 15:33:21 UTC
From: Bill Scurlock
Topic: 11334 Message: 11366

Dan.

Gordon is probably correct about the Mode Switch. Switch section S18-1 controls 9v going to the PLL unit. In USB, the 9v is supposed to go to Connector 8 Pin 5 to activate the USB oscillator. Something is probably wrong somewhere in this circuit. It could be the switch, or in the wiring, or in the connector going to the PLL unit.

If you have the test equipment and access to schematic information, Service Manual, etc., check the voltage from Connector 8 Pin 4 on the PLL unit when the Mode Switch is in LSB position, and then switch to USB and check Connector 8 Pin 5 to see if the same 9v signal is making it to the PLL unit for the USB oscillator.

A frequency counter connected to TP3 on the IF unit can also check to see if the 8831.5 KHz signal is present when in USB mode. In LSB, this frequency should be 8828.5 KHz.

Good Hunting.

73, Bill, K5GCW
----- Original Message -----
From: N6WK
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 08, 2006 5:38 PM
Subject: Re: [TS-520_820_530_830] Help with TS-830

I am suspecting the Mode Switch .

Gordon
N6WK

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n8ie@... wrote:
> >
>
> > LSB is dead on all bands, USB and CW work great.
>
> Dan,
>
> If LSB is dead on all bands but USB and CW are working, I doubt very
> much it is the bandswitch. It could still probably use a good cleaning
> anywhere, but I'll bet your problem is with an oscilator somewhere.
> I also have the complete line except for the scope. Had an SM220 years
> ago but traded it away. Wish I hadn't now.
>
> Max
> VE3TMT

>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11367. Fw: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 15:47:36 UTC
From: Bill Scurlock
Topic: 11367 Message: 11367

Dan --- Sorry -- I messed up the sideband.

But, I think the information I gave covers the LSB terminals and oscillator frequencies also, so should be valid.

Sorry about that.

73, Bill, K5GCW
----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 09, 2006 9:33 AM
Subject: Re: [TS-520_820_530_830] Help with TS-830

Dan.

Gordon is probably correct about the Mode Switch. Switch section S18-1 controls 9v going to the PLL unit. In USB, the 9v is supposed to go to Connector 8 Pin 5 to activate the USB oscillator. Something is probably wrong somewhere in this circuit. It could be the switch, or in the wiring, or in the connector going to the PLL unit.

If you have the test equipment and access to schematic information, Service Manual, etc., check the voltage from Connector 8 Pin 4 on the PLL unit when the Mode Switch is in LSB position, and then switch to USB and check Connector 8 Pin 5 to see if the same 9v signal is making it to the PLL unit for the USB oscillator.

A frequency counter connected to TP3 on the IF unit can also check to see if the 8831.5 KHz signal is present when in USB mode. In LSB, this frequency should be 8828.5 KHz.

Good Hunting.

73, Bill, K5GCW
----- Original Message -----
From: N6WK
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 08, 2006 5:38 PM
Subject: Re: [TS-520_820_530_830] Help with TS-830

I am suspecting the Mode Switch .

Gordon
N6WK

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, n8ie@... wrote:
> >

>
> > LSB is dead on all bands, USB and CW work great.
>
> Dan,
>
> If LSB is dead on all bands but USB and CW are working, I doubt very
> much it is the bandswitch. It could still probably use a good cleaning
> anywhere, but I'll bet your problem is with an oscilator somewhere.
> I also have the complete line except for the scope. Had an SM220 years
> ago but traded it away. Wish I hadn't now.
>
> Max
> VE3TMT
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11368. My "new" TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 14:23:33 UTC
From: Tim Boppre
Topic: 11368 Message: 11368

Hello to the group:

My "new" TS-830S arrived yesterday. It is GREAT!!! I've been dreaming of one of these radios since I was a kid and finally decided to get one. Got it on the air late yesterday afternoon and worked a couple of people on 20M phone. Brings back a lot of memories of listening to that wonderful Kenwood audio as a kid. It's also wonderful to have a radio with knobs!!! The Kenwood folks got the interfaces of their rigs just right. It is a pleasure to operate.

So far all is well with only one slight problem. It has a slight frequency drift of about 100-200Hz. Looking in the TS-830 Survival Guide it appears to be related to the FIX switch as when I wiggle the switch the freq. display bobbles a bit. I'll get after that today with some De-oxit and see if that resolves the problem.

I've been reading this list for a while and joined the group several weeks ago. I've been very impressed with the quality of questions and most important the quality of the responses. I look forward to learning a lot more about these radios by reading this list and finally having one to operate.

73,

Tim
KA9EAK

[Non-text portions of this message have been removed]

11369. Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 17:20:09 UTC
From: John Harp
Topic: 11357 Message: 11369

Look into thunderchicken_01. The posting went up recently and it may still be available. I think it went for 325 when I saw the posting. That's a good price for an 830.

Ones in good shape generally bring 350 to 450 dollars (US). I've seen them higher, but the condition generally is the reason they will sell at that price.

Sometimes someone doesn't know what they have and will sell it for cheaper. Generally you watch for a while and compare you'll find them a little cheaper. That mode sometimes takes a while.

Jody Mills <jody.mills@...> wrote:
I'm currently working on my morse code for a future upgrade to General class. I've seen some reviews on the 830s and some mighty fine pictures, too. So, what is a reasonable price for an 830s in good-great shape, cosmetically and functionally? I hear they can go for upwards of $400 or so. Is that kinda high? Or are they enough of a collector's item that they can command higher prices?

Jody KE7JII

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11370. Re: [TS-520_820_530_830] Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 17:30:34 UTC
From: John Harp
Topic: 11337 Message: 11370

Hi Walt

It was me, John Harp KA3DPW. I posted for an HC-10 clock upon December 4th. I was looking for the matching clock to the TS Line.

I originally saw it in the TS-830 manual as accessory. Decided to post by the rules newly eatablished to the group. This is an item not normally seen easily. So I posted in case someone just happens to see one.

It's an item I can afford at this time for the 830 outlay that should require little effort to get going an place in the station.

I build one piece at a time. If you or someone finds one I got the cash and some help getting it would be appreciated. Thanks. John.

n9wb <n9wb@...> wrote:

Somebody mentioned clocks the other day. Check this site out. They make Kenwood clocks. I am not connected with this company.

http://www.clocksrus.org/

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11371. Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 17:36:44 UTC
From: n9wb
Topic: 11357 Message: 11371

There are Amateurs who restore these rigs and then sell them. They have a good established reputation. If problems develop, they will stand behind the products that they restore and sell. It is worth a extra couple of hundred dollars to purchase from them and be assured that you will not be stuck with a pig in a poke that will cost you $300.00 and hassles to get it operating.

If you are capable of restoring basket cases, then buy from sources such as E-bay, but pay only parts prices. If you want a rig that is ready to go, expect to pay more and buy from a reputable restorer, and pay a bit more.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 09, 2006 12:20 PM
Subject: Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Look into thunderchicken_01. The posting went up recently and it may still be available. I think it went for 325 when I saw the posting. That's a good price for an 830.

Ones in good shape generally bring 350 to 450 dollars (US). I've seen them higher, but the condition generally is the reason they will sell at that price.

Sometimes someone doesn't know what they have and will sell it for cheaper. Generally you watch for a while and compare you'll find them a little cheaper. That mode sometimes takes a while.

Jody Mills <Jody.mills@...> wrote:
I'm currently working on my morse code for a future upgrade to General class. I've seen some reviews on the 830s and some mighty fine pictures, too. So, what is a reasonable price for an 830s in good-great shape, cosmetically and functionally? I hear they can go for upwards of $400 or so. Is that kinda high? Or are they enough of a collector's item that they can command higher prices?

Jody KE7JII

11372. Re: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 17:44:29 UTC
From: John Harp
Topic: 11334 Message: 11372

Dan,

First question, since I'm not familiar with your radio. When have you cleaned the radio last?

Second, go in and clean the mode switch with some kind of tuner cleaner or contact cleaner that leaves no residue. Spray into the switsh and rotate the contacts if you can.

Third, look at the wires attached to the switch at the joints. Look at them with a magnifying glass to see the joints are good. Then follow each of them back to where they came from. Check to make sure they are connected real good and solid. If they are a connector pin then pull the connector from the board and spray the connections and put them back on the exact same way they came off. Do it several times to remove anything still on the contact.

I've gone thru this process before and eliminated problems in the past on my TS-830's. Some times cleaning a ground by backing it out cleaning it and retighening it will resolve the issue.

Those front face panels collect hair and lint in there and you can't see it easily sometimes. Remember these radios have been around for years. They collect deposits in thier contacts over time.

Try this first to eliminate it, see if it helps. It may eliminate the issue cheaply and effectively. If not then you've elimeinated the obvious first.

n8ie@... wrote:
My beloved TS-830 is sick and needs help.

Last fall I tuned her up on 160 LSB and had a nice QSO with a local Ham.
A few days later I made a few CW Q's and a USB Q on 20M, all was fine.

I then went to chase some DX on 80M and found that when I switch to LSB,
the RX and the display goes out.

I opened her up and found no obvious things wrong, like broke wires or
burnt parts.

Any suggestions?

73
Dan, N8IE

Access over 1 million songs - Yahoo! Music Unlimited.

[Non-text portions of this message have been removed]

11373. Re: [TS-520_820_530_830] Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 17:51:24 UTC
From: n9wb
Topic: 11337 Message: 11373

I am sure that you want an original Kenwood clock and that is cool. I just wanted to make the members aware of this person's effort at custom clocks.
Vy 73, Walt N9WB
----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 09, 2006 12:30 PM
Subject: Re: [TS-520_820_530_830] Clocks

Hi Walt

It was me, John Harp KA3DPW. I posted for an HC-10 clock upon December 4th. I was looking for the matching clock to the TS Line.

I originally saw it in the TS-830 manual as accessory. Decided to post by the rules newly eatablished to the group. This is an item not normally seen easily. So I posted in case someone just happens to see one.

It's an item I can afford at this time for the 830 outlay that should require little effort to get going an place in the station.

I build one piece at a time. If you or someone finds one I got the cash and some help getting it would be appreciated. Thanks. John.

n9wb <n9wb@...> wrote:

Somebody mentioned clocks the other day. Check this site out. They make Kenwood clocks. I am not connected with this company.

http://www.clocksrus.org/

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/580 - Release Date: 12/8/06

[Non-text portions of this message have been removed]

11374. Re: [TS-520_820_530_830] 830 bandswitch...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 17:53:57 UTC
From: John Harp
Topic: 11334 Message: 11374

Yes and take a look at K4EAA's website about cleaning those band-switches. Very good insight from a repair person who does them alot. He shows good pictures and introduces the tools and way he goes about restoring them.

Bill Scurlock <k5gcw@...> wrote: Hi Steve.

A bandswitch problem is not unusual. The first thing to try is using DeOxit on all the contacts and rotating the bandswitch several times to try and clean the contacts. Sometimes this cures the problem. Another common problem with the bandswitch is the way the switch contacts are riveted to the PC boards. Over time these develop poor contact continuity and need to be repaired by either soldering them, or using a conductive liquid to make good contact. Another common issue is the shaft coupling into the final tube compartment develops cracks in the area of the tightning screws and does not firmly control the switch section inside the final tube compartment. There are replacements for these shaft couplers available from K4EAA - see his website.

Many of the problems that show up on these radios relate to intermittant or poor contact connections on all pots, connectors, switches, etc,. and DeOxit is the best thing to try first. Most of the people on this reflector have been down these "roads", and will be glad to try to help you resolve your problem. They certainly have helped me for the past year or so.

To my knowledge, replacement switch wafers for the bandswitch are not available new. If I'm wrong, someone please correct this statement for Steve. Removing and replacing the switch wafers is no simple task, but is certainly feasible if you keep all the parts in their proper order, and know how to desolder and solder connections to a PC board.

Why don't you tell the "group" some of the details of your symptoms, and see what kind of responses you get back. Good luck.

73, Bill, K5GCW
----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 07, 2006 8:47 PM
Subject: [TS-520_820_530_830] 830 bandswitch...

Looks like I am going to need a replacement bandswitch for my newly-acquired 830s. Need some direction as to where to start looking.

Many thanks,

Steve in Maine
keel

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11375. Re: [TS-520_820_530_830] CW filter...830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 18:01:44 UTC
From: John Harp
Topic: 11343 Message: 11375

First look at the owners manual for Kenwood TS-830S. There is an overview of what the combinations of filters will do for you as well the drawbacks.

I can't say yay or nay about International as I have not dealt with them for a filter. But the information I pointed out in the manual you may want to consider as it is pertinent to the performance of your 830.

Steve <sbhanson@...> wrote:
Need to buy a cw filter for my 830s, for the CW.N slot. I was thinking around 500Hz...

Should I get it from International Radio?

Which of their filters could someone recommend?

Many thanks,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.

[Non-text portions of this message have been removed]

11376. Re: [TS-520_820_530_830] Reasonable price for 830s in good or great shape?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 20:39:16 UTC
From: Peter A Markavage
Topic: 11357 Message: 11376

I agree with Walt on this. Buy from someone who restores these rigs at least from a ham who has the rig and has upgraded to something newer and is looking for a home for his 830. If buying from a thunderchicken, or a tree-topper1278, etc., assume that you're probably buying a parts rig or a rig that probably was beat into the ground.

Pete, wa2cwa

On Sat, 9 Dec 2006 12:36:44 -0500 "n9wb" <n9wb@...> writes:
There are Amateurs who restore these rigs and then sell them. They have a good established reputation. If problems develop, they will stand behind the
products that they restore and sell. It is worth a extra couple of hundred
dollars to purchase from them and be assured that you will not be stuck with
a pig in a poke that will cost you $300.00 and hassles to get it operating.

If you are capable of restoring basket cases, then buy from sources such as
E-bay, but pay only parts prices. If you want a rig that is ready to go, expect to pay more and buy from a reputable restorer, and pay a bit more.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 09, 2006 12:20 PM
Subject: Re: [TS-520_820_530_830] Reasonable price for 830s in good or great
shape?

Look into thunderchicken_01. The posting went up recently and it may still
be available. I think it went for 325 when I saw the posting. That's a good
price for an 830.

Ones in good shape generally bring 350 to 450 dollars (US). I've seen them
higher, but the condition generally is the reason they will sell at that price.

Sometimes someone doesn't know what they have and will sell it for cheaper.
Generally you watch for a while and compare you'll find them a little cheaper. That mode sometimes takes a while.

Jody Mills <Jody.mills@...> wrote:
I'm currently working on my morse code for a future upgrade to General class. I've seen some reviews on the 830s and some mighty fine pictures, too. So, what is a reasonable price for an 830s in good-great shape, cosmetically and functionally? I hear they can go for upwards of $400 or so. Is that kinda high? Or are they enough of a collector's item that they can command higher prices?

Jody KE7JII

[Non-text portions of this message have been removed]

11377. Re: [TS-520_820_530_830] 6146B vs original S2001A

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 20:39:28 UTC
From: Dave and Loraine
Topic: 11377 Message: 11377

Hi Art and all,
Just for reference:
I have a TS-820S un-modified with the original tubes.
On 80m, I see about 120W into a dummy load on my cheap power meter. SWR 1:1.
I did the power calculation P = Veff squared / dummy load resistance which resulted in 125w.
Vpeak = 125V. Veff = 88V. Dummy load = 62 ohms.
RF voltage was measured on a 'scope.
On the rig's meter, HT was 860V rx and 750V tx. Tx current was 240mA.
Either my calc is wrong or the original tubes are tough!
Good luck with the replacements.
73 Dave F4EYK

11378. Re: [TS-520_820_530_830] Help with TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 21:08:19 UTC
From: Another Old Codger
Topic: 11334 Message: 11378

I've put this on before, check all the screws holding the PCBs, they work loose and cause bad grounding. In fact check any screw that looks as if it could ground something. This was a tip given me by a Kenwood Engineer.

Ron G8URU
----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 09, 2006 5:44 PM
Subject: Re: [TS-520_820_530_830] Help with TS-830

Dan,

First question, since I'm not familiar with your radio. When have you cleaned the radio last?

Second, go in and clean the mode switch with some kind of tuner cleaner or contact cleaner that leaves no residue. Spray into the switsh and rotate the contacts if you can.

Third, look at the wires attached to the switch at the joints. Look at them with a magnifying glass to see the joints are good. Then follow each of them back to where they came from. Check to make sure they are connected real good and solid. If they are a connector pin then pull the connector from the board and spray the connections and put them back on the exact same way they came off. Do it several times to remove anything still on the contact.

I've gone thru this process before and eliminated problems in the past on my TS-830's. Some times cleaning a ground by backing it out cleaning it and retighening it will resolve the issue.

Those front face panels collect hair and lint in there and you can't see it easily sometimes. Remember these radios have been around for years. They collect deposits in thier contacts over time.

Try this first to eliminate it, see if it helps. It may eliminate the issue cheaply and effectively. If not then you've elimeinated the obvious first.

11379. 2X Capacitors Wanted/No Power Output - Fixed "THANKYOU!"

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-09 22:38:30 UTC
From: Kevin & Natalia
Topic: 11379 Message: 11379

To Everyone on the Group.

THANKYOU!

Please take it from me, that your help was very grateful.
I have just finished fitting the new filter caps in my TS-830S. Checked everything that had been advised to check and replace as required, and applied power.
Stood back just in case.
I now have the required voltage from the capacitors, and the HV meter is reading now too.
I was only able to obtain 100uF/450v capacitors at the time, but from Walts info I have sourced 150uF/500v capacitors which I will purchase, and replace the current replacements out.

I have output power reading on my Kenwood SW-200 meter, which is what I wanted.

My first attempt at working/fixing a valve radio, and it is very satisfying to repair it myself (with help), without having to send it in for repair.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 07, 2006 11:24 PM
Subject: Re: [TS-520_820_530_830] 2X Capacitors Wanted - Update Information.

Kevin:

Yes, going to higher uf will improve the filtering, and higher voltage will
make it more rugged.

Now I don't recommend increasing the uf rating to an outrageous amount such
as 400 uf because you can run into issues of increased in rush current
surges wiping the diodes, the fuse, or the transformer when the rig is
turned on.

But 150 uf at 500v will make a VERY suitable replacement choice.

While you are ordering parts, You may want to consider some other checks and
replacements. While this is not absolutely necessary, the components I am
mentioning below often weaken with age.

On the rectifier board:

You may wish to replace D-1 through D-11 on the rectifier board. Any general silicon diode rated at 1000 V and 1 amp will do. Some of the ones used on the lower voltage areas are now lower than 1000 V but this was done for cost. The 1000 V 1 amp types will do fine for these replacements.

I found some 1 amp 2000 V diodes that had the same leads as the originals and used them in my TS-820. These are even better. While this will not increase performance, it reduces the chance of failure. I am recommending the diodes be replaced because of age.

Also check R- 1,2,3 and 4. If you replace them use original ohms value and original 1/2 watt.

Also check R-8 as well as R-11, 12, and 13 with an ohm meter and replace them if they are more than 15 % off..

Observe the other resistors on this board and replace any that are bubbled, cracked or look fried.

On the final unit board, there are 4 resistors, R3, R4, R5, and R6. These are 20 ohm each. They are 1/2 watt. Observe these for cracks or serious bubbles. With an ohm meter, check across any one of them. This will check the total parallel value of them. This can be done in circuit. It should read very close to 5 ohms, the total value of these parallel resistors. If they look bad or check more than 6 ohms, replace them. How close to 5 ohms you expect to see depends on the accuracy of the ohm meter. Use the original 1/2 watt. Do not increase the wattage value of these. These act as a fuse if a final shorts and prevents more extensive damage.

Again, this is not mandatory, I am sure the new capacitors will solve your immediate problem. However, these are things I check when I am working on one.

I am assuming that this is a TS-830. If not, tell me which rig and I will change the above instructions.

Vy 73, Walt N9WB

.

[Non-text portions of this message have been removed]

11380. Thanks to group...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-10 14:12:29 UTC
From: Steve
Topic: 11380 Message: 11380

I would like to thank everyone who responded to my 830s issues, mainly the bandswitch problem. This group is a great resource, and makes it a pleasure to be involved both with Amateur Radio and Kenwood 'hybrids'.

Thanks again,

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

11381. TS820S intermittent display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-10 21:54:14 UTC
From: Jack
Topic: 11381 Message: 11381

Hi all. Hope you can point me in the right direction. My TS820S has an intermittant problem where the display will go blank for a second or so and the audio will drop out. The display returns to normal and the audio returns normally depending on the agc setting. Prior to this, my display would drop one digit (usually the khz (100's)) and return. I'm thinking I need to remove the display boards and clean all the contacts but what might be causing the entire display and audio to drop?

Thanks - Jack KF4YIO

11382. Re: TS820S intermittent display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-10 22:47:56 UTC
From: ve3tmt
Topic: 11381 Message: 11382

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>
> Hi all. Hope you can point me in the right direction. My TS820S has
> an intermittant problem where the display will go blank for a second
> or so and the audio will drop out. The display returns to normal and
> the audio returns normally depending on the agc setting. Prior to
> this, my display would drop one digit (usually the khz (100's)) and
> return. I'm thinking I need to remove the display boards and clean
> all the contacts but what might be causing the entire display and
> audio to drop?
>
> Thanks - Jack KF4YIO
>

Jack,

First thing I would do is remove. clean and reseat ALL connectors. I got an 820 once at a silent auction from our local club for $76 CDN. I was told there was no receive audio and the display didn't work. After removing all connectors, applying contact cleaner and tightening all screws the unit worked like new. I traded it for the Cushcraft R7 that now towers over my house.

Max
VE3TMT

11383. Repairer in Brisbane, Australia

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 02:01:57 UTC
From: Grant McDuling
Topic: 11383 Message: 11383

G'day,
My trust TS-520 SE is in need of repair. Does anyone know if there is anyone in the Brisbane area who specializes in these great rigs?

73s

Grant VK4JAZ

11384. Re: TS820S intermittent display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 03:04:54 UTC
From: w5rkl
Topic: 11381 Message: 11384

I believe the problem is dirty contacts in the PLL and CAR assemblies that is causing the receiver to appear dead. The digital display going blank is most likely caused by dirty contacts on the top and bottom display assembly.

The audio going dead is a sign of failure in one of the following:

IF Assembly
PLL Assemblies
CAR Assemblies
RF AMP Assembly

Clean all the plugs, pins and internal pins on the CAR and PLL assemblies plus all plugs and pins on the IF and RF board. Of course don't forget to clean the digital display plugs (top and bottom) and relay too.

I chased down a problem to a dirty pin inside one of the multi connection plugs. Once I found it, cleaned it, made sure it was making good contact with the board pin, the 820 worked like a champ.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@> wrote:
> >
> > Hi all. Hope you can point me in the right direction. My TS820S has
> > an intermittant problem where the display will go blank for a second
> > or so and the audio will drop out. The display returns to normal and
> > the audio returns normally depending on the agc setting. Prior to
> > this, my display would drop one digit (usually the khz (100's)) and
> > return. I'm thinking I need to remove the display boards and clean
> > all the contacts but what might be causing the entire display and
> > audio to drop?
> >
> > Thanks - Jack KF4YIO
> >
>
> Jack,
>
> First thing I would do is remove. clean and reseat ALL connectors. I
> got an 820 once at a silent auction from our local club for $76 CDN. I
> was told there was no receive audio and the display didn't work. After

> removing all connectors, applying contact cleaner and tightening all
> screws the unit worked like new. I traded it for the Cushcraft R7 that
> now towers over my house.
>
> Max
> VE3TMT
>

11385. Re: [TS-520_820_530_830] Repairer in Brisbane, Australia

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 04:56:32 UTC
From: jsloss
Topic: 11383 Message: 11385

Grant If you could pass along what your 520SE is doing or not doing correctly you may find members of this group to help you diagnose and perhaps correct the problem. Good luck.

Joe k7mks
----- Original Message -----
From: Grant McDuling
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 10, 2006 6:01 PM
Subject: [TS-520_820_530_830] Repairer in Brisbane, Australia

G'day,
My trust TS-520 SE is in need of repair. Does anyone know if there is
anyone in the Brisbane area who specializes in these great rigs?

73s

Grant VK4JAZ

[Non-text portions of this message have been removed]

11386. Re: TS820S intermittent display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 05:23:30 UTC
From: mhherf
Topic: 11381 Message: 11386

--- In TS-520_820_530_830@yahoogroups.com, "Jack" <kf4yio@...> wrote:
>Hi Jack,

In addition to the other, good suggestions, you may have to check and clean the VFO tuning capacitor shaft at the rear of the VFO. It can be
the cause of intermittant display/audio problems. I have used De-Oxit to clean and restore the VFO capacitor to reliable operation. There is
a PDF available on Gordon's web site http://www.n6wk.com/kenwood/TS-820-
VFO--servicing.pdf)that shows how to remove the VFO.

As for display problems, another area to service is the counter unit. First, clean the connectors at the top and bottom of the counter unit,
as well as the connector to the DG-1. Then,remove the counter unit from the '820, open the housing and separate the two circuit boards. Clean the pins on the Molex connectors with De-Oxit. Also, clean the foil area under the screw heads.

73,
Mitch
VE2BAB

> Hi all. Hope you can point me in the right direction. My TS820S has
> an intermittant problem where the display will go blank for a second
> or so and the audio will drop out. The display returns to normal and
> the audio returns normally depending on the agc setting. Prior to
> this, my display would drop one digit (usually the khz (100's)) and
> return. I'm thinking I need to remove the display boards and clean
> all the contacts but what might be causing the entire display and
> audio to drop?
>
> Thanks - Jack KF4YIO
>

11387. Re: [TS-520_820_530_830] TS820S intermittent display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 06:22:51 UTC
From: n9wb
Topic: 11381 Message: 11387

I would check the 9V regulator. this is on the AF/AVR board. VR-4 often becomes intermittent causing problems such as this.

Locate the plug AF1 on the AF/AVR board. Find the point on this plug labeled 9. Place a DC volt meter probe on the 9v regulator, the minus wire on chassis ground. Use an insulated tool and wiggle VR-4 and see if the voltage holds steady. VR-4 should be set for exactly 9VDC at 9.

If this does not appear the be the problem, monitor the voltage at 14 while the rig acts up. If it changes, look for intermittants in the 14 V source.

If VR-4 is bad, it can either be replaced with a 500 ohm pot like the original, or replaced with two fixed resistors that equal around 500 ohm and place the voltage exactly at 9V. In one case, I used a 470 ohm and a 120 ohm resistor as a substitute for the pot. When finished, the voltage MUST be exactly 9V.

Be sure all of the screws are tight on this and other boards.

Vy 73, Walt N9WB

----- Original Message -----
From: Jack
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 10, 2006 4:54 PM
Subject: [TS-520_820_530_830] TS820S intermittent display problem

Hi all. Hope you can point me in the right direction. My TS820S has
an intermittant problem where the display will go blank for a second
or so and the audio will drop out. The display returns to normal and
the audio returns normally depending on the agc setting. Prior to
this, my display would drop one digit (usually the khz (100's)) and
return. I'm thinking I need to remove the display boards and clean
all the contacts but what might be causing the entire display and
audio to drop?

Thanks - Jack KF4YIO

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

11388. Re: CW filter...830s

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 08:01:14 UTC
From: Phil Hartwell
Topic: 11343 Message: 11388

Hi Steve,

If you are a real serious CW operator you will find the TS-830S fitted with two 500Hz filters a dream. This filter combination allows full use of the VBT function which allows you to narrow the passband down to 150Hz and in combination with the I/F shift is a really powerful tool. Any other filter combination does not allow the VBT to work effectively.
The original 500Hz Kenwood filters are YK-88C for 8.83MHz and YG-455C for 455kHz. Depending on their availability, you may consider obtaining the Inrad equivalents, (both 400Hz at -6db). i.e. Inrad #98 for 8.83MHz, shape factor 2.0 and #99 for 455kHz, shape factor 1.8, priced at $98 & $155 respectively.
The original Kenwood filters are solder in types as is the Inrad #99, but the #98 is a wire in type (nothing too challenging). The only other thing to do is select the appropriate filter set with the wire link, adjacent to the filters, in this case to CW4 position
I fitted the Kenwood filters when I bought my 830 in '82 and cannot complain about their performance. I have fitted many Inrad filters to my other rigs and they are excellent performers and are generally considered to be superior to the original filters of many rig manufacturers.
I believe Inrad are closing down at the end of this week, pending change of ownership, and will re-open in the new year.

Good luck with the 830, Best 73, Phil, VK6ABL.

Send instant messages to your online friends http://au.messenger.yahoo.com

[Non-text portions of this message have been removed]

11389. TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 18:08:30 UTC
From: Kevin & Natalia
Topic: 11389 Message: 11389

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

11390. Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 18:34:08 UTC
From: Bob
Topic: 11389 Message: 11390

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
<sparcnz@...> wrote:
>I feel ur safe to go for another 30 years!!!! BOB N3OO
> Hi All,
>
> Sorry to be here again, on the same area, the HV line.
>
> I had got my radio back up and running after replacing the Filter
capacitors as advised by this group. This worked out, and the radio is
back operating.
> I have however another concern. The HV line, from the manual, and by
this group say the HV line should be 800v. Mine is putting out 915v.
It is working all right, get it to load good, and I get good power
out, by the external meter reading.
> Am I looking too much into this? Or is this too high, and I have
another problem? I can't see any control to lower this voltage.
>
> Again thanks in advance.
>
> Kevin, ZL1KFM
>
> Get Skype and call me for free.
>
>
>
> [Non-text portions of this message have been removed]
>

11391. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 18:29:19 UTC
From: Graham Ridgeway
Topic: 11389 Message: 11391

On Tue, 12 Dec 2006 07:08:30 +1300, "Kevin & Natalia"
<sparcnz@...> wrote:

>Hi All,
>
>Sorry to be here again, on the same area, the HV line.
>
>I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
>I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
>Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.
>

I suppose the question has to be....is this the 'real' HT, measured
with a Multimeter with the covers off, or the 'indicated HT, as per
the Front Panel Meter.

Both my old 520SE and the 530S show a lot closer to 900 volts on the
front panel meter, and I have always assumed that it is about as
accurate as the S-meter readings - Hi !

73 Graham M5AAV

11392. RE: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 18:58:19 UTC
From: Geoff Hegarty
Topic: 11389 Message: 11392

Hi again Kevin

Two things spring immediately to mind. Do you have an unusually high AC line voltage - I assume that the radio is set up for 240 volts?

Secondly, if you really have over 900V HT, it means that if you still have 450 volt capacitors installed, they are working beyond their ratings. If I were you, I'd wait for the 500V units before running the radio again.

Regards
Geoff VK2HQA

>From: "Bob" <bob7255khz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage
>Date: Mon, 11 Dec 2006 18:34:08 -0000
>
>--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
><sparcnz@...> wrote:
> >I feel ur safe to go for another 30 years!!!! BOB N3OO
> > Hi All,
> >
> > Sorry to be here again, on the same area, the HV line.
> >
> > I had got my radio back up and running after replacing the Filter
>capacitors as advised by this group. This worked out, and the radio is
>back operating.
> > I have however another concern. The HV line, from the manual, and by
>this group say the HV line should be 800v. Mine is putting out 915v.
>It is working all right, get it to load good, and I get good power
>out, by the external meter reading.
> > Am I looking too much into this? Or is this too high, and I have
>another problem? I can't see any control to lower this voltage.
> >
> > Again thanks in advance.
> >
> > Kevin, ZL1KFM
> >
> > Get Skype and call me for free.
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >

>
>

Advertisement: Amazing holiday rentals?
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fwww%2Eninemsn%2Erealestate%2Ecom%2Eau%2Fcgi%2Dbin%2Frsearch%3Fa%3Dbhp%26t%3Dhol%26cu%3DMSN&_t=758874163&_r=HM_Txt_Link_Holiday_Oct06&_m=EXT

11393. RE: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 19:10:27 UTC
From: Geoff Hegarty
Topic: 11389 Message: 11393

Kevin

Another note: be very careful putting a multimeter across the HT unless you are sure that it will handle that sort of voltage - some can't and will fry. If you want to make an accurate measurement of HT, rig up some sort of high resistance voltage divider and measure across each series element, adding the results to get a total.

Geoff VK2HQA

>From: "Bob" <bob7255khz@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage
>Date: Mon, 11 Dec 2006 18:34:08 -0000
>
>--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia"
><sparcnz@...> wrote:
> >I feel ur safe to go for another 30 years!!!! BOB N3OO
> > Hi All,
> >
> > Sorry to be here again, on the same area, the HV line.
> >
> > I had got my radio back up and running after replacing the Filter
>capacitors as advised by this group. This worked out, and the radio is
>back operating.
> > I have however another concern. The HV line, from the manual, and by
>this group say the HV line should be 800v. Mine is putting out 915v.
>It is working all right, get it to load good, and I get good power
>out, by the external meter reading.
> > Am I looking too much into this? Or is this too high, and I have
>another problem? I can't see any control to lower this voltage.
> >
> > Again thanks in advance.
> >
> > Kevin, ZL1KFM
> >
> > Get Skype and call me for free.
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

>

Advertisement: Meet Sexy Singles Today @ Lavalife - Click here
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Flavalife9%2Eninemsn%2Ecom%2Eau%2Fclickthru%2Fclickthru%2Eact%3Fid%3Dninemsn%26context%3Dan99%26locale%3Den%5FAU%26a%3D23769&_t=754951090&_r=endtext_lavalife_dec_meet&_m=EXT

11394. Repairer in Brisbane

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 21:00:52 UTC
From: Grant McDuling
Topic: 11394 Message: 11394

Hi,
my TS-520 takes ages to warm up - in excess of 10 minutes. No receive now either. I think the tubes have gone. Also the tuning cap is scratchy. Think this is above me.
Grant VK4JAZ

Action International Business Coach

Send instant messages to your online friends http://au.messenger.yahoo.com

[Non-text portions of this message have been removed]

11395. Kenwood TS-830s Front panel

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 21:02:11 UTC
From: court
Topic: 11395 Message: 11395

hello group, Im looking for a front panel for my 830 , the panel i have is in 99% condition but would like to know if someone has a mint condition one out there ? Also looking for a new RIT/XIT knob can anyone out there help
Cheers
Court

11396. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 22:25:03 UTC
From: n9wb
Topic: 11389 Message: 11396

It is unlikely that the voltage is actually high. Probably the meter is wrong. Replace R-5, R-6, and R-7 on the rectifier board. These are 680 K 1/2 watt. Also replace R-8. This is 100K 1/2 watt.
Vy 73, Walt N9WB

----- Original Message -----
From: Graham Ridgeway
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 1:29 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

On Tue, 12 Dec 2006 07:08:30 +1300, "Kevin & Natalia"
<sparcnz@...> wrote:

>Hi All,
>
>Sorry to be here again, on the same area, the HV line.
>
>I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
>I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
>Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.
>

I suppose the question has to be....is this the 'real' HT, measured
with a Multimeter with the covers off, or the 'indicated HT, as per
the Front Panel Meter.

Both my old 520SE and the 530S show a lot closer to 900 volts on the
front panel meter, and I have always assumed that it is about as
accurate as the S-meter readings - Hi !

73 Graham M5AAV

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

11397. Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-11 22:22:48 UTC
From: w5rkl
Topic: 11389 Message: 11397

The service manual shows that the high voltage filter capacitors are 100ufd with a working voltage of 500vdc each capacitor. If you have replaced both high voltage filter capacitors with 450vdc rated capacitor and your power supply is showing 915vdc, the filter caps total voltage rating has been exceeded. I would replace them with 500vdc rated capacitors.

The voltage you are seeing, 915vdc as in this case, is the unloaded high voltage power supply level. However, with a full load on the high voltage supply, for example, that shows 800vdc high voltage with final plate current reading of 250ma, that corresponds to 200 watts DC input. That corresponds to the manuals power rating.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, Graham Ridgeway <m5aav@...> wrote:
>
> On Tue, 12 Dec 2006 07:08:30 +1300, "Kevin & Natalia"
> <sparcnz@...> wrote:
>
> >Hi All,
> >
> >Sorry to be here again, on the same area, the HV line.
> >
> >I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
> >I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
> >Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.
> >
>
> I suppose the question has to be....is this the 'real' HT, measured
> with a Multimeter with the covers off, or the 'indicated HT, as per
> the Front Panel Meter.
>
> Both my old 520SE and the 530S show a lot closer to 900 volts on the
> front panel meter, and I have always assumed that it is about as
> accurate as the S-meter readings - Hi !

>
>
> 73 Graham M5AAV
>

11398. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 00:19:05 UTC
From: Another Old Codger
Topic: 11389 Message: 11398

This was a problem with my TS-530 when my power-line voltage was 253V. I tried a voltage stabilising txformer, but it could not cope with the varying load of SSB. I fitted a 12 Volt bucking txformer which brought the supply down to about 240V. AS we are on a rural supply and had our own mini-substation, I persuaded the power company to lower the taps to 235V. The difference this has made to things like the mini-power 'bricks' and lamps is amazing. everything last longer and seems more stable. Computers and etc., run much cooler!

I have a recording voltmeter, and the mains surges that it shows up are quite worrying, a known problem with rural overhead lines. It also happens in areas that have had increased development. The power companies are loath to upgrade their lines until they are forced to.

Ron G8URU.

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Monday, December 11, 2006 10:25 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

It is unlikely that the voltage is actually high. Probably the meter is wrong. Replace R-5, R-6, and R-7 on the rectifier board. These are 680 K 1/2 watt. Also replace R-8. This is 100K 1/2 watt.
Vy 73, Walt N9WB

11399. Backlit meter on the AT230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 01:17:13 UTC
From: ve3tmt
Topic: 11399 Message: 11399

It's as good as it is going to get. Take a look in the VE3TMT folder
in the photo section.

Max
VE3TMT

11400. Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 02:16:09 UTC
From: Clif
Topic: 11389 Message: 11400

Most that I have seen indicate around 900v in SSB. If the meter were off scale I would look at the metering resistors otherwise don't worry that's about right.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Kevin & Natalia" <sparcnz@...> wrote:
>
> Hi All,
>
> Sorry to be here again, on the same area, the HV line.
>
> I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
> I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
> Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.
>
> Again thanks in advance.
>
> Kevin, ZL1KFM
>
> Get Skype and call me for free.
>
>
>
> [Non-text portions of this message have been removed]
>

11401. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 03:00:59 UTC
From: Bill Scurlock
Topic: 11389 Message: 11401

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11402. Purchase of an HC-10 clock.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 03:20:26 UTC
From: John Harp
Topic: 11402 Message: 11402

Yes originally I posted a want ad for an HC-10 clock that is a matching accessory to the Kenwood radios we enjoy.

Well I got one and this is the official notice that the want ad has been filled.

Thank You,

JohnHarp-KA3DPW.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11403. VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 03:40:45 UTC
From: the_tick_lives
Topic: 6438 Message: 11403

Ok so reading some of the other posts it seems that the VFO cable is almost impossible to find. Does anyone have a source for the connectors to build one?

I too have aqquired a VFO with no cable. I understand the 9 pin tube socket was a popular plug used in Japan but never quite made it successfully here.

I've tried eBAY, lots of the tube parts/accessories places, Surplus Sales of Nebraska, Fair Radio and Antique Electronic Supply. No luck. I can find the octals, but not the 9 pin.

The problem is the one that comes on the back of the radio is also missing. I have to read the manual again to see what that jumper does but I can't even use the radio until I find at least 1.

Any help is appreciated!

Thanks!
Allen
N0GOM

11404. Re: Backlit meter on the AT230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 03:13:26 UTC
From: drewr3227
Topic: 11399 Message: 11404

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> It's as good as it is going to get. Take a look in the VE3TMT folder
> in the photo section.
>
> Max
> VE3TMT
>
Max,
I would like to do the same with my AT-200, how about letting us know
how you did it?
Thanks,
Drew
N8UXP

11405. Re: Backlit meter on the AT230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 04:12:19 UTC
From: ve3tmt
Topic: 11399 Message: 11405

--- In TS-520_820_530_830@yahoogroups.com, "drewr3227" <drew545@...>
wrote:

> Max,
> I would like to do the same with my AT-200, how about letting us know
> how you did it?
> Thanks,
> Drew
> N8UXP

Drew,

I used a 7W night light from the local dollar store. Actually I guess it should be called the $2 store as that's what the light cost me. I drilled two holes in the rear of the tuner, one for the AC cable and one for my push button switch to stick through. I fabricated a bracket to space the switch back just enough to pop through the hole in the "in" position. I used double sided tape to attach the base of the light to the inside wall of the tuner and the bulb lines up right behind the meter. The meter does not have the same translucent properties as the meter in the 830. Light will not pass through it, only around it. But it does brighten the meter up enough for my liking.

Max

11406. Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 04:13:26 UTC
From: Gordon
Topic: 6438 Message: 11406

Allen,
What rig are you working with ?
There is a surplus shop here that did have a BUNCH of the 9 pin connectors. I will get up there in the next couple of days to see if they still have the Bin full of them. If they do, I'll buy a couple and send them to you. If you are working on an 820, then you need to jump pins 8&9 on the VFO connector to get it to work. A bent Paper clip will do just that.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "the_tick_lives" <the_tick_lives@...> wrote:
>
> Ok so reading some of the other posts it seems that the VFO cable is
> almost impossible to find. Does anyone have a source for the
> connectors to build one?
>
> I too have aqquired a VFO with no cable. I understand the 9 pin tube
> socket was a popular plug used in Japan but never quite made it
> successfully here.
>
> I've tried eBAY, lots of the tube parts/accessories places, Surplus
> Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
> luck. I can find the octals, but not the 9 pin.
>
> The problem is the one that comes on the back of the radio is also
> missing. I have to read the manual again to see what that jumper
> does but I can't even use the radio until I find at least 1.
>
> Any help is appreciated!
>
> Thanks!
> Allen
> N0GOM
>

11407. Re: [TS-520_820_530_830] VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 04:56:57 UTC
From: Osamu Hazawa
Topic: 6438 Message: 11407

Allen and the list,

If you failed to find a source or used one, try
http://www.toyama-smenet.or.jp/~tmt/page2a.htm

They reproduce those cables, of course not original though.
If you don't mind their unbelievable price, try that.

Osamu Hazawa
http://www4.ocn.ne.jp/~pomerol/MyPage/menu4.html

----- Original Message -----
From: the_tick_lives
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 12:40 PM
Subject: [TS-520_820_530_830] VFO cable

Ok so reading some of the other posts it seems that the VFO cable is
almost impossible to find. Does anyone have a source for the
connectors to build one?

I too have aqquired a VFO with no cable. I understand the 9 pin tube
socket was a popular plug used in Japan but never quite made it
successfully here.

I've tried eBAY, lots of the tube parts/accessories places, Surplus
Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
luck. I can find the octals, but not the 9 pin.

The problem is the one that comes on the back of the radio is also
missing. I have to read the manual again to see what that jumper
does but I can't even use the radio until I find at least 1.

Any help is appreciated!

Thanks!
Allen
N0GOM

[Non-text portions of this message have been removed]

11408. Re: [TS-520_820_530_830] VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 05:47:25 UTC
From: jsloss
Topic: 6438 Message: 11408

Allen: Jumper Pin 8 and 9 on the VFO input connector and your radio should come alive. Check your manual to insure you jumper the correct pins.

Joe k7mks
----- Original Message -----
From: Osamu Hazawa
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 8:56 PM
Subject: Re: [TS-520_820_530_830] VFO cable

Allen and the list,

If you failed to find a source or used one, try
http://www.toyama-smenet.or.jp/~tmt/page2a.htm

They reproduce those cables, of course not original though.
If you don't mind their unbelievable price, try that.

Osamu Hazawa
http://www4.ocn.ne.jp/~pomerol/MyPage/menu4.html

----- Original Message -----
From: the_tick_lives
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 12:40 PM
Subject: [TS-520_820_530_830] VFO cable

Ok so reading some of the other posts it seems that the VFO cable is almost impossible to find. Does anyone have a source for the connectors to build one?

I too have aqquired a VFO with no cable. I understand the 9 pin tube socket was a popular plug used in Japan but never quite made it successfully here.

I've tried eBAY, lots of the tube parts/accessories places, Surplus Sales of Nebraska, Fair Radio and Antique Electronic Supply. No luck. I can find the octals, but not the 9 pin.

The problem is the one that comes on the back of the radio is also missing. I have to read the manual again to see what that jumper does but I can't even use the radio until I find at least 1.

Any help is appreciated!

Thanks!
Allen
N0GOM

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11409. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 06:45:57 UTC
From: Kevin & Natalia
Topic: 11389 Message: 11409

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.
I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com

Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11410. VFO cable Ye Olde Paper Clip Trick TS-520,820.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 09:40:56 UTC
From: n9wb
Topic: 11410 Message: 11410

Ye Olde Paper Clip Trick:

Looking at the back of the rig, find the space on the VFO socket. Count Counterclockwise to pins 8 and 9. These are the last two pins counter clockwise. As a double check, these are the first and second pins left of the space. Use a piece of a standard size paper clip and bend it into a U shape with legs about 1/4 inch long. Use this to connect pins 8 and 9 as located above. The standard size paper clip will have the correct wire diameter to simulate the plug pins. This will work in place of the jumper plug and you will be able to use your TS-520 or 820.

When you do make up a cable for the VFO, note that a couple of the wires need to be individually shielded.

Vy 73, Walt N9WB

----- Original Message -----
From: the_tick_lives
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 10:40 PM
Subject: [TS-520_820_530_830] VFO cable

Ok so reading some of the other posts it seems that the VFO cable is almost impossible to find. Does anyone have a source for the connectors to build one?

I too have aqquired a VFO with no cable. I understand the 9 pin tube socket was a popular plug used in Japan but never quite made it successfully here.

I've tried eBAY, lots of the tube parts/accessories places, Surplus Sales of Nebraska, Fair Radio and Antique Electronic Supply. No luck. I can find the octals, but not the 9 pin.

The problem is the one that comes on the back of the radio is also missing. I have to read the manual again to see what that jumper does but I can't even use the radio until I find at least 1.

Any help is appreciated!

Thanks!
Allen
N0GOM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

11411. Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 10:57:03 UTC
From: n9wb
Topic: 11411 Message: 11411

You should check to see if your transformer is set correctly. I don't believe that your TS-830 has a 120/220 switch on the rear panel. It is possible that the primary on the power transformer is wired wrong. On the primary side of the power transformer you will see two sets of taps labeled as follows: 120, 100, and 0.

With your mains voltage the transformer should be set as follows:

The windings are connected in series and in phase. There should a jumper between the 0 terminal on one winding and the 120 terminal on the other.

Then one wire from the mains (on off switch) should connect to the remaining 0 or 120 terminal. Another wire from the mains (fuse holder) should connect to the other remaining 0 or 120 terminal. So you have a series circuit. One mains wire goes through the switch and into winding #1. The circuit then comes from the other end of winding # 1 and goes into winding #2 by way of the jumper. The circuit then comes from the other end of winding # 2 to the mains wire through the fuse.

What you need to look for is whether either of both of the 100 terminals are being used instead of the 120.

Now where this will get tricky is that there will be a connection from one of the 100 terminals for the fan. Tell me what you have and the wire colours. I will suggest what to do if anything.

Disregarding the fan connections, If both 100 taps are used instead of the 120 taps, the rig is wired for 200 V. If one 120 and one 100 tap are used, the rig is wired for 220 volts. If both 120 taps are used, the rig is wired for 240 and that is what you want.

Before changing anything tell me what you have. It is very important that these windings be kept in phase. If changes must be made, the jumper should not be removed from it's 0 tap. If it goes to a 100 tap instead of a 120 tap, then only that end of the jumper should be moved to the 120 tap on the same winding.

Odds are your manual will show connections in parallel for 120 Volts on the diagram. So don't let this confuse you.

In my owner's manual on page 29, Paragraph 6.7 see instructions for 240 V operation. I am guessing that you may be wired for 220 instead of 240 V operation.

Use should use a 4 amp fuse instead of a 6 amp with mains voltages over 200 v.

In the files section of this group is a article about a light bulb tester. " Save your transformer". Using this when testing the rig after changes will save the transformer from damage if a diode or capacitor that is faulty, or installed incorrectly. Also it will save the transformer if it gets mis wired or a solder bridge develops during soldering.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:45 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.
I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com

Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

11412. Place model # in subject line.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 11:01:43 UTC
From: n9wb
Topic: 11412 Message: 11412

When making a post, please place the rig model # and make if it is not a Kenwood in the subject line and/or at the top of the message itself. A lot of time we can be more specific in helping you if we know what rig you are using. Even if you have told us previously, it is hard to remember when we get several of these troubleshooting threads going at once.

And beside that, I'm 57 years olde. I can't even remember why I am writing this message.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11413. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 12:04:02 UTC
From: Another Old Codger
Topic: 11389 Message: 11413

Bill, you are a man after my own heart, you know what a bucking transformer is. It is surprising how many people do not know this trick, and of course it works the other way. I used a 12V lighting transformer, which had a 4A 12V secondary. There is a brilliant circuit in the ARRL Handbook 1985 6-2, which shows how to build a Boost/Buck supply using a low current Variac and another transformer.

It's worth a read if you have power line problems.

Ron G8URU

----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 3:00 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11414. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 13:04:51 UTC
From: n9wb
Topic: 11389 Message: 11414

Well, don't keep it to yourself! Tell us all about buck and boost-buck transformers. How do we use a 12 V filament transformer for one ?
We are here to learn.

Vy 73, Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 7:04 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Bill, you are a man after my own heart, you know what a bucking transformer is. It is surprising how many people do not know this trick, and of course it works the other way. I used a 12V lighting transformer, which had a 4A 12V secondary. There is a brilliant circuit in the ARRL Handbook 1985 6-2, which shows how to build a Boost/Buck supply using a low current Variac and another transformer.

It's worth a read if you have power line problems.

Ron G8URU

----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 3:00 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit,

because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date: 12/11/06

[Non-text portions of this message have been removed]

11415. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 14:04:07 UTC
From: Bill Scurlock
Topic: 11389 Message: 11415

Ron.

When you build stuff out of your junk box, you have to learn how to improvise. I'm leaving town for a couple of days so I'll let you explain the "buck-boost" arrangements. I learned about this back in the late 1950's so assumed most everyone else knew it.

Walt - wait until you get to age 65 - you don't even remember that you forgot.

73, Bill, K5GCW
----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 6:04 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Bill, you are a man after my own heart, you know what a bucking transformer is. It is surprising how many people do not know this trick, and of course it works the other way. I used a 12V lighting transformer, which had a 4A 12V secondary. There is a brilliant circuit in the ARRL Handbook 1985 6-2, which shows how to build a Boost/Buck supply using a low current Variac and another transformer.

It's worth a read if you have power line problems.

Ron G8URU

----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 3:00 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11416. Group TUBE link failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 15:04:57 UTC
From: w5rkl
Topic: 11416 Message: 11416

The link listed in the Links "TUBES" section fails. It appears the
link is for the document "6146 Family of Tubes" by K9STH.

The following link does work. When the webpage comes up click on "6146
family of tubes" link. When Windows asks what you want to do, select
either "open with" or "save to disk".

http://k9sth.com/Page_2.html

73's

Mike
W5RKL

11417. Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 15:41:54 UTC
From: Clif
Topic: 6438 Message: 11417

Kenwood says they are discontinued.

Jumper pins 8-9 to make the radio work. The 9v for the main vfo is routed thru the remote vfo and back.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "the_tick_lives" <the_tick_lives@...> wrote:
>
> Ok so reading some of the other posts it seems that the VFO cable is
> almost impossible to find. Does anyone have a source for the
> connectors to build one?
>
> I too have aqquired a VFO with no cable. I understand the 9 pin tube
> socket was a popular plug used in Japan but never quite made it
> successfully here.
>
> I've tried eBAY, lots of the tube parts/accessories places, Surplus
> Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
> luck. I can find the octals, but not the 9 pin.
>
> The problem is the one that comes on the back of the radio is also
> missing. I have to read the manual again to see what that jumper
> does but I can't even use the radio until I find at least 1.
>
> Any help is appreciated!
>
> Thanks!
> Allen
> N0GOM
>

11418. Re: [TS-520_820_530_830] Group TUBE link failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 18:07:11 UTC
From: N6WK
Topic: 11416 Message: 11418

I fixed it and pointed it to a known good link.

73,
Gordon

w5rkl wrote:

>
> The link listed in the Links "TUBES" section fails. It appears the
> link is for the document "6146 Family of Tubes" by K9STH.
>
> The following link does work. When the webpage comes up click on "6146
> family of tubes" link. When Windows asks what you want to do, select
> either "open with" or "save to disk".
>
> http://k9sth.com/Page_2.html <http://k9sth.com/Page_2.html>
>
> 73's
>
> Mike
> W5RKL
>
>

[Non-text portions of this message have been removed]

11419. TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 18:01:43 UTC
From: k8wvg
Topic: 11419 Message: 11419

Happy to have found the group!

During tuneup of my 820s a check of idle plate current showed a correct 60ma. Continuing to adjust driver, plate, and load, I heard a "snap" in the rf final/rf board area and Ip pegged the meter. No smoke was seen.

After a quick shutdown and repower, a check of idle current on SEND showed a pegged meter again. Checking after Turning SG OFF shows expected zero current.

A swap of finals to known good tubes resulted in the same symptom, pegged idle current. Following some of the threads on this forum I pulled the finals, powered on with SG OFF and checked the following (at the RF board edge connectors):

FG: -96.1 volts
VR1: -103.5 volts (negative hot end of bias resistor)
VR2: -96.9 volts (bias pot wiper)
VR3: -94.5 volts (other end of bias pot, seems this should be nearer zero volts)

For jollies I pulled the rf board and extracted Q5 (checks OK with ohm meter and transistor checker), D7 (ok), and R38 (approx. 10K). No burned components are visible on the rf board or anywhere in the final assembly.

Hints/advice on other likely culprits gladly accepted.

73 Les k8wvg

11420. Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 19:56:46 UTC
From: Kevin & Natalia
Topic: 11411 Message: 11420

Hi Walt,

I was thinking after I sent my message that I should of put what tap setting I had.
Walt, in my case I have it set in series for 240v, (120+120). The radio came from Japan in this configuration, and the switch in the back is for 230/240v, no 110v for us. And it is set on 240, with a stop plate to prevent easy change.
So no changes are required within the voltage supply.

Thanks for your input Walt.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 11:57 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

You should check to see if your transformer is set correctly. I don't believe that your TS-830 has a 120/220 switch on the rear panel. It is possible that the primary on the power transformer is wired wrong. On the primary side of the power transformer you will see two sets of taps labeled as follows: 120, 100, and 0.

With your mains voltage the transformer should be set as follows:

The windings are connected in series and in phase. There should a jumper between the 0 terminal on one winding and the 120 terminal on the other.

Then one wire from the mains (on off switch) should connect to the remaining 0 or 120 terminal. Another wire from the mains (fuse holder) should connect to the other remaining 0 or 120 terminal. So you have a series circuit. One mains wire goes through the switch and into winding #1. The circuit then comes from the other end of winding # 1 and goes into winding #2 by way of the jumper. The circuit then comes from the other end of winding # 2 to the mains wire through the fuse.

What you need to look for is whether either of both of the 100 terminals are being used instead of the 120.

Now where this will get tricky is that there will be a connection from one of the 100 terminals for the fan. Tell me what you have and the wire colours. I will suggest what to do if anything.

Disregarding the fan connections, If both 100 taps are used instead of the 120 taps, the rig is wired for 200 V. If one 120 and one 100 tap are used, the rig is wired for 220 volts. If both 120 taps are used, the rig is wired for 240 and that is what you want.

Before changing anything tell me what you have. It is very important that these windings be kept in phase. If changes must be made, the jumper should not be removed from it's 0 tap. If it goes to a 100 tap instead of a 120 tap, then only that end of the jumper should be moved to the 120 tap on the same winding.

Odds are your manual will show connections in parallel for 120 Volts on the diagram. So don't let this confuse you.

In my owner's manual on page 29, Paragraph 6.7 see instructions for 240 V operation. I am guessing that you may be wired for 220 instead of 240 V operation.

Use should use a 4 amp fuse instead of a 6 amp with mains voltages over 200 v.

In the files section of this group is a article about a light bulb tester. " Save your transformer". Using this when testing the rig after changes will save the transformer from damage if a diode or capacitor that is faulty, or installed incorrectly. Also it will save the transformer if it gets mis wired or a solder bridge develops during soldering.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:45 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.
I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11421. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 20:13:02 UTC
From: Another Old Codger
Topic: 11389 Message: 11421

Bill.

I've done it in a fashion, are any of the older ARRl Handbooks on line anywhere?

I'm a few weeks short of eleven years past the age to remember that I forgot, (76). I now forget what I forgot I forgot, amazingly, I put my underpants on the right way round nine times out of ten. Do you have trouble recognizing the man you see in the mirror in the morning? ;-).

My kids don't seem to think I forgot, judging by the requests I get. The Grand-kids, think I'm brilliant, much cleverer than their Dads, so it is true, "You can fool some of the people all of the time"!!!

73 Ron, G8URU

----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 2:04 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Ron.

When you build stuff out of your junk box, you have to learn how to improvise. I'm leaving town for a couple of days so I'll let you explain the "buck-boost" arrangements. I learned about this back in the late 1950's so assumed most everyone else knew it.

Walt - wait until you get to age 65 - you don't even remember that you forgot.

73, Bill, K5GCW
----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 6:04 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Bill, you are a man after my own heart, you know what a bucking transformer is. It is surprising how many people do not know this trick, and of course it works the other way. I used a 12V lighting transformer, which had a 4A 12V secondary. There is a brilliant circuit in the ARRL Handbook 1985 6-2, which shows how to build a Boost/Buck supply using a low current Variac and another

transformer.

It's worth a read if you have power line problems.

Ron G8URU

11422. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 19:59:11 UTC
From: Another Old Codger
Topic: 11389 Message: 11422

It's very simple, you wire the Primary as normal across the power line, the Secondary is then wired in series with the power line to your rig and etc, One way this will add 12V to the power lines volts, (Boost), the other way will reduce the line voltage by 12V. The actual voltage is approximate as it depends on the incoming line voltage. It is preferable to use a transformer that has good insulation from the secondary to the core, otherwise the core could reach line voltage. For that reason it is preferable to wire the Secondary in series with the Neutral line, (I'm not sure what you call it Stateside). The Secondary must be able to carry the maximum current you are using, in which case the primary will be OK.

I'm not very good at scanning files, but I will try and copy the circuits and etc., from the ARRL Handbook, in to the files section.

If anyone has the 1985 Handbook, (this 'Limey' going to hang on to his), it's in section 6-2. Similar circuits are shown in the 1970 Handbook page 328, 1959 Handbook page 240. I haven't any later Handbooks, but I would guess it will be in later editions.

I'm sorry that it's a bit long-winded, I never use one word, when six will do.

73 Ron G8URU

----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 1:04 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Well, don't keep it to yourself! Tell us all about buck and boost-buck transformers. How do we use a 12 V filament transformer for one ? We are here to learn.

Vy 73, Walt N9WB

----- Original Message -----
From: Another Old Codger
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 7:04 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Bill, you are a man after my own heart, you know what a bucking transformer is. It is surprising how many people do not know this

trick, and of course it works the other way. I used a 12V lighting transformer, which had a 4A 12V secondary. There is a brilliant circuit in the ARRL Handbook 1985 6-2, which shows how to build a Boost/Buck supply using a low current Variac and another transformer.

It's worth a read if you have power line problems.

Ron G8URU

----- Original Message -----
From: "Bill Scurlock" <k5gcw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 3:00 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are
dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to
use an accurate DVM and make measurements inside the radio, or follow
Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter
capacitors as advised by this group. This worked out, and the radio
is
back operating.
I have however another concern. The HV line, from the manual, and by
this group say the HV line should be 800v. Mine is putting out 915v.
It is working all right, get it to load good, and I get good power
out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have
another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date:
12/11/06

[Non-text portions of this message have been removed]

11423. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 22:33:14 UTC
From: Graham Ridgeway
Topic: 11389 Message: 11423

>I'm not very good at scanning files, but I will try and copy the
>circuits and etc., from the ARRL Handbook, in to the files section.
>
>If anyone has the 1985 Handbook, (this 'Limey' going to hang on to
>his), it's in section 6-2. Similar circuits are shown in the 1970
>Handbook page 328, 1959 Handbook page 240. I haven't any later
>Handbooks, but I would guess it will be in later editions.
>

Even better - it is in the 1942 edition [which then cost $1-00]

73 Graham M5AAV

11424. Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 23:24:47 UTC
From: Gordon
Topic: 11389 Message: 11424

Here is the Picture and instructions from the 1978 handbook.
http://www.n6wk.com/kenwood/Buck%20&%20Boost.pdf

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
<clattering.ford@...> wrote:
>
> It's very simple, you wire the Primary as normal across the power
> line, the Secondary is then wired in series with the power line to
> your rig and etc, One way this will add 12V to the power lines volts,
> (Boost), the other way will reduce the line voltage by 12V. The actual
> voltage is approximate as it depends on the incoming line voltage. It
> is preferable to use a transformer that has good insulation from the
> secondary to the core, otherwise the core could reach line voltage.
> For that reason it is preferable to wire the Secondary in series with
> the Neutral line, (I'm not sure what you call it Stateside). The
> Secondary must be able to carry the maximum current you are using, in
> which case the primary will be OK.
>
> I'm not very good at scanning files, but I will try and copy the
> circuits and etc., from the ARRL Handbook, in to the files section.
>
> If anyone has the 1985 Handbook, (this 'Limey' going to hang on to
> his), it's in section 6-2. Similar circuits are shown in the 1970
> Handbook page 328, 1959 Handbook page 240. I haven't any later
> Handbooks, but I would guess it will be in later editions.
>
> I'm sorry that it's a bit long-winded, I never use one word, when six
> will do.
>
> 73 Ron G8URU
>
> ----- Original Message -----
> From: "n9wb" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, December 12, 2006 1:04 PM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
>
> Well, don't keep it to yourself! Tell us all about buck and boost-buck
> transformers. How do we use a 12 V filament transformer for one ?
> We are here to learn.

>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 12, 2006 7:04 AM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
>
> Bill, you are a man after my own heart, you know what a bucking
> transformer is. It is surprising how many people do not know this
> trick, and of course it works the other way. I used a 12V lighting
> transformer, which had a 4A 12V secondary. There is a brilliant
> circuit in the ARRL Handbook 1985 6-2, which shows how to build a
> Boost/Buck supply using a low current Variac and another
> transformer.
>
> It's worth a read if you have power line problems.
>
> Ron G8URU
>
> ----- Original Message -----
> From: "Bill Scurlock" <k5gcw@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, December 12, 2006 3:00 AM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
> Kevin.
>
> You have gotten some good comments back on the High Voltage. I had
> the same problem as Ron - high line voltage to my house. You
> definitely need to measure your line voltage so you know what you
> are
> dealing with. I use a filament transformer connected in the "buck"
> mode to reduce my line voltage down to 115VAC for all my old Kenwood
> and Collins equipment. I just went and checked my 520 and 830 to see
> what high voltage they indicated on their meters with 115 VAC input.
> This was done in the SSB mode with the load being the tube idling
> current of about 50Ma. One indicated 840vdc and the other indicated
> 850vdc. Without the reduction in my line voltage, they would be
> running about 900vdc.
>
> If you want to really know what the voltage level is, you will need
> to
> use an accurate DVM and make measurements inside the radio, or
> follow
> Walt's advice and change out the resistors in the metering circuit,

> because resistor values do change with age. Mike also raises a valid
> concern about exceeding the voltage rating of the capacitors.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Kevin & Natalia
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 11, 2006 12:08 PM
> Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
> Hi All,
>
> Sorry to be here again, on the same area, the HV line.
>
> I had got my radio back up and running after replacing the Filter
> capacitors as advised by this group. This worked out, and the radio
> is
> back operating.
> I have however another concern. The HV line, from the manual, and by
> this group say the HV line should be 800v. Mine is putting out 915v.
> It is working all right, get it to load good, and I get good power
> out, by the external meter reading.
> Am I looking too much into this? Or is this too high, and I have
> another problem? I can't see any control to lower this voltage.
>
> Again thanks in advance.
>
> Kevin, ZL1KFM
>
> Get Skype and call me for free.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date:
> 12/11/06
>

>
> [Non-text portions of this message have been removed]
>

11425. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-12 23:57:21 UTC
From: Another Old Codger
Topic: 11389 Message: 11425

I've scanned the Schematic, Files says it's too big so it's a jpeg in photos, you can't miss it. I'll type the text in to a post tomorrow, it's not very long.

I couldn't find it in the 1946 Handbook, probably not searching right, I am very old ;-)

73 Ron G8URU.

----- Original Message -----
From: "Graham Ridgeway" <m5aav@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 10:33 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

>I'm not very good at scanning files, but I will try and copy the
>circuits and etc., from the ARRL Handbook, in to the files section.
>
>If anyone has the 1985 Handbook, (this 'Limey' going to hang on to
>his), it's in section 6-2. Similar circuits are shown in the 1970
>Handbook page 328, 1959 Handbook page 240. I haven't any later
>Handbooks, but I would guess it will be in later editions.
>

Even better - it is in the 1942 edition [which then cost $1-00]

73 Graham M5AAV

11426. Re: [TS-520_820_530_830] VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 01:23:46 UTC
From: John Harp
Topic: 6438 Message: 11426

Allen,

This is John-KA3DPW. What VFO are you looking for a cable for?

I just bought one on ebay for my TS-830 and I see them every so often there. they are a straight thru cabling as I understand. I know a couple of sources to these in searches that find these occasionally. I got this one as a back up for my equipment. I like to keep extras when it's feasible. I get them for about 20 or 25 US dollars.

VFO's appear without cables several times a year I got one that way and had to get a cable separately.

VFO and amplifier relay cables show up on ebay, you just have to watch over time. The ones that are less often found are the transverter cables. the connectors at the transverter unit itself are something you would more likely have to make a substitute yourself.

Now 530 and 830 are more common than for say the 520.

So fill me in on what your looking for.

the_tick_lives <the_tick_lives@...> wrote:
Ok so reading some of the other posts it seems that the VFO cable is
almost impossible to find. Does anyone have a source for the
connectors to build one?

I too have aqquired a VFO with no cable. I understand the 9 pin tube
socket was a popular plug used in Japan but never quite made it
successfully here.

I've tried eBAY, lots of the tube parts/accessories places, Surplus
Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
luck. I can find the octals, but not the 9 pin.

The problem is the one that comes on the back of the radio is also
missing. I have to read the manual again to see what that jumper
does but I can't even use the radio until I find at least 1.

Any help is appreciated!

Thanks!
Allen
N0GOM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11427. Re: [TS-520_820_530_830] TS820S intermittent display problem

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 01:40:13 UTC
From: John Harp
Topic: 11381 Message: 11427

Jack at the risk of sounding kind of dumb, I say clean the rig and give it a good going over. pull all connectors and spray with contact cleaner one at a time and put them back on several times after that. this gets the dirt out of the contacts. Also the mounts that hold them down especially the grounding ones. back them out and clean them and put them back in. I've found it makes a difference in problems when you do this. The connections are clean and tight fitting.

If this doesn't work then get a magnifying glass and go over the board looking for bad solder joints.

Eliminate these more obvious things. they are cheaper and worth the time. Many times they eliminate problems. You may not know what it was but if its gone when you turn it on, then you got the problem.

Jack <kf4yio@...> wrote:
Hi all. Hope you can point me in the right direction. My TS820S has
an intermittant problem where the display will go blank for a second
or so and the audio will drop out. The display returns to normal and
the audio returns normally depending on the agc setting. Prior to
this, my display would drop one digit (usually the khz (100's)) and
return. I'm thinking I need to remove the display boards and clean
all the contacts but what might be causing the entire display and
audio to drop?

Thanks - Jack KF4YIO

Have a burning question? Go to Yahoo! Answers and get answers from real people who know.

[Non-text portions of this message have been removed]

11428. Re: [TS-520_820_530_830] Repairer in Brisbane

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 01:49:01 UTC
From: John Harp
Topic: 11394 Message: 11428

Grant clean tuning capacitor. They get dirty and sound scratchy upon turning. Use a good tuning cleaner that doesn't leave a residue. Do not try to force anything between the plates as they will lose thier spacing. Clean it with a spray and see what happens.

Second check your filament voltage and current. You shouldn't be that slow heating a directly heated valve. If there's that long a time heating up your filaments then odds are your not getting enough power to heat the tube. It may be they are old or it may be something is keeping the circuit from supplying the needed power to the tubes.

Try a tube swap first.

Grant McDuling <grantmcduling@...> wrote:
Hi,
my TS-520 takes ages to warm up - in excess of 10 minutes. No receive now either. I think the tubes have gone. Also the tuning cap is scratchy. Think this is above me.
Grant VK4JAZ

Action International Business Coach

Send instant messages to your online friends http://au.messenger.yahoo.com

[Non-text portions of this message have been removed]

Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11429. Re: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 00:06:38 UTC
From: Another Old Codger
Topic: 11389 Message: 11429

You had me worried for a minute, I thought I had duplicated but there is a third more sophisticated circuit on the jpeg in Photos. There's no excuse for power line troubles now, most of the bits can be found in your junk box. You do have a Junk Box don't you, that's what defines you as a Ham.

To keep the XYL happy it must be labelled "Very Valuable Material, Do Not Disturb" HI HI

73 Ron G8URU
----- Original Message -----
From: "Gordon" <n6wk@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 12, 2006 11:24 PM
Subject: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage

Here is the Picture and instructions from the 1978 handbook.
http://www.n6wk.com/kenwood/Buck%20&%20Boost.pdf

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger" <clattering.ford@...> wrote:
>
> It's very simple, you wire the Primary as normal across the power
> line, the Secondary is then wired in series with the power line to
> your rig and etc, One way this will add 12V to the power lines
> volts,
> (Boost), the other way will reduce the line voltage by 12V. The
> actual
> voltage is approximate as it depends on the incoming line voltage.
> It
> is preferable to use a transformer that has good insulation from the
> secondary to the core, otherwise the core could reach line voltage.
> For that reason it is preferable to wire the Secondary in series
> with
> the Neutral line, (I'm not sure what you call it Stateside). The
> Secondary must be able to carry the maximum current you are using,
> in
> which case the primary will be OK.
>
> I'm not very good at scanning files, but I will try and copy the
> circuits and etc., from the ARRL Handbook, in to the files section.

>
> If anyone has the 1985 Handbook, (this 'Limey' going to hang on to
> his), it's in section 6-2. Similar circuits are shown in the 1970
> Handbook page 328, 1959 Handbook page 240. I haven't any later
> Handbooks, but I would guess it will be in later editions.
>
> I'm sorry that it's a bit long-winded, I never use one word, when
> six
> will do.
>
> 73 Ron G8URU
>
> ----- Original Message -----
> From: "n9wb" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, December 12, 2006 1:04 PM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
>
> Well, don't keep it to yourself! Tell us all about buck and
> boost-buck
> transformers. How do we use a 12 V filament transformer for one ?
> We are here to learn.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 12, 2006 7:04 AM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
>
> Bill, you are a man after my own heart, you know what a bucking
> transformer is. It is surprising how many people do not know this
> trick, and of course it works the other way. I used a 12V lighting
> transformer, which had a 4A 12V secondary. There is a brilliant
> circuit in the ARRL Handbook 1985 6-2, which shows how to build a
> Boost/Buck supply using a low current Variac and another
> transformer.
>
> It's worth a read if you have power line problems.
>
> Ron G8URU
>
> ----- Original Message -----
> From: "Bill Scurlock" <k5gcw@...>
> To: <TS-520_820_530_830@yahoogroups.com>

> Sent: Tuesday, December 12, 2006 3:00 AM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
> Kevin.
>
> You have gotten some good comments back on the High Voltage. I had
> the same problem as Ron - high line voltage to my house. You
> definitely need to measure your line voltage so you know what you
> are
> dealing with. I use a filament transformer connected in the "buck"
> mode to reduce my line voltage down to 115VAC for all my old
> Kenwood
> and Collins equipment. I just went and checked my 520 and 830 to
> see
> what high voltage they indicated on their meters with 115 VAC
> input.
> This was done in the SSB mode with the load being the tube idling
> current of about 50Ma. One indicated 840vdc and the other
> indicated
> 850vdc. Without the reduction in my line voltage, they would be
> running about 900vdc.
>
> If you want to really know what the voltage level is, you will
> need
> to
> use an accurate DVM and make measurements inside the radio, or
> follow
> Walt's advice and change out the resistors in the metering
> circuit,
> because resistor values do change with age. Mike also raises a
> valid
> concern about exceeding the voltage rating of the capacitors.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Kevin & Natalia
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 11, 2006 12:08 PM
> Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
> Hi All,
>
> Sorry to be here again, on the same area, the HV line.
>
> I had got my radio back up and running after replacing the Filter
> capacitors as advised by this group. This worked out, and the
> radio
> is

> back operating.
> I have however another concern. The HV line, from the manual, and
> by
> this group say the HV line should be 800v. Mine is putting out
> 915v.
> It is working all right, get it to load good, and I get good power
> out, by the external meter reading.
> Am I looking too much into this? Or is this too high, and I have
> another problem? I can't see any control to lower this voltage.
>
> Again thanks in advance.
>
> Kevin, ZL1KFM
>
> Get Skype and call me for free.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date:
> 12/11/06
>
>
> [Non-text portions of this message have been removed]
>

11430. TS-820 Band SW Timimg Off

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 02:16:31 UTC
From: Edwin
Topic: 11430 Message: 11430

Without going into a long story, (5years), my TS-820 bandswitch has become misaligned with the front panel bandswitch and I have to realign the two. As far as I can tell the DRIVE rear wafer PC board, AUX transformer's trace is the outside trace on the right hand side of the board as viewed from the rear. If you follow this trace up to it's contact it end's up at the top of the board, just to the right of the 12 o'clock position as viewed from the rear.
Would or could anyone verify this or give an easier way to time these two switches.
Thanks a lot
Edwin
N1DFB, CT

[Non-text portions of this message have been removed]

11431. Re: [TS-520_820_530_830] Repairer in Brisbane

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 01:54:07 UTC
From: martin
Topic: 11394 Message: 11431

Check all the operating voltages. It sounds like a low voltage
somewhere might be the cause of both problems.

John Harp wrote:
> Grant clean tuning capacitor. They get dirty and sound scratchy upon turning. Use a good tuning cleaner that doesn't leave a residue. Do not try to force anything between the plates as they will lose thier spacing. Clean it with a spray and see what happens.
>
> Second check your filament voltage and current. You shouldn't be that slow heating a directly heated valve. If there's that long a time heating up your filaments then odds are your not getting enough power to heat the tube. It may be they are old or it may be something is keeping the circuit from supplying the needed power to the tubes.
>
> Try a tube swap first.
>
> Grant McDuling <grantmcduling@...> wrote:
> Hi,
> my TS-520 takes ages to warm up - in excess of 10 minutes. No receive now either. I think the tubes have gone. Also the tuning cap is scratchy. Think this is above me.
> Grant VK4JAZ
>
>
> Action International Business Coach
>
> Send instant messages to your online friends http://au.messenger.yahoo.com
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail beta.
>
> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>

>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11432. Re: [TS-520_820_530_830] Group TUBE link failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 07:07:08 UTC
From: n9wb
Topic: 11416 Message: 11432

Thank You Gordon!
----- Original Message -----
From: N6WK
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:07 PM
Subject: Re: [TS-520_820_530_830] Group TUBE link failure

I fixed it and pointed it to a known good link.

73,
Gordon

11433. Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 07:37:52 UTC
From: n9wb
Topic: 11411 Message: 11433

OK,that eliminates one concern. What is the plate voltage when you are tuned up full tilt on CW ? Does it drop a lot? Also, you might want to check the screen voltage. This is available at a point labeled SG on the final board.

On the transformer there is a tap labeled 12.6 and a adjacent tap labeled 0. This 0 tap goes to chassis ground. With the tube filaments on what does the 12.6 tap read to ground on AC volts ?

There are a couple of things that concern me about this high plate voltage, some good, some bad. I will explain more when I see the above information.

Each of the filter capacitors have 470 K bleeder resistors across them. These should be checked or just replaced. If you check them, be sure to let the rig set for a while and then short across the capacitors before connecting your ohm meter. Putting a clip lead across each capacitor for a few minutes will fully discharge them. A charge in them may damage your ohm meter.

These serve two purposes. First, they slowly discharge the caps when power is off for personal safety. Second, they provide a bit of balance between the capacitors when there is a low load on it. If they went very high in value, I suppose that they might allow the unloaded voltage to go higher than normal. That is one of a couple of reasons that I am interested what the rig's HV meter reads on SSB no Audio compared to 100 watts or so of CW output.

If the high voltage is just a bit high and the capacitors are rated at a high enough voltage to deal with it, that in and of itself will not be a problem. It will just give you a bit more power. However, if the filaments are running high and the 14 volt buss is running high, that might be troublesome.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 2:56 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Hi Walt,

I was thinking after I sent my message that I should of put what tap setting I had.
Walt, in my case I have it set in series for 240v, (120+120). The radio came from Japan in this configuration, and the switch in the back is for 230/240v, no 110v for us. And it is set on 240, with a stop plate to prevent easy change.
So no changes are required within the voltage supply.

Thanks for your input Walt.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 11:57 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

You should check to see if your transformer is set correctly. I don't believe that your TS-830 has a 120/220 switch on the rear panel. It is possible that the primary on the power transformer is wired wrong. On the primary side of the power transformer you will see two sets of taps labeled as follows: 120, 100, and 0.

With your mains voltage the transformer should be set as follows:

The windings are connected in series and in phase. There should a jumper between the 0 terminal on one winding and the 120 terminal on the other.

Then one wire from the mains (on off switch) should connect to the remaining 0 or 120 terminal. Another wire from the mains (fuse holder) should connect to the other remaining 0 or 120 terminal. So you have a series circuit. One mains wire goes through the switch and into winding #1. The circuit then comes from the other end of winding # 1 and goes into winding #2 by way of the jumper. The circuit then comes from the other end of winding # 2 to the mains wire through the fuse.

What you need to look for is whether either of both of the 100 terminals are being used instead of the 120.

Now where this will get tricky is that there will be a connection from one of the 100 terminals for the fan. Tell me what you have and the wire colours. I will suggest what to do if anything.

Disregarding the fan connections, If both 100 taps are used instead of the 120 taps, the rig is wired for 200 V. If one 120 and one 100 tap are used, the rig is wired for 220 volts. If both 120 taps are used, the rig is wired for 240 and that is what you want.

Before changing anything tell me what you have. It is very important that these windings be kept in phase. If changes must be made, the jumper should not be removed from it's 0 tap. If it goes to a 100 tap instead of a 120 tap, then only that end of the jumper should be moved to the 120 tap on the same winding.

Odds are your manual will show connections in parallel for 120 Volts on the diagram. So don't let this confuse you.

In my owner's manual on page 29, Paragraph 6.7 see instructions for 240 V operation. I am guessing that you may be wired for 220 instead of 240 V operation.

Use should use a 4 amp fuse instead of a 6 amp with mains voltages over 200 v.

In the files section of this group is a article about a light bulb tester. " Save your transformer". Using this when testing the rig after changes will save the transformer from damage if a diode or capacitor that is faulty, or installed incorrectly. Also it will save the transformer if it gets mis wired or a solder bridge develops during soldering.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:45 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.
I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com

Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date: 12/11/06

[Non-text portions of this message have been removed]

11434. Re: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 07:58:53 UTC
From: n9wb
Topic: 11389 Message: 11434

Thank you Gordon.
It was going to be a while before I would have had time to look this up. Its too bad that these type of things are not in modern reference materials.

Vy 73, Walt N9WB

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 6:24 PM
Subject: [TS-520_820_530_830] Re: TS-830S - HV, What is the Actual Voltage

Here is the Picture and instructions from the 1978 handbook.
http://www.n6wk.com/kenwood/Buck%20&%20Boost.pdf

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
<clattering.ford@...> wrote:
>
> It's very simple, you wire the Primary as normal across the power
> line, the Secondary is then wired in series with the power line to
> your rig and etc, One way this will add 12V to the power lines volts,
> (Boost), the other way will reduce the line voltage by 12V. The actual
> voltage is approximate as it depends on the incoming line voltage. It
> is preferable to use a transformer that has good insulation from the
> secondary to the core, otherwise the core could reach line voltage.
> For that reason it is preferable to wire the Secondary in series with
> the Neutral line, (I'm not sure what you call it Stateside). The
> Secondary must be able to carry the maximum current you are using, in
> which case the primary will be OK.
>
> I'm not very good at scanning files, but I will try and copy the
> circuits and etc., from the ARRL Handbook, in to the files section.
>
> If anyone has the 1985 Handbook, (this 'Limey' going to hang on to
> his), it's in section 6-2. Similar circuits are shown in the 1970
> Handbook page 328, 1959 Handbook page 240. I haven't any later
> Handbooks, but I would guess it will be in later editions.
>
> I'm sorry that it's a bit long-winded, I never use one word, when six
> will do.
>
> 73 Ron G8URU

>
> ----- Original Message -----
> From: "n9wb" <n9wb@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, December 12, 2006 1:04 PM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
>
> Well, don't keep it to yourself! Tell us all about buck and boost-buck
> transformers. How do we use a 12 V filament transformer for one ?
> We are here to learn.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Another Old Codger
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 12, 2006 7:04 AM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
>
> Bill, you are a man after my own heart, you know what a bucking
> transformer is. It is surprising how many people do not know this
> trick, and of course it works the other way. I used a 12V lighting
> transformer, which had a 4A 12V secondary. There is a brilliant
> circuit in the ARRL Handbook 1985 6-2, which shows how to build a
> Boost/Buck supply using a low current Variac and another
> transformer.
>
> It's worth a read if you have power line problems.
>
> Ron G8URU
>
> ----- Original Message -----
> From: "Bill Scurlock" <k5gcw@...>
> To: <TS-520_820_530_830@yahoogroups.com>
> Sent: Tuesday, December 12, 2006 3:00 AM
> Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
> Kevin.
>
> You have gotten some good comments back on the High Voltage. I had
> the same problem as Ron - high line voltage to my house. You
> definitely need to measure your line voltage so you know what you
> are
> dealing with. I use a filament transformer connected in the "buck"
> mode to reduce my line voltage down to 115VAC for all my old Kenwood

> and Collins equipment. I just went and checked my 520 and 830 to see
> what high voltage they indicated on their meters with 115 VAC input.
> This was done in the SSB mode with the load being the tube idling
> current of about 50Ma. One indicated 840vdc and the other indicated
> 850vdc. Without the reduction in my line voltage, they would be
> running about 900vdc.
>
> If you want to really know what the voltage level is, you will need
> to
> use an accurate DVM and make measurements inside the radio, or
> follow
> Walt's advice and change out the resistors in the metering circuit,
> because resistor values do change with age. Mike also raises a valid
> concern about exceeding the voltage rating of the capacitors.
>
> 73, Bill, K5GCW
> ----- Original Message -----
> From: Kevin & Natalia
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 11, 2006 12:08 PM
> Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> Voltage
>
> Hi All,
>
> Sorry to be here again, on the same area, the HV line.
>
> I had got my radio back up and running after replacing the Filter
> capacitors as advised by this group. This worked out, and the radio
> is
> back operating.
> I have however another concern. The HV line, from the manual, and by
> this group say the HV line should be 800v. Mine is putting out 915v.
> It is working all right, get it to load good, and I get good power
> out, by the external meter reading.
> Am I looking too much into this? Or is this too high, and I have
> another problem? I can't see any control to lower this voltage.
>
> Again thanks in advance.
>
> Kevin, ZL1KFM
>
> Get Skype and call me for free.
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>

>
>
>
>

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date:
> 12/11/06
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date: 12/11/06

[Non-text portions of this message have been removed]

11435. Re: TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 18:06:38 UTC
From: Jerry Palsson
Topic: 11389 Message: 11435

Thanks for posting this, Gordon. Just an FYI for others: Anyone with the 1984 edition of the Handbook will find the buck-and-boost description on page 5-2. It's in the chapter titled "AC-Operated Power Supplies."

Jerry AA6KI
Tucson

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Here is the Picture and instructions from the 1978 handbook.
> http://www.n6wk.com/kenwood/Buck%20&%20Boost.pdf
>
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
> <clattering.ford@> wrote:
> >
> > It's very simple, you wire the Primary as normal across the power
> > line, the Secondary is then wired in series with the power line
to
> > your rig and etc, One way this will add 12V to the power lines
volts,
> > (Boost), the other way will reduce the line voltage by 12V. The
actual
> > voltage is approximate as it depends on the incoming line
voltage. It
> > is preferable to use a transformer that has good insulation from
the
> > secondary to the core, otherwise the core could reach line
voltage.
> > For that reason it is preferable to wire the Secondary in series
with
> > the Neutral line, (I'm not sure what you call it Stateside). The
> > Secondary must be able to carry the maximum current you are
using, in
> > which case the primary will be OK.
> >
> > I'm not very good at scanning files, but I will try and copy the
> > circuits and etc., from the ARRL Handbook, in to the files
section.
> >
> > If anyone has the 1985 Handbook, (this 'Limey' going to hang on
to

> > his), it's in section 6-2. Similar circuits are shown in the 1970
> > Handbook page 328, 1959 Handbook page 240. I haven't any later
> > Handbooks, but I would guess it will be in later editions.
> >
> > I'm sorry that it's a bit long-winded, I never use one word, when
six
> > will do.
> >
> > 73 Ron G8URU
> >
> > ----- Original Message -----
> > From: "n9wb" <n9wb@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Tuesday, December 12, 2006 1:04 PM
> > Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the
Actual
> > Voltage
> >
> >
> > Well, don't keep it to yourself! Tell us all about buck and boost-
buck
> > transformers. How do we use a 12 V filament transformer for one ?
> > We are here to learn.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: Another Old Codger
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Tuesday, December 12, 2006 7:04 AM
> > Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the
Actual
> > Voltage
> >
> >
> > Bill, you are a man after my own heart, you know what a bucking
> > transformer is. It is surprising how many people do not know
this
> > trick, and of course it works the other way. I used a 12V
lighting
> > transformer, which had a 4A 12V secondary. There is a brilliant
> > circuit in the ARRL Handbook 1985 6-2, which shows how to build
a
> > Boost/Buck supply using a low current Variac and another
> > transformer.
> >
> > It's worth a read if you have power line problems.
> >
> > Ron G8URU
> >

> > ----- Original Message -----
> > From: "Bill Scurlock" <k5gcw@>
> > To: <TS-520_820_530_830@yahoogroups.com>
> > Sent: Tuesday, December 12, 2006 3:00 AM
> > Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the
Actual
> > Voltage
> >
> > Kevin.
> >
> > You have gotten some good comments back on the High Voltage. I
had
> > the same problem as Ron - high line voltage to my house. You
> > definitely need to measure your line voltage so you know what
you
> > are
> > dealing with. I use a filament transformer connected in the
"buck"
> > mode to reduce my line voltage down to 115VAC for all my old
Kenwood
> > and Collins equipment. I just went and checked my 520 and 830
to see
> > what high voltage they indicated on their meters with 115 VAC
input.
> > This was done in the SSB mode with the load being the tube
idling
> > current of about 50Ma. One indicated 840vdc and the other
indicated
> > 850vdc. Without the reduction in my line voltage, they would be
> > running about 900vdc.
> >
> > If you want to really know what the voltage level is, you will
need
> > to
> > use an accurate DVM and make measurements inside the radio, or
> > follow
> > Walt's advice and change out the resistors in the metering
circuit,
> > because resistor values do change with age. Mike also raises a
valid
> > concern about exceeding the voltage rating of the capacitors.
> >
> > 73, Bill, K5GCW
> > ----- Original Message -----
> > From: Kevin & Natalia
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, December 11, 2006 12:08 PM
> > Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual
> > Voltage
> >

> > Hi All,
> >
> > Sorry to be here again, on the same area, the HV line.
> >
> > I had got my radio back up and running after replacing the
Filter
> > capacitors as advised by this group. This worked out, and the
radio
> > is
> > back operating.
> > I have however another concern. The HV line, from the manual,
and by
> > this group say the HV line should be 800v. Mine is putting out
915v.
> > It is working all right, get it to load good, and I get good
power
> > out, by the external meter reading.
> > Am I looking too much into this? Or is this too high, and I have
> > another problem? I can't see any control to lower this voltage.
> >
> > Again thanks in advance.
> >
> > Kevin, ZL1KFM
> >
> > Get Skype and call me for free.
> >
> > [Non-text portions of this message have been removed]
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> >
> >
> >
> --

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.16/582 - Release
Date:
> > 12/11/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

11436. Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 20:13:40 UTC
From: Kevin & Natalia
Topic: 11411 Message: 11436

Walt,

Please see my replies inside your message.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 8:37 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

OK,that eliminates one concern. What is the plate voltage when you are tuned up full tilt on CW ? Does it drop a lot? Also, you might want to check the screen voltage. This is available at a point labeled SG on the final board.

On the transformer there is a tap labeled 12.6 and a adjacent tap labeled 0. This 0 tap goes to chassis ground. With the tube filaments on what does the 12.6 tap read to ground on AC volts ?

KM) - The 12.6vAC no-load is reading 12.76v, under load when Send is pressed, it drops to 12.66vAC, so I would expect this reading to be okay.

There are a couple of things that concern me about this high plate voltage, some good, some bad. I will explain more when I see the above information.

Each of the filter capacitors have 470 K bleeder resistors across them. These should be checked or just replaced. If you check them, be sure to let the rig set for a while and then short across the capacitors before connecting your ohm meter. Putting a clip lead across each capacitor for a few minutes will fully discharge them. A charge in them may damage your ohm meter.

KM) - I replaced the resistors and the 2x .01uF caps that go across the filter capacitors. The orignal resistors were okay, but seeing how they were wrapped around the filters caps, I decided to just change everything for new. The .01 caps should not go, as I only had 1500v ones, so used these.

These serve two purposes. First, they slowly discharge the caps when power is off for personal safety. Second, they provide a bit of balance between the capacitors when there is a low load on it. If they went very high in value, I suppose that they might allow the unloaded voltage to go higher than normal. That is one of a couple of reasons that I am interested what the rig's HV meter reads on SSB no Audio compared to 100 watts or so of CW output.

KM) - Checking the HV meter, and I also used my Fluke.

Under no-load, the fluke was reading around 915vDC, under load, with send switch on, this dropped to 855vDC, the meter was reading around 850v. So again, this appears to be operating correctly.

If the high voltage is just a bit high and the capacitors are rated at a high enough voltage to deal with it, that in and of itself will not be a problem. It will just give you a bit more power. However, if the filaments are running high and the 14 volt buss is running high, that might be troublesome.

Guess then, with the information you have supplied, and the information returned from your questions, is that the radio appears to be operating as it should. Voltages are within required specs. In my case, the filter caps were the reason for my non-working TS-830.

Again, Thanks for you continual help and patance over this matter.

An excelent Elmer!

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 2:56 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Hi Walt,

I was thinking after I sent my message that I should of put what tap setting I had.
Walt, in my case I have it set in series for 240v, (120+120). The radio came from Japan in this configuration, and the switch in the back is for 230/240v, no 110v for us. And it is set on 240, with a stop plate to prevent easy change.
So no changes are required within the voltage supply.

Thanks for your input Walt.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 11:57 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

You should check to see if your transformer is set correctly. I don't believe that your TS-830 has a 120/220 switch on the rear panel. It is possible that the primary on the power transformer is wired wrong. On the primary side of the power transformer you will see two sets of taps labeled as follows: 120, 100, and 0.

With your mains voltage the transformer should be set as follows:

The windings are connected in series and in phase. There should a jumper between the 0 terminal on one winding and the 120 terminal on the other.

Then one wire from the mains (on off switch) should connect to the remaining 0 or 120 terminal. Another wire from the mains (fuse holder) should connect to the other remaining 0 or 120 terminal. So you have a series circuit. One mains wire goes through the switch and into winding #1. The circuit then comes from the other end of winding # 1 and goes into winding #2 by way of the jumper. The circuit then comes from the other end of winding # 2 to the mains wire through the fuse.

What you need to look for is whether either of both of the 100 terminals are being used instead of the 120.

Now where this will get tricky is that there will be a connection from one of the 100 terminals for the fan. Tell me what you have and the wire colours. I will suggest what to do if anything.

Disregarding the fan connections, If both 100 taps are used instead of the 120 taps, the rig is wired for 200 V. If one 120 and one 100 tap are used, the rig is wired for 220 volts. If both 120 taps are used, the rig is wired for 240 and that is what you want.

Before changing anything tell me what you have. It is very important that these windings be kept in phase. If changes must be made, the jumper should not be removed from it's 0 tap. If it goes to a 100 tap instead of a 120 tap, then only that end of the jumper should be moved to the 120 tap on the same winding.

Odds are your manual will show connections in parallel for 120 Volts on the diagram. So don't let this confuse you.

In my owner's manual on page 29, Paragraph 6.7 see instructions for 240 V operation. I am guessing that you may be wired for 220 instead of 240 V operation.

Use should use a 4 amp fuse instead of a 6 amp with mains voltages over 200 v.

In the files section of this group is a article about a light bulb tester. " Save your transformer". Using this when testing the rig after changes will save the transformer from damage if a diode or capacitor that is faulty, or installed incorrectly. Also it will save the transformer if it gets mis wired or a solder bridge develops during soldering.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:45 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.

I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.

Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date: 12/11/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11437. Buck Transformer (or Boost) for less than optimum Mains Voltages

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 20:50:08 UTC
From: Larry Shorthill
Topic: 11437 Message: 11437

One of the most prolific and best technical discussion groups I ever engaged with (besides this one)is a group that worked on the R390A receiver. For those of you who are not familiar with this RX, it is a 500KHz (KCycle) to 32MHz (MCycle) general coverage RX originally developed by Collins for the military. Is was the 2nd Mark of the family and was all tubes. It was produced by numerous contractors from Collins and Motorola to (allegedly) Helena Rubenstein (though no one has ever reported seeing one from that company).

It was, and still is, a standard by which other RXs are judged and for a tube rig was famous for its stabilty and performance. It was extensively used in the Vietnam era and it is a piece of cold war legend. Several of these were on the ill fated Pueblo that N Korea captured. Rumor has it that these were to be destroyed in the event of capture (but the Pueblo crew didn't have the time) and that general in service, many were alleged to have been rigged with some type of explosive just in case of capture. I could go on but I need to get to the point of this topic.

The R390A is not for the faint of heart as a casual hobbiest RX since it is big, heavy, and dissipates a lot of heat. Two of the tubes in that beast are rectifiers and a Naval field upgrade was to remove them and replace them with Silicon rectifiers with a resultant rise in rectified voltages throughout the RX. This stressed all of the components with higher dissipation and higher voltages applied, but the Navy figured it was worth it.

Many R390A restorers are actually going back to the tube rectifiers to unstress their rigs but the extra heat generated from the rectifiers, in my mind isn't worth it. A better way to reduce the stress on the circuitry is to reduce the input voltages applied and some use variacs mounted along side their R390A. Another way is by using a voltage buck transformer either mounted inside the RX or as an adjunct to it.

For references on the transformer circuit used, just google 'R390a buck transformer' and a few references will come up. However, here is a good link to see the R390A in its glory, and at the bottom of the site is a link to compensate high voltages. Also, in case someone has a low voltage condition, the buck transformer can be configured in opposite polarity to boost the mains voltage.

http://www.r-390a.net/

If you think the Kenwood Hybrids are a gas, I recommend you keep your eye out for an R390A in reasonable condition. Your appreciation of

tube electronics will go up exponentially once you start dabbling in these things. They make the TS-830 look like a piece of cake.

Best regards and Merry Christmas to everyone.

Larry
KC7ULI

11438. Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 20:57:22 UTC
From: n9wb
Topic: 11411 Message: 11438

In summary, since the filament voltage is well within spec, I don't think you have any issues except for the need for more voltage head room on the filter caps. however it was good to visit possible other issues.

I didn't want to cause you to panic, but I wanted to be sure that you did not have a shorted turn on the transformer primary. Fortunately, you don't since the 12.6 is very well within spec. The 850 to 855 volts with load is not really that high. The additional increase under no load is probably due to the increased storage capacity of the 150 uf caps.

I would probably trust the Fluke over the multimeter in the rig. Choosing 680 K and a 100 K resistor that is very close to these values in tolerance should improve the multimeter accuracy. So when you get the new caps, you should have a good healthy rig. Be sure to use a 4 amp fast fuse for protection since your mains voltage is higher.

Hope to hear you on the air.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 3:13 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Walt,

Please see my replies inside your message.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 8:37 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

OK,that eliminates one concern. What is the plate voltage when you are tuned up full tilt on CW ? Does it drop a lot? Also, you might want to check the screen voltage. This is available at a point labeled SG on the final board.

On the transformer there is a tap labeled 12.6 and a adjacent tap labeled 0. This 0 tap goes to chassis ground. With the tube filaments on what does the 12.6 tap read to ground on AC volts ?

KM) - The 12.6vAC no-load is reading 12.76v, under load when Send is pressed, it drops to 12.66vAC, so I would expect this reading to be okay.

There are a couple of things that concern me about this high plate voltage, some good, some bad. I will explain more when I see the above information.

Each of the filter capacitors have 470 K bleeder resistors across them. These should be checked or just replaced. If you check them, be sure to let the rig set for a while and then short across the capacitors before connecting your ohm meter. Putting a clip lead across each capacitor for a few minutes will fully discharge them. A charge in them may damage your ohm meter.

KM) - I replaced the resistors and the 2x .01uF caps that go across the filter capacitors. The orignal resistors were okay, but seeing how they were wrapped around the filters caps, I decided to just change everything for new. The .01 caps should not go, as I only had 1500v ones, so used these.

These serve two purposes. First, they slowly discharge the caps when power is off for personal safety. Second, they provide a bit of balance between the capacitors when there is a low load on it. If they went very high in value, I suppose that they might allow the unloaded voltage to go higher than normal. That is one of a couple of reasons that I am interested what the rig's HV meter reads on SSB no Audio compared to 100 watts or so of CW output.

KM) - Checking the HV meter, and I also used my Fluke.

Under no-load, the fluke was reading around 915vDC, under load, with send switch on, this dropped to 855vDC, the meter was reading around 850v. So again, this appears to be operating correctly.

If the high voltage is just a bit high and the capacitors are rated at a high enough voltage to deal with it, that in and of itself will not be a problem. It will just give you a bit more power. However, if the filaments are running high and the 14 volt buss is running high, that might be troublesome.

Guess then, with the information you have supplied, and the information returned from your questions, is that the radio appears to be operating as it should. Voltages are within required specs. In my case, the filter caps were the reason for my non-working TS-830.

Again, Thanks for you continual help and patance over this matter.

An excelent Elmer!

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 2:56 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Hi Walt,

I was thinking after I sent my message that I should of put what tap setting I had.
Walt, in my case I have it set in series for 240v, (120+120). The radio came from Japan in

this configuration, and the switch in the back is for 230/240v, no 110v for us. And it is set on 240, with a stop plate to prevent easy change.
So no changes are required within the voltage supply.

Thanks for your input Walt.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 11:57 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

You should check to see if your transformer is set correctly. I don't believe that your TS-830 has a 120/220 switch on the rear panel. It is possible that the primary on the power transformer is wired wrong. On the primary side of the power transformer you will see two sets of taps labeled as follows: 120, 100, and 0.

With your mains voltage the transformer should be set as follows:

The windings are connected in series and in phase. There should a jumper between the 0 terminal on one winding and the 120 terminal on the other.

Then one wire from the mains (on off switch) should connect to the remaining 0 or 120 terminal. Another wire from the mains (fuse holder) should connect to the other remaining 0 or 120 terminal. So you have a series circuit. One mains wire goes through the switch and into winding #1. The circuit then comes from the other end of winding # 1 and goes into winding #2 by way of the jumper. The circuit then comes from the other end of winding # 2 to the mains wire through the fuse.

What you need to look for is whether either of both of the 100 terminals are being used instead of the 120.

Now where this will get tricky is that there will be a connection from one of the 100 terminals for the fan. Tell me what you have and the wire colours. I will suggest what to do if anything.

Disregarding the fan connections, If both 100 taps are used instead of the 120 taps, the rig is wired for 200 V. If one 120 and one 100 tap are used, the rig is wired for 220 volts. If both 120 taps are used, the rig is wired for 240 and that is what you want.

Before changing anything tell me what you have. It is very important that these windings be kept in phase. If changes must be made, the jumper should not be removed from it's 0 tap. If it goes to a 100 tap instead of a 120 tap, then only that end of the jumper should be moved to the 120 tap on the same winding.

Odds are your manual will show connections in parallel for 120 Volts on the diagram. So don't let this confuse you.

In my owner's manual on page 29, Paragraph 6.7 see instructions for 240 V operation. I am guessing that you may be wired for 220 instead of 240 V operation.

Use should use a 4 amp fuse instead of a 6 amp with mains voltages over 200 v.

In the files section of this group is a article about a light bulb tester. " Save your transformer". Using this when testing the rig after changes will save the transformer from damage if a diode or capacitor that is faulty, or installed incorrectly. Also it will save the transformer if it gets mis wired or a solder bridge develops during soldering.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:45 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.
I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date: 12/11/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date: 12/12/06

[Non-text portions of this message have been removed]

11439. Substituting tube rectifiers with diodes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 21:13:46 UTC
From: n9wb
Topic: 11439 Message: 11439

Substituting tube rectifiers with diodes:

When replacing rectifier tubes with diodes, a resistor with a minimum value of 10 ohms and a rating of 1/2 watt should be installed in series with each string of diodes. This is usually placed in series with the transformer leads to the rectifier. This softens the in-rush current but more important, these will open if the diode string shorts saving the transformer.

For transmitters where more than one amp is involved, it may be necessary to adjust this resistor value accordingly.

If the increased voltage output is considered a stress problem, it seems that a resistor resembling the internal resistance of the original tube could be used. Another idea would be to find a zener diode that has a voltage equal to the desired voltage reduction and sufficient current rating. This could be placed in series with the diode string with the cathode toward the load. (output). This would provide a more regulated drop than resistors. However still use the 10 ohm 1/2 watt resistor in series with the transformer leads that feed the diodes for protection.

Vy 73, Walt N9WB

----- Original Message -----
From: Larry Shorthill
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 3:50 PM
Subject: [TS-520_820_530_830] Buck Transformer (or Boost) for less than optimum Mains Voltages

One of the most prolific and best technical discussion groups I ever engaged with (besides this one)is a group that worked on the R390A receiver. For those of you who are not familiar with this RX, it is a 500KHz (KCycle) to 32MHz (MCycle) general coverage RX originally developed by Collins for the military. Is was the 2nd Mark of the family and was all tubes. It was produced by numerous contractors from Collins and Motorola to (allegedly) Helena Rubenstein (though no one has ever reported seeing one from that company).

It was, and still is, a standard by which other RXs are judged and for a tube rig was famous for its stabilty and performance. It was extensively used in the Vietnam era and it is a piece of cold war legend. Several of these were on the ill fated Pueblo that N Korea captured. Rumor has it that these were to be destroyed in the event of capture (but the Pueblo crew didn't have the time) and that general in service, many were alleged to have been rigged with some type of explosive just in case of capture. I could go on but I need to get to the point of this topic.

The R390A is not for the faint of heart as a casual hobbiest RX since it is big, heavy, and dissipates a lot of heat. Two of the tubes in that beast are rectifiers and a Naval field upgrade was to remove them and replace them with Silicon rectifiers with a resultant rise in rectified voltages throughout the RX. This stressed all of the components with higher dissipation and higher voltages applied, but the Navy figured it was worth it.

Many R390A restorers are actually going back to the tube rectifiers to unstress their rigs but the extra heat generated from the rectifiers, in my mind isn't worth it. A better way to reduce the stress on the circuitry is to reduce the input voltages applied and some use variacs mounted along side their R390A. Another way is by using a voltage buck transformer either mounted inside the RX or as an adjunct to it.

For references on the transformer circuit used, just google 'R390a buck transformer' and a few references will come up. However, here is a good link to see the R390A in its glory, and at the bottom of the site is a link to compensate high voltages. Also, in case someone has a low voltage condition, the buck transformer can be configured in opposite polarity to boost the mains voltage.

http://www.r-390a.net/

If you think the Kenwood Hybrids are a gas, I recommend you keep your eye out for an R390A in reasonable condition. Your appreciation of tube electronics will go up exponentially once you start dabbling in these things. They make the TS-830 look like a piece of cake.

Best regards and Merry Christmas to everyone.

Larry
KC7ULI

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date: 12/12/06

[Non-text portions of this message have been removed]

11440. TS-520SE dial

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 20:47:32 UTC
From: k4tl
Topic: 11440 Message: 11440

Hi,

I'm looking for the inner VFO dial, part no. B20-0287-44, for a TS-520S
or TS-520SE. This is the dial that mounts right on the VFO.

Thanks & 73,Curt, K4TL

11441. Re: [TS-520_820_530_830] Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 21:51:28 UTC
From: Kevin & Natalia
Topic: 11337 Message: 11441

Hi,

Was just doing a search on EBay, I remember someone was looking for a HC10 Kenwood clock. There is one here, and still has a few days to run.

Kevin.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 09, 2006 1:02 AM
Subject: [TS-520_820_530_830] Clocks

Somebody mentioned clocks the other day. Check this site out. They make Kenwood clocks. I am not connected with this company.

http://www.clocksrus.org/

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11442. Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 21:53:24 UTC
From: Kevin & Natalia
Topic: 11411 Message: 11442

Walt,

Thanks for all your input.
All is now up and running. Only using a 20m inverted V until the new house is built, and I can get my tower up, and purchase a new beam. (In a rental at present).
Will look for you callsign.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 14, 2006 9:57 AM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

In summary, since the filament voltage is well within spec, I don't think you have any issues except for the need for more voltage head room on the filter caps. however it was good to visit possible other issues.

I didn't want to cause you to panic, but I wanted to be sure that you did not have a shorted turn on the transformer primary. Fortunately, you don't since the 12.6 is very well within spec. The 850 to 855 volts with load is not really that high. The additional increase under no load is probably due to the increased storage capacity of the 150 uf caps.

I would probably trust the Fluke over the multimeter in the rig. Choosing 680 K and a 100 K resistor that is very close to these values in tolerance should improve the multimeter accuracy. So when you get the new caps, you should have a good healthy rig. Be sure to use a 4 amp fast fuse for protection since your mains voltage is higher.

Hope to hear you on the air.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 3:13 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Walt,

Please see my replies inside your message.

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 8:37 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

OK,that eliminates one concern. What is the plate voltage when you are tuned up full tilt on CW ? Does it drop a lot? Also, you might want to check the screen voltage. This is available at a point labeled SG on the final board.

On the transformer there is a tap labeled 12.6 and a adjacent tap labeled 0. This 0 tap goes to chassis ground. With the tube filaments on what does the 12.6 tap read to ground on AC volts ?

KM) - The 12.6vAC no-load is reading 12.76v, under load when Send is pressed, it drops to 12.66vAC, so I would expect this reading to be okay.

There are a couple of things that concern me about this high plate voltage, some good, some bad. I will explain more when I see the above information.

Each of the filter capacitors have 470 K bleeder resistors across them. These should be checked or just replaced. If you check them, be sure to let the rig set for a while and then short across the capacitors before connecting your ohm meter. Putting a clip lead across each capacitor for a few minutes will fully discharge them. A charge in them may damage your ohm meter.

KM) - I replaced the resistors and the 2x .01uF caps that go across the filter capacitors. The orignal resistors were okay, but seeing how they were wrapped around the filters caps, I decided to just change everything for new. The .01 caps should not go, as I only had 1500v ones, so used these.

These serve two purposes. First, they slowly discharge the caps when power is off for personal safety. Second, they provide a bit of balance between the capacitors when there is a low load on it. If they went very high in value, I suppose that they might allow the unloaded voltage to go higher than normal. That is one of a couple of reasons that I am interested what the rig's HV meter reads on SSB no Audio compared to 100 watts or so of CW output.

KM) - Checking the HV meter, and I also used my Fluke.

Under no-load, the fluke was reading around 915vDC, under load, with send switch on, this dropped to 855vDC, the meter was reading around 850v. So again, this appears to be operating correctly.

If the high voltage is just a bit high and the capacitors are rated at a high enough voltage to deal with it, that in and of itself will not be a problem. It will just give you a bit more power. However, if the filaments are running high and the 14 volt buss is running high, that might be troublesome.

Guess then, with the information you have supplied, and the information returned from your questions, is that the radio appears to be operating as it should. Voltages are within required specs. In my case, the filter caps were the reason for my non-working TS-830.

Again, Thanks for you continual help and patance over this matter.

An excelent Elmer!

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 2:56 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

Hi Walt,

I was thinking after I sent my message that I should of put what tap setting I had.
Walt, in my case I have it set in series for 240v, (120+120). The radio came from Japan in this configuration, and the switch in the back is for 230/240v, no 110v for us. And it is set on 240, with a stop plate to prevent easy change.
So no changes are required within the voltage supply.

Thanks for your input Walt.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 11:57 PM
Subject: Re: [TS-520_820_530_830] TS-830S 236 volt mains.

You should check to see if your transformer is set correctly. I don't believe that your TS-830 has a 120/220 switch on the rear panel. It is possible that the primary on the power transformer is wired wrong. On the primary side of the power transformer you will see two sets of taps labeled as follows: 120, 100, and 0.

With your mains voltage the transformer should be set as follows:

The windings are connected in series and in phase. There should a jumper between the 0 terminal on one winding and the 120 terminal on the other.

Then one wire from the mains (on off switch) should connect to the remaining 0 or 120 terminal. Another wire from the mains (fuse holder) should connect to the other remaining 0 or 120 terminal. So you have a series circuit. One mains wire goes through the switch and into winding #1. The circuit then comes from the other end of winding # 1 and goes into winding #2 by way of the jumper. The circuit then comes from the other end of winding # 2 to the mains wire through the fuse.

What you need to look for is whether either of both of the 100 terminals are being used instead of the 120.

Now where this will get tricky is that there will be a connection from one of the 100 terminals for the fan. Tell me what you have and the wire colours. I will suggest what to do if anything.

Disregarding the fan connections, If both 100 taps are used instead of the 120 taps, the rig is wired for 200 V. If one 120 and one 100 tap are used, the rig is wired for 220 volts. If both 120 taps are used, the rig is wired for 240 and that is what you want.

Before changing anything tell me what you have. It is very important that these windings be kept in phase. If changes must be made, the jumper should not be removed from it's 0 tap. If it goes to a 100 tap instead of a 120 tap, then only that end of the jumper should be moved to the 120 tap on the same winding.

Odds are your manual will show connections in parallel for 120 Volts on the diagram. So don't let this confuse you.

In my owner's manual on page 29, Paragraph 6.7 see instructions for 240 V operation. I am guessing that you may be wired for 220 instead of 240 V operation.

Use should use a 4 amp fuse instead of a 6 amp with mains voltages over 200 v.

In the files section of this group is a article about a light bulb tester. " Save your transformer". Using this when testing the rig after changes will save the transformer from damage if a diode or capacitor that is faulty, or installed incorrectly. Also it will save the transformer if it gets mis wired or a solder bridge develops during soldering.

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 1:45 AM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

I have checked our power supply to the house, and I get 236vAC, which is within the specs for our location. NZ main voltage is 230v, but I have never seen it actually be that.
I am using a Fluke 23 , as well as a Chi DV Meter, both read within 1v of each other, so I guess they are reading about the same. Both meters are speced for 1000v, and putting the leads across the HV I got 915, and 915.6v.
I could borrow one of the companies meters where I work, being a Steel Mill they have the heavy equipment to use and monitor.

I will change the diodes out, and I ordered new 500v capacitors to get my safety margin back up there. The radio is removed from mains until I get them.

Between the front panel meter and the DVM, I am happy with the readings from both, taking into account the front panel meter is not down to the last fraction of a volt.

Thanks

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bill Scurlock
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 12, 2006 4:00 PM
Subject: Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Kevin.

You have gotten some good comments back on the High Voltage. I had the same problem as Ron - high line voltage to my house. You definitely need to measure your line voltage so you know what you are dealing with. I use a filament transformer connected in the "buck" mode to reduce my line voltage down to 115VAC for all my old Kenwood and Collins equipment. I just went and checked my 520 and 830 to see what high voltage they indicated on their meters with 115 VAC input. This was done in the SSB mode with the load being the tube idling current of about 50Ma. One indicated 840vdc and the other indicated 850vdc. Without the reduction in my line voltage, they would be running about 900vdc.

If you want to really know what the voltage level is, you will need to use an accurate DVM and make measurements inside the radio, or follow Walt's advice and change out the resistors in the metering circuit, because resistor values do change with age. Mike also raises a valid concern about exceeding the voltage rating of the capacitors.

73, Bill, K5GCW
----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 11, 2006 12:08 PM
Subject: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Hi All,

Sorry to be here again, on the same area, the HV line.

I had got my radio back up and running after replacing the Filter capacitors as advised by this group. This worked out, and the radio is back operating.
I have however another concern. The HV line, from the manual, and by this group say the HV line should be 800v. Mine is putting out 915v. It is working all right, get it to load good, and I get good power out, by the external meter reading.
Am I looking too much into this? Or is this too high, and I have another problem? I can't see any control to lower this voltage.

Again thanks in advance.

Kevin, ZL1KFM

Get Skype and call me for free.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.15/581 - Release Date: 12/9/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.16/582 - Release Date: 12/11/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date: 12/12/06

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11443. Line voltage to shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 22:03:33 UTC
From: Rich Jones
Topic: 11443 Message: 11443

My line voltage to the shack is 123.9 volts. Are you saying I am putting my TS520 and 530 in jeprody? Your advise is very much appreciated. Thank you, Rich KG7FS in Michigan

---

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11444. Re: [TS-520_820_530_830] TS-830S - HV, What is the Actual Voltage

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 22:15:21 UTC
From: Graham Ridgeway
Topic: 11389 Message: 11444

On Tue, 12 Dec 2006 23:57:21 -0000, "Another Old Codger"
<clattering.ford@btinternet.com> wrote:

>I've scanned the Schematic, Files says it's too big so it's a jpeg in
>photos, you can't miss it. I'll type the text in to a post tomorrow,
>it's not very long.
>
>I couldn't find it in the 1946 Handbook, probably not searching right,
>I am very old ;-)
>
>73 Ron G8URU.
>

It doesn't seem to be in all of them Old Pal. Not in the '88 or'92.
I can't see it in any of the RSGB 'Handbooks' although I do recall it
somewhere in 'Tech Topics' from waaaaaay back.

The important bit is that the Secondary rating of the Tranny MUST be
greater than the expected load -, so for the purposes outlined here -
at least 5 Amps.

It [the tranny] does not of course have to be of a fixed voltage - the
'42 edition does in fact say a tapped tranny - which could give quite
a small, and variable 'adjustment' along the lines of a cheap Variac.

73 Graham M5AAV

11445. Re: Line voltage to shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 22:17:17 UTC
From: carnage_59
Topic: 11443 Message: 11445

No, you're not. I've run 520s, 820s and my three 830S anywhere from 100 volts to 140 volts and they don't have a problem.

--- In TS-520_820_530_830@yahoogroups.com, Rich Jones <michjonezee@...> wrote:
>
> My line voltage to the shack is 123.9 volts. Are you saying I am putting my TS520 and 530 in jeprody? Your advise is very much appreciated. Thank you, Rich KG7FS in Michigan
>
> ---------------------------------
> Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.
>
> [Non-text portions of this message have been removed]
>

11446. Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 21:53:23 UTC
From: boat.anchor
Topic: 11446 Message: 11446

In with some bins of parts I picked up are a number of filters. I am curious if they would be of any use to me in my Kenwood Hybrids or should I pass them on to someone who could use them. They are as follows:

Kristall-Verarbeitung
Neckarbischofsheim-GMBH
QUARZFILTER
One XF-9C and one XF-9B10
These are both 9Mhz filters.

MuRata Ceramic Filter Type CFM-455E
There are 5 of these each labelled with a number that I can't find any reference to.
0049, 3412, 3497, 3514, 5802

I do have the data sheets available in PDF if that would assist in soliciting advice but I am completely at a loss to understand what I am looking at. There is not enough space for me to upload to Files.

Thanks very much
Barry
VA7GEM

11447. Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 21:58:03 UTC
From: boat.anchor
Topic: 11446 Message: 11447

There is another component the same size and shape as the muRata filters that is labelled
MCL RAY-3 OC 383

Any suggestions on this. There is some Collins parts in this assortment if that helps.

thanks
Barry
VA7GEM

11448. Re: Substituting tube rectifiers with diodes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 23:36:27 UTC
From: Larry Shorthill
Topic: 11439 Message: 11448

Walt,

Yes, limiting inrush current is something to think about in these old rigs and a filament heated rectifier would certainly do that. Rectification would not occur until the rectifier filament got hot and that would take 30 seconds or so. Resistors in series with the diodes would do this as well, but would negate some of the heat reducing benefits of moving over to the Silicon rectifiers.

In the Naval order for the Silicon rect. modification to the R390A, they did not put a resistor in series with the two rectifier diodes, but they did at one time have a couple of voltage dropping power resistors added into the audio module to limit the high voltage in the box. The problem with that scheme was that the audio modules ran hot anyway and the extra heat just cooked the audio section. The other problem was in substituting modules in inventory. As long as all the power supply modules were modified for the silicon rectifier, then they would work with all audio modules in inventory. However, if an audio module had been modified with the extra power resistors, then they would only work adequately with just the modified power modules. Quite a juggling act it would seem.

Oh, and one other thing about this mod from the Navy -- they had the tech doing the mod crush the tube socket skirt so a tube couldn't be installed in that position. Backing out this mod requires installing two new tube sockets unless the socket skirt could be bent back into reasonable shape.

Other schemes such as installing dropping zeners may keep the voltage stress down but the heat is still dissipated. Lowering the line voltage by 5 to 10 volts or so will keep the heat out and it will keep the voltage stress lowered as well.

The R390A internet group spent many hours of discussion about whether the mods should be backed out so that inrush wouldn't cause an issue, so that filiments would heat slowly, etc. The bottom line was that everyone had a different standard from complete NOS restorations to those that modified at will to remove the rectifiers and filament ballasting tubes, etc. Most of us were content to leave the basic modules the way they were originally designed, modify them with improved capacitors (mostly Sprague Orange Drops, or other high quality Plastic film types)so they would work reliably, and install devices that plugged in the place of the rectifiers and the ballast tubes. In this way they could easily work either way with minimal cosmetic changes. Extra holes and cutouts were discouraged, etc. for future buyers and historical reasons. Bringing an R390A alive with a

variac is an inherently slow, current limiting approach, but there are other ways, such as PTC resistors installed inside the chassis in the line leads, etc. to limit inrush without detracting much from originality.

By removing the ballast and rectifiers and having other means of inrush and voltage limiting, it is possible to take quite a few watts out of the box. With small muffin fans to move and cool air and modern capacitors, these old radios are likely to see many years more service. Many of these ideas and techniques can easily be applied to Kenwood hybrids and to some of our other radios for that matter. I really like the idea of installing small muffin fans or small CPU cooling fans in order to cool areas that don't get much airflow. Heat is the enemy of most electronics. Lessons learned from other groups (and I encourage everyone to read through many of the old message threads on the R390A, etc.) are just as valuable here.

Seeing the buck transformer written about and hearing that many didn't know what it did brought back a lot or rememberances of working on the R390A projects.

Thanks for all your inputs Walt. This is by far the best Yahoo forum by far that I subscribe to.

Cheers
Larry
KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Substituting tube rectifiers with diodes:
>
> When replacing rectifier tubes with diodes, a resistor with a minimum value of 10 ohms and a rating of 1/2 watt should be installed in series with each string of diodes. This is usually placed in series with the transformer leads to the rectifier. This softens the in-rush current but more important, these will open if the diode string shorts saving the transformer.
>
> For transmitters where more than one amp is involved, it may be necessary to adjust this resistor value accordingly.
>
> If the increased voltage output is considered a stress problem, it seems that a resistor resembling the internal resistance of the original tube could be used. Another idea would be to find a zener diode that has a voltage equal to the desired voltage reduction and sufficient current rating. This could be placed in series with the diode string with the cathode toward the load. (output). This would provide a more regulated drop than resistors. However still use the 10 ohm 1/2 watt resistor in series with the transformer leads that feed the diodes for protection.

>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Larry Shorthill
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, December 13, 2006 3:50 PM
> Subject: [TS-520_820_530_830] Buck Transformer (or Boost) for
less than optimum Mains Voltages
>
>
> One of the most prolific and best technical discussion groups I
ever
> engaged with (besides this one)is a group that worked on the
R390A
> receiver. For those of you who are not familiar with this RX, it
is
> a 500KHz (KCycle) to 32MHz (MCycle) general coverage RX
originally
> developed by Collins for the military. Is was the 2nd Mark of the
> family and was all tubes. It was produced by numerous contractors
> from Collins and Motorola to (allegedly) Helena Rubenstein
(though no
> one has ever reported seeing one from that company).
>
> It was, and still is, a standard by which other RXs are judged
and
> for a tube rig was famous for its stabilty and performance. It
was
> extensively used in the Vietnam era and it is a piece of cold war
> legend. Several of these were on the ill fated Pueblo that N
Korea
> captured. Rumor has it that these were to be destroyed in the
event
> of capture (but the Pueblo crew didn't have the time) and that
> general in service, many were alleged to have been rigged with
some
> type of explosive just in case of capture. I could go on but I
need
> to get to the point of this topic.
>
> The R390A is not for the faint of heart as a casual hobbiest RX
since
> it is big, heavy, and dissipates a lot of heat. Two of the tubes
in
> that beast are rectifiers and a Naval field upgrade was to remove
> them and replace them with Silicon rectifiers with a resultant
rise
> in rectified voltages throughout the RX. This stressed all of the
> components with higher dissipation and higher voltages applied,

```
but
> the Navy figured it was worth it.
>
> Many R390A restorers are actually going back to the tube
rectifiers
> to unstress their rigs but the extra heat generated from the
> rectifiers, in my mind isn't worth it. A better way to reduce the
> stress on the circuitry is to reduce the input voltages applied
and
> some use variacs mounted along side their R390A. Another way is
by
> using a voltage buck transformer either mounted inside the RX or
as
> an adjunct to it.
>
> For references on the transformer circuit used, just
google 'R390a
> buck transformer' and a few references will come up. However,
here
> is a good link to see the R390A in its glory, and at the bottom
of
> the site is a link to compensate high voltages. Also, in case
> someone has a low voltage condition, the buck transformer can be
> configured in opposite polarity to boost the mains voltage.
>
> http://www.r-390a.net/
>
> If you think the Kenwood Hybrids are a gas, I recommend you keep
your
> eye out for an R390A in reasonable condition. Your appreciation
of
> tube electronics will go up exponentially once you start dabbling
in
> these things. They make the TS-830 look like a piece of cake.
>
> Best regards and Merry Christmas to everyone.
>
> Larry
> KC7ULI
>
>
>
>
>
>
> ---------------------------------------------------------------------
----------
>
>
> No virus found in this incoming message.
```

> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date:
12/12/06
>
>
> [Non-text portions of this message have been removed]
>

11449. Re: Group TUBE link failure

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-13 23:59:08 UTC
From: Gordon
Topic: 11416 Message: 11449

My pleasure Walt.

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Thank You Gordon!
> ----- Original Message -----
> From: N6WK
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 12, 2006 1:07 PM
> Subject: Re: [TS-520_820_530_830] Group TUBE link failure
>
>
> I fixed it and pointed it to a known good link.
>
> 73,
> Gordon
>

11450. Re: [TS-520_820_530_830] Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 00:33:10 UTC
From: Thomas Carney
Topic: 11446 Message: 11450

The 4 digit numbers on the CFM455E filters are the serial numbers.

"boat.anchor" <boat.anchor@...> wrote:
In with some bins of parts I picked up are a number of filters. I am curious if they would be of any use to me in my Kenwood Hybrids or should I pass them on to someone who could use them. They are as follows:

Kristall-Verarbeitung
Neckarbischofsheim-GMBH
QUARZFILTER
One XF-9C and one XF-9B10
These are both 9Mhz filters.

MuRata Ceramic Filter Type CFM-455E
There are 5 of these each labelled with a number that I can't find any reference to.
0049, 3412, 3497, 3514, 5802

I do have the data sheets available in PDF if that would assist in soliciting advice but I am completely at a loss to understand what I am looking at. There is not enough space for me to upload to Files.

Thanks very much
Barry
VA7GEM

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11451. Re: [TS-520_820_530_830] Line voltage to shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 00:59:38 UTC
From: Another Old Codger
Topic: 11443 Message: 11451

(The Technical Manual shows 110V or 120V), if your rigs are set on 110V, then you have 10% over volts, not a good idea for lamps and filaments. If they are set on 120V then it's a small overload. Thirty years in Broadcasting persuaded me and my fellow engineers that slightly underrun gear was more reliable than overrun.

In the retail trade you some times get a set that had all it's tolerances set in one way, so you get a 'sparkling' but unreliable TV, or a 'dull' but reliable TV. We used to try to get the 'sparkling' set in to the Fringe Areas where we needed all the gain, the pay off was we would be visiting that set more often!

Have you got a 12V txformer in your junk box with about 5 to 6 amps output, that could feed both rigs. You only need one txformer to feed the shack, providing it's secondary has a high enough current rating.

My son-in-law is and engineer for the national power distribution company, you should see the buck and boost txformers that they use. The size of a large house, completely automated, (until some thing goes wrong). They can be upto 400 KV, and carrying Giga-watts.

73 Ron G8URU

----- Original Message -----
From: "Rich Jones" <michjonezee@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, December 13, 2006 10:03 PM
Subject: [TS-520_820_530_830] Line voltage to shack

My line voltage to the shack is 123.9 volts. Are you saying I am putting my TS520 and 530 in jeprody? Your advise is very much appreciated. Thank you, Rich KG7FS in Michigan

---
Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11452. Microphone wiring

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 01:19:39 UTC
From: court
Topic: 11443 Message: 11452

Can someone please tell me what colour wiring goes where , i want to wire a Yaesu MD-1 to a kenwood TS-830 ,obviously it needs to be for a 4 pin plug, your urgent help out there would be appreciated
Cheers

11453. Re: [TS-520_820_530_830] Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 01:43:21 UTC
From: John Harp
Topic: 11337 Message: 11453

Greetings to both and thank you for remembering me. I posted back about the forth of this month and then found the clock on ebay and bid. I won the bid and it's on it's way here now via USPS.

At the time I won the bid and paid for it I made a second announcement about finding the clock as our group prefers it be handled properly.

This clock is an accessory to the TS-520 but also to other tube hybrids, thus a match to a station layout. I build one piece at a time basically and have been planning this layout for years.

The clock was in very good shape with few scratches or marks.

Kevin & Natalia <sparcnz@...> wrote:
Hi,

Was just doing a search on EBay, I remember someone was looking for a HC10 Kenwood clock. There is one here, and still has a few days to run.

Kevin.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 09, 2006 1:02 AM
Subject: [TS-520_820_530_830] Clocks

Somebody mentioned clocks the other day. Check this site out. They make Kenwood clocks. I am not connected with this company.

http://www.clocksrus.org/

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

[Non-text portions of this message have been removed]

11454. Re: [TS-520_820_530_830] Buck Transformer (or Boost) for less than optimum Mains Voltages

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 02:03:30 UTC
From: John Harp
Topic: 11437 Message: 11454

I used a r-390a in my high school amateur radio club. I remember how it performed. amazingly well. We had it rack mounted. I went thru other radios then but found nothing like the r-390a. Till that point ,y favorate was the SX-99. After that the r-390a stayed top of my list till I got my 830, which I've had for years.

The front panel has an amazing outlay of gears behind it and to use one is the feel that nothing else of those times comes close.

Band swictching was just as amazing as the tuning of stations.

Thanks for the reminder.

Larry Shorthill <rfssi-shorthill@...> wrote:
One of the most prolific and best technical discussion groups I ever engaged with (besides this one)is a group that worked on the R390A receiver. For those of you who are not familiar with this RX, it is a 500KHz (KCycle) to 32MHz (MCycle) general coverage RX originally developed by Collins for the military. Is was the 2nd Mark of the family and was all tubes. It was produced by numerous contractors from Collins and Motorola to (allegedly) Helena Rubenstein (though no one has ever reported seeing one from that company).

It was, and still is, a standard by which other RXs are judged and for a tube rig was famous for its stabilty and performance. It was extensively used in the Vietnam era and it is a piece of cold war legend. Several of these were on the ill fated Pueblo that N Korea captured. Rumor has it that these were to be destroyed in the event of capture (but the Pueblo crew didn't have the time) and that general in service, many were alleged to have been rigged with some type of explosive just in case of capture. I could go on but I need to get to the point of this topic.

The R390A is not for the faint of heart as a casual hobbiest RX since it is big, heavy, and dissipates a lot of heat. Two of the tubes in that beast are rectifiers and a Naval field upgrade was to remove them and replace them with Silicon rectifiers with a resultant rise in rectified voltages throughout the RX. This stressed all of the components with higher dissipation and higher voltages applied, but the Navy figured it was worth it.

Many R390A restorers are actually going back to the tube rectifiers to unstress their rigs but the extra heat generated from the rectifiers, in my mind isn't worth it. A better way to reduce the stress on the circuitry is to reduce the input voltages applied and some use variacs mounted along side their R390A. Another way is by

using a voltage buck transformer either mounted inside the RX or as an adjunct to it.

For references on the transformer circuit used, just google 'R390a buck transformer' and a few references will come up. However, here is a good link to see the R390A in its glory, and at the bottom of the site is a link to compensate high voltages. Also, in case someone has a low voltage condition, the buck transformer can be configured in opposite polarity to boost the mains voltage.

http://www.r-390a.net/

If you think the Kenwood Hybrids are a gas, I recommend you keep your eye out for an R390A in reasonable condition. Your appreciation of tube electronics will go up exponentially once you start dabbling in these things. They make the TS-830 look like a piece of cake.

Best regards and Merry Christmas to everyone.

Larry
KC7ULI

Any questions? Get answers on any topic at Yahoo! Answers. Try it now.

[Non-text portions of this message have been removed]

11455. Re: [TS-520_820_530_830] Microphone wiring

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 02:38:35 UTC
From: Ken Winterling
Topic: 11443 Message: 11455

Court,

I attached a schematic for wiring a MD-1 to a Kenwood 4 pin rig like the TS-830S. I also attached a schematic of the MD-1. Since the reflector will strip the attachments I also Cc'd you so you should get my message direct with the attachments. You didn't specify which MD-1 you have (MD-1B8 or MD-1C8) but the wiring is the same.

Let me know if you have any problem receiving the attachments or if you have additional questions.

Ken, WA2LBI

On 12/13/06, court <cdr_software@...> wrote:
>
> Can someone please tell me what colour wiring goes where , i want to
> wire a Yaesu MD-1 to a kenwood TS-830 ,obviously it needs to be for a
> 4 pin plug, your urgent help out there would be appreciated
> Cheers
>

[Non-text portions of this message have been removed]

11456. Re: [TS-520_820_530_830] Re: Substituting tube rectifiers with diodes.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 06:58:19 UTC
From: n9wb
Topic: 11439 Message: 11456

I would like to add another comment.

It is my personal belief that all equipment should be turned off when not in use. for example, overnight or when leaving home as opposed to leaving the rig for an hour of so for dinner or a phone call. this is particularly important with older gear. Among many other things, this will reduce heat damage.

Some people will argue that gear is best left on 24/7. I just cannot agree with that. And particularly not with vintage gear.

Vy 73, Walt N9WB

----- Original Message -----
From: Larry Shorthill
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 6:36 PM
Subject: [TS-520_820_530_830] Re: Substituting tube rectifiers with diodes.

Walt,

Yes, limiting inrush current is something to think about in these old rigs and a filament heated rectifier would certainly do that. Rectification would not occur until the rectifier filament got hot and that would take 30 seconds or so. Resistors in series with the diodes would do this as well, but would negate some of the heat reducing benefits of moving over to the Silicon rectifiers.

In the Naval order for the Silicon rect. modification to the R390A, they did not put a resistor in series with the two rectifier diodes, but they did at one time have a couple of voltage dropping power resistors added into the audio module to limit the high voltage in the box. The problem with that scheme was that the audio modules ran hot anyway and the extra heat just cooked the audio section. The other problem was in substituting modules in inventory. As long as all the power supply modules were modified for the silicon rectifier, then they would work with all audio modules in inventory. However, if an audio module had been modified with the extra power resistors, then they would only work adequately with just the modified power modules. Quite a juggling act it would seem.

Oh, and one other thing about this mod from the Navy -- they had the tech doing the mod crush the tube socket skirt so a tube couldn't be installed in that position. Backing out this mod requires installing two new tube sockets unless the socket skirt could be bent back into reasonable shape.

Other schemes such as installing dropping zeners may keep the voltage stress down but the heat is still dissipated. Lowering the line voltage by 5 to 10 volts or so will keep the heat out and it will keep the voltage stress lowered as well.

The R390A internet group spent many hours of discussion about whether the mods should be backed out so that inrush wouldn't cause an issue, so that filiments would heat slowly, etc. The bottom line was that everyone had a different standard from complete NOS restorations to those that modified at will to remove the rectifiers and filament ballasting tubes, etc. Most of us were content to leave the basic modules the way they were originally designed, modify them with improved capacitors (mostly Sprague Orange Drops, or other high quality Plastic film types)so they would work reliably, and install devices that plugged in the place of the rectifiers and the ballast tubes. In this way they could easily work either way with minimal cosmetic changes. Extra holes and cutouts were discouraged, etc. for future buyers and historical reasons. Bringing an R390A alive with a variac is an inherently slow, current limiting approach, but there are other ways, such as PTC resistors installed inside the chassis in the line leads, etc. to limit inrush without detracting much from originality.

By removing the ballast and rectifiers and having other means of inrush and voltage limiting, it is possible to take quite a few watts out of the box. With small muffin fans to move and cool air and modern capacitors, these old radios are likely to see many years more service. Many of these ideas and techniques can easily be applied to Kenwood hybrids and to some of our other radios for that matter. I really like the idea of installing small muffin fans or small CPU cooling fans in order to cool areas that don't get much airflow. Heat is the enemy of most electronics. Lessons learned from other groups (and I encourage everyone to read through many of the old message threads on the R390A, etc.) are just as valuable here.

Seeing the buck transformer written about and hearing that many didn't know what it did brought back a lot or rememberances of working on the R390A projects.

Thanks for all your inputs Walt. This is by far the best Yahoo forum by far that I subscribe to.

Cheers
Larry
KC7ULI

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Substituting tube rectifiers with diodes:
>
> When replacing rectifier tubes with diodes, a resistor with a minimum value of 10 ohms and a rating of 1/2 watt should be installed in series with each string of diodes. This is usually placed in

series with the transformer leads to the rectifier. This softens the in-rush current but more important, these will open if the diode string shorts saving the transformer.
>
> For transmitters where more than one amp is involved, it may be necessary to adjust this resistor value accordingly.
>
> If the increased voltage output is considered a stress problem, it seems that a resistor resembling the internal resistance of the original tube could be used. Another idea would be to find a zener diode that has a voltage equal to the desired voltage reduction and sufficient current rating. This could be placed in series with the diode string with the cathode toward the load. (output). This would provide a more regulated drop than resistors. However still use the 10 ohm 1/2 watt resistor in series with the transformer leads that feed the diodes for protection.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: Larry Shorthill
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, December 13, 2006 3:50 PM
> Subject: [TS-520_820_530_830] Buck Transformer (or Boost) for less than optimum Mains Voltages
>
>
> One of the most prolific and best technical discussion groups I ever
> engaged with (besides this one)is a group that worked on the R390A
> receiver. For those of you who are not familiar with this RX, it is
> a 500KHz (KCycle) to 32MHz (MCycle) general coverage RX originally
> developed by Collins for the military. Is was the 2nd Mark of the
> family and was all tubes. It was produced by numerous contractors
> from Collins and Motorola to (allegedly) Helena Rubenstein (though no
> one has ever reported seeing one from that company).
>
> It was, and still is, a standard by which other RXs are judged and
> for a tube rig was famous for its stabilty and performance. It was
> extensively used in the Vietnam era and it is a piece of cold war
> legend. Several of these were on the ill fated Pueblo that N Korea
> captured. Rumor has it that these were to be destroyed in the event

> of capture (but the Pueblo crew didn't have the time) and that
> general in service, many were alleged to have been rigged with
some
> type of explosive just in case of capture. I could go on but I
need
> to get to the point of this topic.
>
> The R390A is not for the faint of heart as a casual hobbiest RX
since
> it is big, heavy, and dissipates a lot of heat. Two of the tubes
in
> that beast are rectifiers and a Naval field upgrade was to remove
> them and replace them with Silicon rectifiers with a resultant
rise
> in rectified voltages throughout the RX. This stressed all of the
> components with higher dissipation and higher voltages applied,
but
> the Navy figured it was worth it.
>
> Many R390A restorers are actually going back to the tube
rectifiers
> to unstress their rigs but the extra heat generated from the
> rectifiers, in my mind isn't worth it. A better way to reduce the
> stress on the circuitry is to reduce the input voltages applied
and
> some use variacs mounted along side their R390A. Another way is
by
> using a voltage buck transformer either mounted inside the RX or
as
> an adjunct to it.
>
> For references on the transformer circuit used, just
google 'R390a
> buck transformer' and a few references will come up. However,
here
> is a good link to see the R390A in its glory, and at the bottom
of
> the site is a link to compensate high voltages. Also, in case
> someone has a low voltage condition, the buck transformer can be
> configured in opposite polarity to boost the mains voltage.
>
> http://www.r-390a.net/
>
> If you think the Kenwood Hybrids are a gas, I recommend you keep
your
> eye out for an R390A in reasonable condition. Your appreciation
of
> tube electronics will go up exponentially once you start dabbling
in
> these things. They make the TS-830 look like a piece of cake.

>
> Best regards and Merry Christmas to everyone.
>
> Larry
> KC7ULI
>
>
>
>
>
>
> ----------
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date:
12/12/06
>
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date: 12/12/06

[Non-text portions of this message have been removed]

11457. Kenwood TS-830 Front Panel

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 07:18:00 UTC
From: court
Topic: 11457 Message: 11457

Hello folks,'
wondering if anyone out there has a MINT condition front panel they no longer need, Im trying to refurbish my old radio , it must not have any wear on it or marks of any kind.
Maybe someone has a dead TS-830 around somewhere it would be nice to obtail one.
Thanks in advance

cheers
Courtney

11458. TS-530S manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 05:40:12 UTC
From: martin
Topic: 11443 Message: 11458

Hi All. IS there anyone who has the Operation manual for the TS-530 (NOT the TS-530SP/D) in electronic format? Or does someone know where I can download this manual? I have the TS-530SP/D manual, and the service manual that covers all three (TS-530S, 530SP, and 530D). I would very much like to have the Operation manual for the TS-530S. If someone has the manual in good condition, and could scan it in high res, I would grateful. Best option would probably be to write it to CD-R disk and send it through the mail. I will gladly pay for the cost of the disk, padded envelope, paper disk envelope and first class postage. This should run about $3.00.

Thanks.

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

11459. Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 05:38:00 UTC
From: the_tick_lives
Topic: 6438 Message: 11459

Well, the good news is that I found the connectors. They didn't have the cable shells, but did have a number of them, and they were here locally in St. Louis! So now all I have to do is get the soldering iron out!

How critical is having the signal line from the radio to the VFO sheilded. I have not looked at the schematic to see what the frequency that is carried over the cable.

Worst case I'll use some microphone cable for the signal and another cable for the other leads.

Allen

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Allen,
>
> This is John-KA3DPW. What VFO are you looking for a cable for?
>
> I just bought one on ebay for my TS-830 and I see them every so often there. they are a straight thru cabling as I understand. I know a couple of sources to these in searches that find these occasionally. I got this one as a back up for my equipment. I like to keep extras when it's feasible. I get them for about 20 or 25 US dollars.
>
> VFO's appear without cables several times a year I got one that way and had to get a cable separately.
>
> VFO and amplifier relay cables show up on ebay, you just have to watch over time. The ones that are less often found are the transverter cables. the connectors at the transverter unit itself are something you would more likely have to make a substitute yourself.
>
> Now 530 and 830 are more common than for say the 520.
>
> So fill me in on what your looking for.
>
> the_tick_lives <the_tick_lives@...> wrote:
> Ok so reading some of the other posts it seems that the VFO cable is
> almost impossible to find. Does anyone have a source for the
> connectors to build one?
>

> I too have aqquired a VFO with no cable. I understand the 9 pin
tube
> socket was a popular plug used in Japan but never quite made it
> successfully here.
>
> I've tried eBAY, lots of the tube parts/accessories places, Surplus
> Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
> luck. I can find the octals, but not the 9 pin.
>
> The problem is the one that comes on the back of the radio is also
> missing. I have to read the manual again to see what that jumper
> does but I can't even use the radio until I find at least 1.
>
> Any help is appreciated!
>
> Thanks!
> Allen
> N0GOM
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11460. Re: [TS-520_820_530_830] Line voltage to shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 08:18:02 UTC
From: n9wb
Topic: 11443 Message: 11460

With the TS-520 on page 51 of the service manual is the transformer wiring. Most likely it is wired for 120V. So you are probably OK with 124 V. However, if you ever decide to run it on 240 V (248 volts) You want to be sure it is wired for 240 V and not 220 V.

A good check is to measure the filament voltage with the filaments on. You need not be transmitting. Find the transformer tap labeled 12.4 or 12.6. Measure the AC volts from this tap to chassis ground. If it is below 12.8 you are OK. You can even fudge a bit more.

With the TS-530, on page 35 of the operating manual you will find the transformer wiring. It is probably wired for 120V. However the 220 side is probably wired for 220 and not 240. If you decide to run it on 240 V (248 in your case) be sure that the transformer is wired for 240. Again, with the filaments on measure the AC volts between the transformer tap labeled 12.4 or 12.6 and ground. If it is less than 12.8 you are OK.

If you need to change taps and need assistance, let us know. Also, let us know what filament voltage readings you are getting.

Vy 73, Walt N9WB

----- Original Message -----
From: Rich Jones
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 13, 2006 5:03 PM
Subject: [TS-520_820_530_830] Line voltage to shack

My line voltage to the shack is 123.9 volts. Are you saying I am putting my TS520 and 530 in jeprody? Your advise is very much appreciated. Thank you, Rich KG7FS in Michigan

---
Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date: 12/12/06

[Non-text portions of this message have been removed]

11461. Re: [TS-520_820_530_830] Line voltage to shack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 08:49:38 UTC
From: Another Old Codger
Topic: 11443 Message: 11461

Sorry, sorry I forgot that you are 9 Amp+ per Kilowatt, not 4.2 Amp of our supply, so that line should read 10 to 12 Amps.

Blimey, you must have some copper in your house wiring!

Ron G8URU

----- Original Message -----
From: "Another Old Codger" <clattering.ford@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, December 14, 2006 12:59 AM
Subject: Re: [TS-520_820_530_830] Line voltage to shack

(The Technical Manual shows 110V or 120V), if your rigs are set on 110V, then you have 10% over volts, not a good idea for lamps and filaments. If they are set on 120V then it's a small overload. Thirty years in Broadcasting persuaded me and my fellow engineers that slightly underrun gear was more reliable than overrun.

In the retail trade you some times get a set that had all it's tolerances set in one way, so you get a 'sparkling' but unreliable TV, or a 'dull' but reliable TV. We used to try to get the 'sparkling' set in to the Fringe Areas where we needed all the gain, the pay off was we would be visiting that set more often!

Have you got a 12V txformer in your junk box with about 5 to 6 amps output, that could feed both rigs. You only need one txformer to feed the shack, providing it's secondary has a high enough current rating.

My son-in-law is and engineer for the national power distribution company, you should see the buck and boost txformers that they use. The size of a large house, completely automated, (until some thing goes wrong). They can be upto 400 KV, and carrying Giga-watts.

73 Ron G8URU

11462. Re: [TS-520_820_530_830] Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 09:30:46 UTC
From: n9wb
Topic: 6438 Message: 11462

If this is a VFO for a TS-830, pin 1 should definitely be shielded. This pin is the VFO RF output.

This VFO sends 5.4 to 6.1 MHz through pin 1.

The shield itself should connect to pin 7 at each end. I would recommend miniature coax such as UG-174. A source of miniature coax is a olde cell phone remote antenna. The other wires can be something you can find and do not need to be shielded.

A microphone cable will probably also work if it has a good shield. the impedance is not critical. A straight multiple conductor mike cable with a good shield around an individual wire would work neat.

Vy 73, Walt N9WB

----- Original Message -----
From: the_tick_lives
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 14, 2006 12:38 AM
Subject: [TS-520_820_530_830] Re: VFO cable

Well, the good news is that I found the connectors. They didn't have the cable shells, but did have a number of them, and they were here locally in St. Louis! So now all I have to do is get the soldering iron out!

How critical is having the signal line from the radio to the VFO sheilded. I have not looked at the schematic to see what the frequency that is carried over the cable.

Worst case I'll use some microphone cable for the signal and another cable for the other leads.

Allen

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Allen,
>
> This is John-KA3DPW. What VFO are you looking for a cable for?
>
> I just bought one on ebay for my TS-830 and I see them every so often there. they are a straight thru cabling as I understand. I know a couple of sources to these in searches that find these occasionally. I got this one as a back up for my equipment. I like to keep extras when it's feasible. I get them for about 20 or 25 US

dollars.
>
> VFO's appear without cables several times a year I got one that
way and had to get a cable separately.
>
> VFO and amplifier relay cables show up on ebay, you just have
to watch over time. The ones that are less often found are the
transverter cables. the connectors at the transverter unit itself are
something you would more likely have to make a substitute yourself.
>
> Now 530 and 830 are more common than for say the 520.
>
> So fill me in on what your looking for.
>
> the_tick_lives <the_tick_lives@...> wrote:
> Ok so reading some of the other posts it seems that the
VFO cable is
> almost impossible to find. Does anyone have a source for the
> connectors to build one?
>
> I too have aqquired a VFO with no cable. I understand the 9 pin
tube
> socket was a popular plug used in Japan but never quite made it
> successfully here.
>
> I've tried eBAY, lots of the tube parts/accessories places, Surplus
> Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
> luck. I can find the octals, but not the 9 pin.
>
> The problem is the one that comes on the back of the radio is also
> missing. I have to read the manual again to see what that jumper
> does but I can't even use the radio until I find at least 1.
>
> Any help is appreciated!
>
> Thanks!
> Allen
> N0GOM
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date: 12/12/06

[Non-text portions of this message have been removed]

11463. Re: Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 12:39:37 UTC
From: boat.anchor
Topic: 11446 Message: 11463

Thomas
Thanks very much. That will save me trying to track that down.
regards
Barry

--- In TS-520_820_530_830@yahoogroups.com, Thomas Carney
<carnage_59@...> wrote:
>
> The 4 digit numbers on the CFM455E filters are the serial
numbers.
>
>
> "boat.anchor" <boat.anchor@...> wrote:
> In with some bins of parts I picked up are a number of
filters. I am
> curious if they would be of any use to me in my Kenwood Hybrids or
> should I pass them on to someone who could use them. They are as
> follows:
>
> Kristall-Verarbeitung
> Neckarbischofsheim-GMBH
> QUARZFILTER
> One XF-9C and one XF-9B10
> These are both 9Mhz filters.
>
> MuRata Ceramic Filter Type CFM-455E
> There are 5 of these each labelled with a number that I can't find
> any reference to.
> 0049, 3412, 3497, 3514, 5802
>
> I do have the data sheets available in PDF if that would assist in
> soliciting advice but I am completely at a loss to understand what
I
> am looking at. There is not enough space for me to upload to Files.
>
> Thanks very much
> Barry
> VA7GEM
>
>
>
>
>
>
> ---------------------------------

> Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call
rates.
>
> [Non-text portions of this message have been removed]
>

11464. Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 17:19:11 UTC
From: w5rkl
Topic: 6438 Message: 11464

I have been running my 820 with the VFO-820 without shielded cable
for a long time with absolutely no problems, even with 600 watts
running through the coax within 2 inches of the VFO cable.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> If this is a VFO for a TS-830, pin 1 should definitely be shielded.
This pin is the VFO RF output.
>
> This VFO sends 5.4 to 6.1 MHz through pin 1.
>
>
> The shield itself should connect to pin 7 at each end. I would
recommend miniature coax such as UG-174. A source of miniature coax
is a olde cell phone remote antenna. The other wires can be something
you can find and do not need to be shielded.
>
> A microphone cable will probably also work if it has a good shield.
the impedance is not critical. A straight multiple conductor mike
cable with a good shield around an individual wire would work neat.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: the_tick_lives
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, December 14, 2006 12:38 AM
> Subject: [TS-520_820_530_830] Re: VFO cable
>
>
> Well, the good news is that I found the connectors. They didn't
have
> the cable shells, but did have a number of them, and they were
here
> locally in St. Louis! So now all I have to do is get the
soldering
> iron out!
>
> How critical is having the signal line from the radio to the VFO
> sheilded. I have not looked at the schematic to see what the

> frequency that is carried over the cable.
>
> Worst case I'll use some microphone cable for the signal and
another
> cable for the other leads.
>
> Allen
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Allen,
> >
> > This is John-KA3DPW. What VFO are you looking for a cable for?
> >
> > I just bought one on ebay for my TS-830 and I see them every
> so often there. they are a straight thru cabling as I understand.
I
> know a couple of sources to these in searches that find these
> occasionally. I got this one as a back up for my equipment. I
like to
> keep extras when it's feasible. I get them for about 20 or 25 US
> dollars.
> >
> > VFO's appear without cables several times a year I got one that
> way and had to get a cable separately.
> >
> > VFO and amplifier relay cables show up on ebay, you just have
> to watch over time. The ones that are less often found are the
> transverter cables. the connectors at the transverter unit itself
are
> something you would more likely have to make a substitute
yourself.
> >
> > Now 530 and 830 are more common than for say the 520.
> >
> > So fill me in on what your looking for.
> >
> > the_tick_lives <the_tick_lives@> wrote:
> > Ok so reading some of the other posts it seems that the
> VFO cable is
> > almost impossible to find. Does anyone have a source for the
> > connectors to build one?
> >
> > I too have aqquired a VFO with no cable. I understand the 9 pin
> tube
> > socket was a popular plug used in Japan but never quite made it
> > successfully here.
> >
> > I've tried eBAY, lots of the tube parts/accessories places,

Surplus
> > Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
> > luck. I can find the octals, but not the 9 pin.
> >
> > The problem is the one that comes on the back of the radio is
also
> > missing. I have to read the manual again to see what that
jumper
> > does but I can't even use the radio until I find at least 1.
> >
> > Any help is appreciated!
> >
> > Thanks!
> > Allen
> > N0GOM
> >
> >
> >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date:
12/12/06
>
>
> [Non-text portions of this message have been removed]
>

11465. Re: Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 17:16:58 UTC
From: w5rkl
Topic: 11446 Message: 11465

The XF-9B10 is a 9mhz RF and IF bandpass filter.
The XF-9C is a 9mhz RF and IF bandpass filter.

If you need additional information, try the link below.

http://dl1.guangdongdz.com/DL/20061215/200612151114067606.pdf

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "boat.anchor"
<boat.anchor@...> wrote:
>
> Thomas
> Thanks very much. That will save me trying to track that down.
> regards
> Barry
>
> --- In TS-520_820_530_830@yahoogroups.com, Thomas Carney
> <carnage_59@> wrote:
> >
> > The 4 digit numbers on the CFM455E filters are the serial
> numbers.
> >
> >
> > "boat.anchor" <boat.anchor@> wrote:
> > In with some bins of parts I picked up are a number of
> filters. I am
> > curious if they would be of any use to me in my Kenwood Hybrids
or
> > should I pass them on to someone who could use them. They are as
> > follows:
> >
> > Kristall-Verarbeitung
> > Neckarbischofsheim-GMBH
> > QUARZFILTER
> > One XF-9C and one XF-9B10
> > These are both 9Mhz filters.
> >
> > MuRata Ceramic Filter Type CFM-455E
> > There are 5 of these each labelled with a number that I can't
find
> > any reference to.
> > 0049, 3412, 3497, 3514, 5802

> >
> > I do have the data sheets available in PDF if that would assist
in
> > soliciting advice but I am completely at a loss to understand
what
> I
> > am looking at. There is not enough space for me to upload to
Files.
> >
> > Thanks very much
> > Barry
> > VA7GEM
> >
> >
> >
> >
> >
> >
> > ---------------------------------
> > Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call
> rates.
> >
> > [Non-text portions of this message have been removed]
> >
>

11466. RE: [TS-520_820_530_830] TS-530S manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 19:38:19 UTC
From: Geoff Hegarty
Topic: 11443 Message: 11466

Hi Martin

I have just emailed the 530S User Manual pdf file to your personal address.
i tried to load it into the group's files, but was told that there wasn't
enough space. Hope you get it OK.

I downloaded this version from the web, but I can't remember where I got it
- I'll do a bit of searching at the weekend and try to find my original
source.

Regards
Geoff VK2HQA

>From: martin <kb0hae@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] TS-530S manual
>Date: Thu, 14 Dec 2006 00:40:12 -0500
>
>Hi All. IS there anyone who has the Operation manual for the TS-530
>(NOT the TS-530SP/D) in electronic format? Or does someone know where I
>can download this manual? I have the TS-530SP/D manual, and the service
>manual that covers all three (TS-530S, 530SP, and 530D). I would very
>much like to have the Operation manual for the TS-530S. If someone has
>the manual in good condition, and could scan it in high res, I would
>grateful. Best option would probably be to write it to CD-R disk and
>send it through the mail. I will gladly pay for the cost of the disk,
>padded envelope, paper disk envelope and first class postage. This
>should run about $3.00.
>
>Thanks.
>
>--
>CUL8R
>
>KBOHAE kb0hae@... Martin Campbell
>
>A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com
>
>"Protect your digital freedom and privacy, eliminate DRM, learn more at
>http://www.defectivebydesign.org/what_is_drm"

Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search now!
www.seek.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r=

Hotmail_EndText_Dec06&_m=EXT

11467. Re: TS-530S manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 20:19:02 UTC
From: ve3tmt
Topic: 11443 Message: 11467

--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
<geoff_hegarty@...> wrote:
>
> Hi Martin
>
> I have just emailed the 530S User Manual pdf file to your personal
address.
> i tried to load it into the group's files, but was told that there
wasn't
> enough space. Hope you get it OK.
>
> I downloaded this version from the web, but I can't remember where I
got it
> - I'll do a bit of searching at the weekend and try to find my original
> source.
>
> Regards
> Geoff VK2HQA

I have a .pdf of both the operating and service manual. I will check
the size and see if they can be uploaded. If there is enough interest
I can put all the manuals on CD and mail them out to those who want
them. I have most of the service and operating manuals for most of the
Kenwood gear.

Max

11468. Re: [TS-520_820_530_830] Re: TS-530S manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 21:08:28 UTC
From: N6WK
Topic: 11443 Message: 11468

Max,
I would be interested in getting them for my Kenwood Manuals site.

You can email them to n6wk_skcc3@... if you find the time and I
will post them on my site.
73,
Gordon
N6WK

ve3tmt wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Geoff Hegarty"
> <geoff_hegarty@...> wrote:
> >
> > Hi Martin
> >
> > I have just emailed the 530S User Manual pdf file to your personal
> address.
> > i tried to load it into the group's files, but was told that there
> wasn't
> > enough space. Hope you get it OK.
> >
> > I downloaded this version from the web, but I can't remember where I
> got it
> > - I'll do a bit of searching at the weekend and try to find my original
> > source.
> >
> > Regards
> > Geoff VK2HQA
>
> I have a .pdf of both the operating and service manual. I will check
> the size and see if they can be uploaded. If there is enough interest
> I can put all the manuals on CD and mail them out to those who want
> them. I have most of the service and operating manuals for most of the
> Kenwood gear.
>
> Max
>
>

[Non-text portions of this message have been removed]

11469. TS-820S Excessive Idle Current Follow Up

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 20:28:18 UTC
From: k8wvg
Topic: 11419 Message: 11469

Inspection of the rf board under high magnification showed one end of R13 having a very narrow light gray ring on the resistor body around one lead. A check with an ohm meter in circuit and with one end lifted shows R13 to be open rather than the specified 82K ohm.

R13 and R14 form a bias voltage divider for the 12BY7 driver. Will replace R13 and see what happens.

73 Les k8wvg

11470. Re: Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 23:11:44 UTC
From: Bruce Casey
Topic: 11337 Message: 11470

I am currently looking for a HC-10 for my set.... Anyone know of good sources or just keep checking ebay Thanks

---
Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

11471. Line Voltage Adjustment Text.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 23:46:31 UTC
From: Another Old Codger
Topic: 11471 Message: 11471

Here is the Line Voltage Adjustment Text from the ARRL 1985 Handbook, (Circuit in the Photos Section) :-

Some communities experience trouble from fluctuation in line voltage. Usually these fluctuations are caused by a variation in the load on the line. Most of the variation comes at certain fixed times of the day or night, such as when lights are turned on at evening, so it may be taken care of by the use of a manually operated compensating device. A simple arrangement is shown in 2A. A tapped transformer is used to boost or buck the line voltage as required. The transformer should have a secondary varying between 6 and 20 volts in steps of 2 or 3 volts, and its secondary should be capable of carrying the full-load current.

The secondary is connected in series with the line voltage and, if the phasing of the windings is correct, the voltage applied to the primaries of the transmitter transformers can be brought up to the rated 117 volts by setting the transformer tap switch on the appropriate tap. If the phasing of the two windings of the transformer happens to be reversed, the voltage will be reduced instead of increased. This connection may be used when the line voltage is above 117 volts. This method is preferable using a resistor in the primary of a power transformer since it does not affect the voltage regulation as seriously.

The circuit of 2B illustrates the use of a variable autotransformer for adjusting the line voltage. Powerstat and Variac are trade names for these transformers. High-power stations can easily draw 20 amperes from the line, but variable transformers for this current are expensive. Fig. 2C shows how to adjust the voltage of a high current line using less exotic components.

Note from Ron, though the text talks about 117 volts, obviously the circuits can be used for any line voltage, subject to appropriate transformers being used.

[Non-text portions of this message have been removed]

11472. Re: [TS-520_820_530_830] Re: Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 23:54:32 UTC
From: Kevin & Natalia
Topic: 11337 Message: 11472

There was one on E-bay a couple of days ago, type in Kenwood world clock and it should appear. It is still there.
I have never tried to send a EBay link, so here goes.
http://cgi.ebay.com.au/KENWOOD-WORLD-CLOCK-rare-AS-NEW-Time-memory_W0QQitemZ200057162526QQihZ010QQcategoryZ4674QQrdZ1QQcmdZViewItem

Kevin, ZL1KFM

Get Skype and call me for free.

----- Original Message -----
From: Bruce Casey
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 15, 2006 12:11 PM
Subject: [TS-520_820_530_830] Re: Clocks

I am currently looking for a HC-10 for my set.... Anyone know of good sources or just keep checking ebay Thanks

---
Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11473. Re: [TS-520_820_530_830] TS-530S manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-14 23:51:12 UTC
From: martin
Topic: 11443 Message: 11473

Hi Geoff. The manual came through fine. Thanks a bunch!

TTYL

Geoff Hegarty wrote:
> Hi Martin
>
> I have just emailed the 530S User Manual pdf file to your personal address.
> i tried to load it into the group's files, but was told that there wasn't
> enough space. Hope you get it OK.
>
> I downloaded this version from the web, but I can't remember where I got it
> - I'll do a bit of searching at the weekend and try to find my original
> source.
>
> Regards
> Geoff VK2HQA
>
>
>> From: martin <kb0hae@...>
>> Reply-To: TS-520_820_530_830@yahoogroups.com
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: [TS-520_820_530_830] TS-530S manual
>> Date: Thu, 14 Dec 2006 00:40:12 -0500
>>
>> Hi All. IS there anyone who has the Operation manual for the TS-530
>> (NOT the TS-530SP/D) in electronic format? Or does someone know where I
>> can download this manual? I have the TS-530SP/D manual, and the service
>> manual that covers all three (TS-530S, 530SP, and 530D). I would very
>> much like to have the Operation manual for the TS-530S. If someone has
>> the manual in good condition, and could scan it in high res, I would
>> grateful. Best option would probably be to write it to CD-R disk and
>> send it through the mail. I will gladly pay for the cost of the disk,
>> padded envelope, paper disk envelope and first class postage. This
>> should run about $3.00.
>>
>> Thanks.
>>
>> --
>> CUL8R
>>
>> KBOHAE kb0hae@... Martin Campbell
>>
>> A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com
>>

>> "Protect your digital freedom and privacy, eliminate DRM, learn more at
>> http://www.defectivebydesign.org/what_is_drm"
>
> ~~~~~~
> Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search now!
> www.seek.com.au
> http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_
r=Hotmail_EndText_Dec06&_m=EXT
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11474. Re: [TS-520_820_530_830] Re: Clocks

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 01:52:08 UTC
From: John Harp
Topic: 11337 Message: 11474

Just keep watching ebay. Do like I just did, set into favorate searches the phrase "HC-10 clock".

It will send information to your email when one appears and give you a link to it. That way it does the monitoring for you.

I just got one of these clocks off ebay. I had a bidwar but won.

The clock is here as of tonight and it is in like new shape. Complete with manual.

So if you get yours and need some info remember to contact me.

Bruce Casey <freebird2136117@...> wrote:
I am currently looking for a HC-10 for my set.... Anyone know of good sources or just keep checking ebay Thanks

---
Everyone is raving about the all-new Yahoo! Mail beta.

[Non-text portions of this message have been removed]

Check out the all-new Yahoo! Mail beta - Fire up a more powerful email and get things done faster.

[Non-text portions of this message have been removed]

11475. Re: [TS-520_820_530_830] Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 01:56:12 UTC
From: John Harp
Topic: 6438 Message: 11475

watch the heat as your soldering those wires to the pins. I had mine to high and found they won't take much heat once. Be good and be quick.

w5rkl <w5rkl@...> wrote:
I have been running my 820 with the VFO-820 without shielded cable
for a long time with absolutely no problems, even with 600 watts
running through the coax within 2 inches of the VFO cable.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> If this is a VFO for a TS-830, pin 1 should definitely be shielded.
This pin is the VFO RF output.
>
> This VFO sends 5.4 to 6.1 MHz through pin 1.
>
>
> The shield itself should connect to pin 7 at each end. I would
recommend miniature coax such as UG-174. A source of miniature coax
is a olde cell phone remote antenna. The other wires can be something
you can find and do not need to be shielded.
>
> A microphone cable will probably also work if it has a good shield.
the impedance is not critical. A straight multiple conductor mike
cable with a good shield around an individual wire would work neat.
>
> Vy 73, Walt N9WB
>
>
> ----- Original Message -----
> From: the_tick_lives
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, December 14, 2006 12:38 AM
> Subject: [TS-520_820_530_830] Re: VFO cable
>
>
> Well, the good news is that I found the connectors. They didn't
have
> the cable shells, but did have a number of them, and they were
here
> locally in St. Louis! So now all I have to do is get the
soldering

> iron out!
>
> How critical is having the signal line from the radio to the VFO
> sheilded. I have not looked at the schematic to see what the
> frequency that is carried over the cable.
>
> Worst case I'll use some microphone cable for the signal and
another
> cable for the other leads.
>
> Allen
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
> wrote:
> >
> > Allen,
> >
> > This is John-KA3DPW. What VFO are you looking for a cable for?
> >
> > I just bought one on ebay for my TS-830 and I see them every
> so often there. they are a straight thru cabling as I understand.
I
> know a couple of sources to these in searches that find these
> occasionally. I got this one as a back up for my equipment. I
like to
> keep extras when it's feasible. I get them for about 20 or 25 US
> dollars.
> >
> > VFO's appear without cables several times a year I got one that
> way and had to get a cable separately.
> >
> > VFO and amplifier relay cables show up on ebay, you just have
> to watch over time. The ones that are less often found are the
> transverter cables. the connectors at the transverter unit itself
are
> something you would more likely have to make a substitute
yourself.
> >
> > Now 530 and 830 are more common than for say the 520.
> >
> > So fill me in on what your looking for.
> >
> > the_tick_lives <the_tick_lives@> wrote:
> > Ok so reading some of the other posts it seems that the
> VFO cable is
> > almost impossible to find. Does anyone have a source for the
> > connectors to build one?
> >
> > I too have aqquired a VFO with no cable. I understand the 9 pin
> tube

> > socket was a popular plug used in Japan but never quite made it
> > successfully here.
> >
> > I've tried eBAY, lots of the tube parts/accessories places,
Surplus
> > Sales of Nebraska, Fair Radio and Antique Electronic Supply. No
> > luck. I can find the octals, but not the 9 pin.
> >
> > The problem is the one that comes on the back of the radio is
also
> > missing. I have to read the manual again to see what that
jumper
> > does but I can't even use the radio until I find at least 1.
> >
> > Any help is appreciated!
> >
> > Thanks!
> > Allen
> > N0GOM
> >
> >
> >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.18/584 - Release Date:
12/12/06
>
>
> [Non-text portions of this message have been removed]
>

Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.

[Non-text portions of this message have been removed]

11476. Re: Filters

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 01:59:32 UTC
From: boat.anchor
Topic: 11446 Message: 11476

Mike

Thanks. That is the same data sheet I have. It states both filters being good for ESB, SSB, & BLU. The SSB I will guess is single side band, either Upper or Lower. The ESB may be Extended Side Band, or Wide Band, but I am Blue in the face trying to figure out what is BLU.

The next issue is I don't understand enough radio theory to decide if these specs are good, bad, or indifferent.

If they are good should I be thinking considering how much better than my stock TS510, TS520, TS820 they might be if indeed they are a compatible replacement. Non of my radios have a CW filter and even though I don't do CW on occasion I have a guest over that does enjoy it. Might be nice to make one rig capable.

Confused in Vancouver
Barry

--- In TS-520_820_530_830@yahoogroups.com, "w5rkl" <w5rkl@...> wrote:
>
>
> The XF-9B10 is a 9mhz RF and IF bandpass filter.
> The XF-9C is a 9mhz RF and IF bandpass filter.
>
> If you need additional information, try the link below.
>
> http://dl1.guangdongdz.com/DL/20061215/200612151114067606.pdf
>
> 73's
>
> Mike
> W5RKL
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "boat.anchor"
> <boat.anchor@> wrote:
> >
> > Thomas
> > Thanks very much. That will save me trying to track that down.
> > regards
> > Barry
> >
> > --- In TS-520_820_530_830@yahoogroups.com, Thomas Carney

> > <carnage_59@> wrote:
> > >
> > > The 4 digit numbers on the CFM455E filters are the serial
> > numbers.
> > >
> > >
> > > "boat.anchor" <boat.anchor@> wrote:
> > > In with some bins of parts I picked up are a number
of
> > filters. I am
> > > curious if they would be of any use to me in my Kenwood
Hybrids
> or
> > > should I pass them on to someone who could use them. They are
as
> > > follows:
> > >
> > > Kristall-Verarbeitung
> > > Neckarbischofsheim-GMBH
> > > QUARZFILTER
> > > One XF-9C and one XF-9B10
> > > These are both 9Mhz filters.
> > >
> > > MuRata Ceramic Filter Type CFM-455E
> > > There are 5 of these each labelled with a number that I can't
> find
> > > any reference to.
> > > 0049, 3412, 3497, 3514, 5802
> > >
> > > I do have the data sheets available in PDF if that would
assist
> in
> > > soliciting advice but I am completely at a loss to understand
> what
> > I
> > > am looking at. There is not enough space for me to upload to
> Files.
> > >
> > > Thanks very much
> > > Barry
> > > VA7GEM
> > >
> > >
> > >
> > >
> > >
> > >
> > > ---------------------------------
> > > Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call
> > rates.

> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

11478. TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 02:08:22 UTC
From: w0ng@adelphia.net
Topic: 11478 Message: 11478

I'd greatly appreciate it if someone reading this posting might have an idea they would pass on to me as to why an otherwise good working Kenwood TS-830S transceiver literally goes "dark" when the screen grid switch is turned to the OFF position.

I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a good pair of 6146B's. Started to begin the neutralization procedure by loading the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch on the back panel the frequency display went dark and the SEND switch became inoperative (no relay action) along with all meter functions and controls.

Turned the screen grid switch back ON and everything returned to normal. Turned it OFF and again the display went dark, SEND switch was again inoperative along with everything else but the fan and indicator lamps. There was no measurable rf output from the driver stage on my scope when the screen grid switch was in the off position.

Really appreciate some help here as to why this is happening and how to fix it. If I haven't given enough background info, etc. let me know. Thanks in advance. Bill, w0ng@...

11479. Re: [TS-520_820_530_830] TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 02:24:45 UTC
From: Ken Winterling
Topic: 11478 Message: 11479

Bill,

You don't say how long you have owned this rig but, since you indicate
that the finals were of different types, I suspect you recently
acquired it. Am I correct? If I am correct that it is new to you
have you checked the wiring of the SG switch? Maybe a previous owner
did some "creative" wiring.

Ken, WA2LBI

On 12/14/06, w0ng@... <w0ng@...> wrote:
> I'd greatly appreciate it if someone reading this posting might have an idea
> they would pass on to me as to why an otherwise good working Kenwood TS-830S
> transceiver literally goes "dark" when the screen grid switch is turned to the
> OFF position.
>
> I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a
> good pair of 6146B's. Started to begin the neutralization procedure by loading
> the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch
> on the back panel the frequency display went dark and the SEND switch became
> inoperative (no relay action) along with all meter functions and controls.
>
> Turned the screen grid switch back ON and everything returned to normal. Turned
> it OFF and again the display went dark, SEND switch was again inoperative along
> with everything else but the fan and indicator lamps. There was no measurable rf
> output from the driver stage on my scope when the screen grid switch was in the
> off position.
>
> Really appreciate some help here as to why this is happening and how to fix it.
> If I haven't given enough background info, etc. let me know. Thanks in advance.
> Bill, w0ng@...

11480. TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 05:47:28 UTC
From: baumbrent
Topic: 11480 Message: 11480

I am now reassembling my 520 SE after having completed a 10 meter crystal transplant. However, I have a couple of stumbling blocks.

1. How do I correctly line up the pointer on the plate control. I know it should be pointing toward one end of the scale or other when the plates of the variable capacitor are completely meshed, but which end?

2. The hair pin spring on the chain for the center capacitor of the drive control seems to have lost its tension, allowing this capacitor to slip out of sync with the other two. It allows one-half to a full link worth of slippage. Is there a way to fix this?

Once I get these items fixed I'll dive into the transverter connection retrofit. I'll keep everyone posted on how that goes.

Thanks,
73, K7MEI, Brent

11481. Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 06:41:23 UTC
From: court
Topic: 11481 Message: 11481

Good day group,
Was looking on google yesterday, and came across something that looks quite interesting. Im wondering if anyone within this group have managed to have a mod done to their radio as it looks very interesting without having expensive EQ's that really dont work to its fullest with this kind of radio that we all know has more potential than we think and know these TS-830s can actually do. I will list these mods and would be intrested if anyone has attempted these at all. the List as follows.

1-EXPANDED TRANSMIT AUDIO MOD

Like the expanded receive mod, the transmit mod is usually done at the same time.

This enables the radio to transmit all of the audio that it should. The TS-830 is one of the last great sounding tube radios. Tubes will always sound better than solid state. Now let that TS-830 roar!

With this mod, the radio will transmit audio from 50hz to 3100Hz

2-UNLOCKED IF SHIFT/VBT MOD

The last and probably the most useful mod.

This mod unlocks the IF SHIFT and the VBT for transmit. It makes you sound like the station that you've tuned in. This is really advantageous when talking to a mobile. Mobile stations usually don't have many lows in their audio and your expanded transmit audio is just wasted energy to a mobile radio. This mod allows you to sacrifice your extended lows for extended highs where they will do some good for the mobile radio to hear.

Heil microphones and equalizers have been used for years in DX pileups because they cut through the background noise pileups. Now with this mod, you can instantly tailor your audio to suit your conditions. Better than a simple EQ, because with one knob, you can perfectly copy the other station, and at the same time make your signal a perfect copy for him to hear!

This should be designed into ALL radios with VBT/IF SHIFT !!

You would not believe what this mod does with the processor! Loud is an understatement.
You get volume and clarity without the grunge normally associated with processors.
No adjacent channel interference or clipping distortion either, just

loud clean audio.

If anyone has any thoughts on this or have had done or attemped this , could you please drop me a line and i will supply the web site where this could be done. Im sure there are some quite smart people out there that could actually have done this before so please some feedback would be great
Cheers
dr Courtney McCarthy

11482. Re: [TS-520_820_530_830] TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 07:49:19 UTC
From: n9wb
Topic: 11478 Message: 11482

I would look at the wiring to the SG switch for obvious modifications. Also, place the rig in transmit, SSB, 0 mike gain and measure the voltages on the switch contacts. If the switch were open, the rig would be mostly operative.

If it were shorted, you would have blownfusen mit spittensparken and smellensmoken.

I bet it has been modified.

Vy 73, Walt N9WB

----- Original Message -----
From: w0ng@...
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 14, 2006 9:08 PM
Subject: [TS-520_820_530_830] TS-830s Screen Grid Switch Issue

I'd greatly appreciate it if someone reading this posting might have an idea they would pass on to me as to why an otherwise good working Kenwood TS-830S transceiver literally goes "dark" when the screen grid switch is turned to the OFF position.

I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a good pair of 6146B's. Started to begin the neutralization procedure by loading the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch on the back panel the frequency display went dark and the SEND switch became inoperative (no relay action) along with all meter functions and controls.

Turned the screen grid switch back ON and everything returned to normal. Turned it OFF and again the display went dark, SEND switch was again inoperative along with everything else but the fan and indicator lamps. There was no measurable rf output from the driver stage on my scope when the screen grid switch was in the off position.

Really appreciate some help here as to why this is happening and how to fix it. If I haven't given enough background info, etc. let me know. Thanks in advance.
Bill, w0ng@...

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/586 - Release Date: 12/13/06

[Non-text portions of this message have been removed]

11483. Re: [TS-520_820_530_830] Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 07:58:04 UTC
From: n9wb
Topic: 11481 Message: 11483

Please list the urls where you saw these and I will comment on them, for what it is worth.

Vy 73, Walt N9WB

----- Original Message -----
From: court
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 15, 2006 1:41 AM
Subject: [TS-520_820_530_830] Kenwood TS-830 Mods

Good day group,
Was looking on google yesterday, and came across something that looks quite interesting. Im wondering if anyone within this group have managed to have a mod done to their radio as it looks very interesting without having expensive EQ's that really dont work to its fullest with this kind of radio that we all know has more potential than we think and know these TS-830s can actually do. I will list these mods and would be intrested if anyone has attempted these at all. the List as follows.

1-EXPANDED TRANSMIT AUDIO MOD

Like the expanded receive mod, the transmit mod is usually done at the same time.

This enables the radio to transmit all of the audio that it should. The TS-830 is one of the last great sounding tube radios. Tubes will always sound better than solid state. Now let that TS-830 roar!

With this mod, the radio will transmit audio from 50hz to 3100Hz

2-UNLOCKED IF SHIFT/VBT MOD

The last and probably the most useful mod.

This mod unlocks the IF SHIFT and the VBT for transmit. It makes you sound like the station that you've tuned in. This is really advantageous when talking to a mobile. Mobile stations usually don't have many lows in their audio and your expanded transmit audio is just wasted energy to a mobile radio. This mod allows you to sacrifice your extended lows for extended highs where they will do some good for the mobile radio to hear.

Heil microphones and equalizers have been used for years in DX pileups because they cut through the background noise pileups. Now with this mod, you can instantly tailor your audio to suit your conditions. Better than a simple EQ, because with one knob, you can perfectly copy the other station, and at the same time make your

signal a perfect copy for him to hear!

This should be designed into ALL radios with VBT/IF SHIFT !!

You would not believe what this mod does with the processor! Loud is
an understatement.
You get volume and clarity without the grunge normally associated
with processors.
No adjacent channel interference or clipping distortion either, just
loud clean audio.

If anyone has any thoughts on this or have had done or attemped
this , could you please drop me a line and i will supply the web
site where this could be done. Im sure there are some quite smart
people out there that could actually have done this before so
please some feedback would be great
Cheers
dr Courtney McCarthy

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/586 - Release Date: 12/13/06

[Non-text portions of this message have been removed]

11484. Kenwood TS-830 Microphone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 09:04:04 UTC
From: court
Topic: 11484 Message: 11484

Hello all.
Just a quick note to the group regarding Yaesu Microphones with the 830s.
Currently i have run many Yaesu microphones with the 830s I find the MD-1c8 is the best match, far better than any kenwood mics that i have tried as far as audio goes.(You can listen to my audio file in the files part of this forum Court3.wma).

Has anyone out there attempted to run the ultimate Yaesu MD-200 studio mic on the 830? Always wondered if the ultimate mic would drive the 830s ok ? Maybe someone has come up with a audio box (*im not talking about the w2ihy*) as i have tried that unit with no sucsess,as it just does not pass past the Front end and do the audio any justice.

There must be someone out there that does not want to spend a fortune on the new DSP radios and use the 830 , as everyone knows the 830 has fantastic audio hands down, sometimes better than the newer radios including the yaesu mark 5 ! anyone worked out an external audio tailoring unit , i know it would be a home brew, if so Put me down for one , Id be happy to purchase one if someone has come up with a fantastic product (excluding the W2IHY).. Id like to run even a Behringer B1, some real studio mics would be fantastic.

Merry christmas guys , scratch your brains people and offer some great ideas for us .
cheers
Courtney

11485. Re: [TS-520_820_530_830] Kenwood TS-830 Microphone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 10:57:10 UTC
From: n9wb
Topic: 11484 Message: 11485

I have sent you invitations to KenwoodMics, astaticmicrophones, KenwoodQSO. If you are into mikes, here is the worlds coolest site. http://www.coutant.org/
Go to n9wb.org or the files section of KenwoodMics or astaticmicrophones find an article on improving D-104s.

Max and I are working on using an Electret element in a D-104. We don't have it debugged quite enough to publish it yet. One version has a adjustable boost in the presence area.

I rather like some of the rack gear that is being used and I am IHY friendly. However, I like to build my own audio gear. I am presently working on a EQ-processor that uses FETs.

To EQ studio mikes, a variation of the Heil EQ 100 or 200 works well. Get rid of the 741 op amps and use TLO 70, 80 series.

Let me what mods you were asking about in the previous post. We have some that are not radical.

Vy 73, Walt N9WB

----- Original Message -----
From: court
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 15, 2006 4:04 AM
Subject: [TS-520_820_530_830] Kenwood TS-830 Microphone

Hello all.
Just a quick note to the group regarding Yaesu Microphones with the 830s.
Currently I have run many Yaesu microphones with the 830s I find the MD-1c8 is the best match, far better than any Kenwood mics that I have tried as far as audio goes.(You can listen to my audio file in the files part of this forum Court3.wma).

Has anyone out there attempted to run the ultimate Yaesu MD-200 studio mic on the 830? Always wondered if the ultimate mic would drive the 830s ok ? Maybe someone has come up with a audio box (*im not talking about the w2ihy*) as i have tried that unit with no success,as it just does not pass past the Front end and do the audio any justice.

There must be someone out there that does not want to spend a fortune on the new DSP radios and use the 830 , as everyone knows the 830 has fantastic audio hands down, sometimes better than the newer radios including the Yaesu mark 5 ! anyone worked out an external audio tailoring unit , I know it would be a home brew, if so Put me down for one , Id be happy to purchase one if someone has come up with a fantastic product (excluding the W2IHY).. Id like to run even a Behringer B1, some real studio mics would be fantastic.

Merry Christmas guys , scratch your brains people and offer some great
ideas for us .
cheers
Courtney

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11486. Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 14:11:24 UTC
From: ve3tmt
Topic: 11481 Message: 11486

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Please list the urls where you saw these and I will comment on them,
for what it is worth.
>
> Vy 73, Walt N9WB

Walt,

Here is the URL Courtney spoke of. I have been curious about it for
some time now myself.

Max

http://home.comcast.net/~esprepair/ts830mods.htm

11487. [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 15:36:28 UTC
From: Ron Hauser
Topic: 9948 Message: 11487

Hi Rick, long time no troubleshooting on this S-meter problem. I recently started correspondence with Tim KA9EAK who reports a similar problem. I took a break from this effort and now that I have some vacation time coming up for the holidays I am revisiting it.

Summary: The symptom is a "dead" S-meter response, the S meter only responds to very big S9++ signals. I tried the S-meter calibration procedure in the operators manual but that did not provide additional sensitivity. I then started testing voltages on the IF board around Q11, Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4), 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in that area and didn't find anything taking this signal down, so I worked back the other way and measured voltages around Q9 and Q10 on the IF board. Again I have some discrepancies from nominal, I tested a bunch of components but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and deoxit-ed board connections.

At this point I have a lot of measurements and I have tested quite a few components, but I am not finding the problem because I lack basic understanding about the radio design. I possibly also lack understanding of electronics (!) as I've only been a ham for two years. Probably I have too much data. And not enough critical thinking.

Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting stuck (but I am having fun poking around in the radio, reading the schematic, and studying the manuals). Rick, or anyone else, got any ideas?

Thanks!!!

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Sunday, October 22, 2006 12:27 AM
To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k resistance if I remember right so it pulled the circuit down but not enough to make it quit all together. Have you checked the voltages on your AV-AVR board to make sure you have exactly 3.6v and 9v? I would check the by-pass caps, There aren't that many of them nor are there any other ground paths in the AGC circuit so you may be able to check resistance with out lifting them.

73; Rick KC0HH
Lamar, Colorado

Ron Hauser <eichmann@...> wrote:

Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC line
coming into the IF board (0.00v). Likewise 0v on the RF board connector #5
pin 1. Working back to Q1 on the RF board, 0 volts on this same lead,
supposed to be 2.7v on the schematic. When you said you had a bad disk
ceramic shorted to ground, was it the C45 right here? Unless a better
recommendation appears I'll lift C45 and R12 to test...

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Tuesday, October 17, 2006 10:04 AM
To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

OK on the voltages ...I would pull the wire plug off of connector #15 on
the IF board and check pin 3 on the plug. . This is the AGC line that brings
the 2.9v onto the IF board. If it checks out for 2.9v then somethng on the
IF board is dragging it down. If it is still 1.12v, than the problem is NOT
on the IF board. The AGC line comes from the RF Board (connector # 5 pin 1).
I am sending a shot of the RF board.... I had a bad disc ceramic capacitor
one time that was shorted ...Drove me nuts until I finally found it.

The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and Q12 that
you already checked. I would check the bypass caps off the transistors the
AGC line goes to and C177 and C184 on the end leg of the AGC to the left of
Q31

We having fun yet?

73' Rick KC0HH
Lamar, Colorado

Ron Hauser wrote:

Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I had
"almost" figured out that is where I want to look.

First I checked the TX/RX relay contacts, and gave them a cleaning with a
piece of paper and some Deoxit. It was looking very bright and shiny when I
opened it up, and I did not get a change in behavior.

Next I checked voltages around Q11, Q12. The supply to R73 and Q11 is 8.98v
(ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as nominal)
4.87v (4.8v specified). That seems pretty close. The two leads of Q11 were
5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be a
problem.

I also checked the resistors around VR2, VR3. I pulled R72, R73, R74 off
the board but all checked out within tolerance. Interesting note, the
schematic has an error, it has R92 as a typo for R72, that was a nice bit of
confusion.

I'm thinking that I'm onto something with the values around Q11 but now I'm
back to poring over the schematic trying to decide where to go next.

BTW, When I go through the calibrate procedure for the S meter I never get
more than S4 as the biggest peak on the calibrator signal.

Thanks for the help, and any more ideas will be welcome!

All-new Yahoo! Mail
eta> - Fire up a more powerful email and get things done faster.

Do you Yahoo!?
Get on board. You're invited
<http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/mailb
eta> to try the new Yahoo! Mail.

11488. Re: TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 14:13:45 UTC
From: oldamateuradioman
Topic: 11478 Message: 11488

Thanks for the suggestions. Yes, I did just acquire this particular radio. This model radio was one of the first HF xcvr's I acquired when I got into ham radio some 25 years ago. Always regretted selling it. I intend to keep this one. Great cosmetics and really clean inside. Nothing burned or abused.

Of course the seller (private sale from a ham) said it had recently been "serviced" by a qualified repair shop (?). So far I haven't discovered any hacked wiring or odd-mods, just the mismatched finals.

I'll definitely look at the SG switch wiring to make sure it hasn't been tampered with. I'll let you know what I find.

73, Bill, w0ng

--- In TS-520_820_530_830@yahoogroups.com, <w0ng@...> wrote:
>
> I'd greatly appreciate it if someone reading this posting might have an idea
> they would pass on to me as to why an otherwise good working Kenwood TS-830S
> transceiver literally goes "dark" when the screen grid switch is turned to the
> OFF position.
>
> I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a
> good pair of 6146B's. Started to begin the neutralization procedure by loading
> the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch
> on the back panel the frequency display went dark and the SEND switch became
> inoperative (no relay action) along with all meter functions and controls.
>
> Turned the screen grid switch back ON and everything returned to normal. Turned
> it OFF and again the display went dark, SEND switch was again inoperative along
> with everything else but the fan and indicator lamps. There was no measurable rf
> output from the driver stage on my scope when the screen grid switch was in the
> off position.
>

> Really appreciate some help here as to why this is happening and
how to fix it.
> If I haven't given enough background info, etc. let me know. Thanks
in advance.
> Bill, w0ng@...
>

11489. Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-15 17:17:27 UTC
From: martin
Topic: 9948 Message: 11489

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by high voltage surges from the antenna, and Kenwood issued a bulletin with a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa.com/index.html, and email Ken. Since he services and restores Kenwood hybrid radios, he may be able to give you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF
> board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in
> that area and didn't find anything taking this signal down, so I worked back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding of
> electronics (!) as I've only been a ham for two years. Probably I have too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any ideas?
>
> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Sunday, October 22, 2006 12:27 AM

> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not enough
> to make it quit all together. Have you checked the voltages on your AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser <eichmann@...> wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic

> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm

> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> _____
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> _____
>
> Do you Yahoo!?
> Get on board. You're invited
> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/mailb
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11490. Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 03:41:11 UTC
From: k8wvg
Topic: 11419 Message: 11490

I decided to go over the rig with a fine tooth comb prior to testing out the R13 bias resistor repair on the rf board. Measuring the final cathode resistors I found them to be actually 20 ohms instead of 10 ohms each (they are color coded as 20 ohms). They also appear to be 2 watt or better units.

I'm the third or fourth owner of this rig so someone had replaced the (probably failed) 10 ohm resistors with 20 ohm, 5 watt ones. As Ip is measured via the drop across these resistors, I had been operating the rig at incorrect idle and power for quite a while.

Is replacing the 10 ohm cathode resistors with higher rated 20 ohm ones a recognized mod for the TS-820S? If not, 10 ohm ones are going in as fast as I can heat the iron up.

73 Les K8WVG

11491. Re: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 05:35:26 UTC
From: Max Harelik
Topic: 11419 Message: 11491

Definitely, DO NOT up the wattage of the cathode resistors. That's your failsafe if something major goes amiss. They open instead. I've got three 530s that previous owners "modded": one with a smoked power transformer, one with power amp tubes that literally have holes melted in the glass envelopes, and one with the power amp circuit board turned to charcoal. All three resulting from diddling with the component values.

Higher values is like putting a higher rated fuse that keeps blowing. Sure, the fuse is less likely to open, but you can bet that whatever it's designed to protect will eventually smoke. Put 'em back to original spec, and find the real cause for the problem.

73,
Max, K5OVW

k8wvg wrote:

>
> I decided to go over the rig with a fine tooth comb prior to testing
> out the R13 bias resistor repair on the rf board. Measuring the final
> cathode resistors I found them to be actually 20 ohms instead of 10
> ohms each (they are color coded as 20 ohms). They also appear to be 2
> watt or better units.
>
> I'm the third or fourth owner of this rig so someone had replaced the
> (probably failed) 10 ohm resistors with 20 ohm, 5 watt ones. As Ip is
> measured via the drop across these resistors, I had been operating the
> rig at incorrect idle and power for quite a while.
>
> Is replacing the 10 ohm cathode resistors with higher rated 20 ohm
> ones a recognized mod for the TS-820S? If not, 10 ohm ones are going
> in as fast as I can heat the iron up.
>
> 73 Les K8WVG
>
>

[Non-text portions of this message have been removed]

11492. Re: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 06:59:55 UTC
From: Kevin & Natalia
Topic: 11481 Message: 11492

Hi,

I have just been to the web site listed below. Interesting the Mods he has posted.
Interesting the price he charges for the mod to be carried out :(
Understand that he is in the business of servicing and electronics, however his prices put the cost way beyond the price that the radios are worth.
In my case I paid NZ$400 (US$260 approx), and at around US$430 (NZ$640), pointless, and that doesn't take into account the cost of shipping it to him, and back, another few hundred dollars.
And it does not appear he supplies the information on his pages for us to do ourselves, very sad. One would hope that in the spirit of Ham Radio this information would be freely available.

Anyway, if I could get the information, it would be nice to try. Not interested increasing the output power, if I want to do that I'll get a amp.

Anyway, that's my thoughts on the matter.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 3:11 AM
Subject: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Please list the urls where you saw these and I will comment on them,
for what it is worth.
>
> Vy 73, Walt N9WB

Walt,

Here is the URL Courtney spoke of. I have been curious about it for
some time now myself.

Max

http://home.comcast.net/~esprepair/ts830mods.htm

[Non-text portions of this message have been removed]

11494. RE: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 07:31:39 UTC
From: phil pavey
Topic: 11493 Message: 11494

here we go again....

Kevin

The gold has a gold emblem.

vk3yb

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Kevin & Natalia
Sent: Saturday, December 16, 2006 6:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models
of the TS-830S?
Also, how does one know which model one has? Is there any visual aspects on
the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by
high voltage surges from the antenna, and Kenwood issued a bulletin with
a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa.com/index.html, and email Ken. Since
he services and restores Kenwood hybrid radios, he may be able to give
you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I
recently
> started correspondence with Tim KA9EAK who reports a similar problem. I

> took a break from this effort and now that I have some vacation time
coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is
low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the
RF
> board., and on over to Q1 on the RF board. Measured(nominal):
12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components
in
> that area and didn't find anything taking this signal down, so I worked
back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of
components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding
of
> electronics (!) as I've only been a ham for two years. Probably I have
too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm
getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any
ideas?
>
> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k

> resistance if I remember right so it pulled the circuit down but not
enough
> to make it quit all together. Have you checked the voltages on your
AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other
ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser <eichmann@...> wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>

>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I

> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> _____
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> _____
>
> Do you Yahoo!?
> Get on board. You're invited
>
<http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/mailb
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

11495. Re: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 08:05:55 UTC
From: Peter A Markavage
Topic: 11493 Message: 11495

Well, it's a new month.

But, in order not to repeat it all, go to the TS-520_820_530_830@yahoogroups.com site main page; scroll down to the title "most recent messages"; look to the right and you'll see a "Search" Box. Put the word "gold" in the Box and click Search. You'll find approx. 290 comments referring to "gold" The majority of them will answer your question numerous times.

There is a wealth of information in the search archives. There's been a lot of discussion since 2002. I didn't add up the monthly numbers but there have been thousands of posts.

Pete, wa2cwa

On Sat, 16 Dec 2006 18:31:39 +1100 "phil pavey" <PPAVEY@...> writes:
> here we go again....
>
> Kevin
>
> The gold has a gold emblem.
>
> vk3yb
>
> -----Original Message-----
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Kevin &
> Natalia
> Sent: Saturday, December 16, 2006 6:03 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Standard and Gold TS-830S
>
>
> Hi,
>
> Was wondering what the differences are between the Standard and Gold
> models
> of the TS-830S?
> Also, how does one know which model one has? Is there any visual
> aspects on
> the radio that make it stand out, and easy to identify?
>
> Regards
>
> Kevin, ZL1KFM.

11496. Re: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 08:33:51 UTC
From: n9wb
Topic: 11419 Message: 11496

TS-820
Heat up the iron !

That is a very bad mod. The resistors should total 5 ohms (2-10 ohm in parallel) and it is important that they NOT be increased in wattage. The also must not be wire wound. These resistors act as a fuse, a meter shunt, and cathode grounding. Increasing the ohms will throw the meter and the linearity off, increasing the wattage will cause increased damage if a tube shorts, and using wire wound will insert inductance in series with the cathode. So use 10 ohm at 1 watt Only.

While you are in there, check R-5, R-6, and R-7 on the HV board. They often change value and mess with the screen bias.

Also, if R 13 on the RF board was open, this might have been caused by a plate to screen short in the 12BY7. You may also want to check R-14 to be sure it has not changed in value.

I would also recommend going to the files section of this group and read the article "save your transformer". This is a device that uses a light bulb in the live power line to reduce damage if there is still a problem. Be SURE you have the correct fuse, 6 amp for 120 V 4 amp for 240 V.

Vy 73, Walt N9WB

----- Original Message -----
From: k8wvg
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 15, 2006 10:41 PM
Subject: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

I decided to go over the rig with a fine tooth comb prior to testing
out the R13 bias resistor repair on the rf board. Measuring the final
cathode resistors I found them to be actually 20 ohms instead of 10
ohms each (they are color coded as 20 ohms). They also appear to be 2
watt or better units.

I'm the third or fourth owner of this rig so someone had replaced the
(probably failed) 10 ohm resistors with 20 ohm, 5 watt ones. As Ip is
measured via the drop across these resistors, I had been operating the
rig at incorrect idle and power for quite a while.

Is replacing the 10 ohm cathode resistors with higher rated 20 ohm
ones a recognized mod for the TS-820S? If not, 10 ohm ones are going
in as fast as I can heat the iron up.

73 Les K8WVG

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11497. Re: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 08:36:58 UTC
From: n9wb
Topic: 11493 Message: 11497

The gold model has a Gold label instead on a silver one. There is no difference between them .

Vy 73, Walt N9WB

----- Original Message -----
From: Kevin & Natalia
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 2:02 AM
Subject: [TS-520_820_530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models of the TS-830S? Also, how does one know which model one has? Is there any visual aspects on the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by
high voltage surges from the antenna, and Kenwood issued a bulletin with
a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa.com/index.html, and email Ken. Since
he services and restores Kenwood hybrid radios, he may be able to give
you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional

> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF
> board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in
> that area and didn't find anything taking this signal down, so I worked back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding of
> electronics (!) as I've only been a ham for two years. Probably I have too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any ideas?
>
> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not enough
> to make it quit all together. Have you checked the voltages on your AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser <eichmann@...> wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5

> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.

>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> _____
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> _____
>
> Do you Yahoo!?
> Get on board. You're invited

> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/mailb
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11498. Re: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 11:00:25 UTC
From: Ruben Echevarria
Topic: 11493 Message: 11498

The only difference between the "GOLD" and "SILVER" models is that the "Gold" has 1 bulb for meter
illumination and the "Silver" has 2 bulbs. Also alllegedly the "Gold" has all the filters installed at the factory
whereas the "SILVER" doesn't. There is no advantage in having a "Gold" vs "SILVER" they are both
the same. I happen to have one of each and there is no difference in them. The boards are numbered the
same and the components are the same.

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Kevin & Natalia <sparcnz@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 2:02:42 AM
Subject: [TS-520_820_530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models of the TS-830S? Also, how does one know which model one has? Is there any visual aspects on the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_ 530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by
high voltage surges from the antenna, and Kenwood issued a bulletin with
a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa. com/index. html, and email Ken. Since
he services and restores Kenwood hybrid radios, he may be able to give
you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF
> board., and on over to Q1 on the RF board. Measured(nominal) : 12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2. 9]). I tested quite a few components in
> that area and didn't find anything taking this signal down, so I worked back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding of
> electronics (!) as I've only been a ham for two years. Probably I have too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any ideas?
>
> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@yahoo. com]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_ 530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not enough
> to make it quit all together. Have you checked the voltages on your AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado

>
>
> Ron Hauser <eichmann@kc. rr.com> wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@yahoo. com]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_ 530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH

> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> ---------- --------- --------- --
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.

>
>
>
>
> ------------ --------- --------- --
>
> Do you Yahoo!?
> Get on board. You're invited
> <http://us.rd. yahoo.com/ evt=40791/ *http://advision .webevents. yahoo.com/ mailb
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@peoplepc. com Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix. com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectiv ebydesign. org/what_ is_drm"

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11499. Re: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 11:19:29 UTC
From: Ruben Echevarria
Topic: 11493 Message: 11499

Oh one more thing I forgot to mention the chassis of the silver model has a gold irridite finish and the gold mdel
has a grey (phosphate) coating on the bare chassis to reduce rust. Personally I feel the gold finsh is better because
it seems to stay like new. My gold model has the grey coating and slight bits of discoloration on the chassis.
The silver model looks like it's never been touched and it was an EBay purchase. The WARC bands were never
opened up. "DON'T BELIEVE THE HYPE" it's not true ....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: Ruben Echevarria <ka2hhb_2000@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 6:00:25 AM
Subject: Re: [TS-520_820_530_830] Standard and Gold TS-830S

The only difference between the "GOLD" and "SILVER" models is that the "Gold" has 1 bulb for meter
illumination and the "Silver" has 2 bulbs. Also alllegedly the "Gold" has all the filters installed at the factory
whereas the "SILVER" doesn't. There is no advantage in having a "Gold" vs "SILVER" they are both
the same. I happen to have one of each and there is no difference in them. The boards are numbered the
same and the components are the same.

Ruben Echevarria
ka2hhb_2000@ yahoo.com
10-10 33308

----- Original Message ----
From: Kevin & Natalia <sparcnz@gmail. com>
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, December 16, 2006 2:02:42 AM
Subject: [TS-520_820_ 530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models of the TS-830S? Also, how does one know which model one has? Is there any visual aspects on the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_ 830@yahoogroups. com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_ 530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by
high voltage surges from the antenna, and Kenwood issued a bulletin with
a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa. com/index. html, and email Ken. Since
he services and restores Kenwood hybrid radios, he may be able to give
you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF
> board., and on over to Q1 on the RF board. Measured(nominal) : 12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2. 9]). I tested quite a few components in
> that area and didn't find anything taking this signal down, so I worked back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding of
> electronics (!) as I've only been a ham for two years. Probably I have too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any ideas?
>
> Thanks!!!
>
>

> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@ yahoo. com]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_ 530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not enough
> to make it quit all together. Have you checked the voltages on your AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser <eichmann@kc. rr.com> wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@ yahoo. com]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_ 530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT

> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.

>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> ------------ --------- --------- --
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> ------------ --------- --------- --
>
> Do you Yahoo!?
> Get on board. You're invited
> <http://us.rd. yahoo.com/ evt=40791/ *http://advision .webevents. yahoo.com/ mailb
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@peoplepc. com Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix. com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectiv ebydesign. org/what_ is_drm"

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11500. Just a thank you to the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 11:27:26 UTC
From: Ruben Echevarria
Topic: 11500 Message: 11500

I'd like to just give a HI5 and thank you to all that participate in this group.
The moderators and participants. I look forward to reading the postings everyday.
The group is free of SPAM and thats because of the efforts of the moderators.
Thank you for being here and helping out. It give sme great pleasure to follow a thread
to it's completion and reading the joy that you guys give to others by your help.
You guys are the epitomy of what being "Hams" is all about. I thank you ... Ruben KA2HHB

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

11501. FCC Dumps Morse Code Requirements

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 16:17:31 UTC
From: Ruben Echevarria
Topic: 11501 Message: 11501

FCC Dumps Morse Code Requirement & Turns Down ARRL
Date: Fri, 15 Dec 2006 20:10:47 -0600
Subject: [SMC] FCC Dumps Morse Code Requirement & Turns Down ARRL Petition For Reconsideration

FOR IMMEDIATE RELEASE: NEWS MEDIA CONTACT:
December 15, 2006 Chelsea Fallon: (202) 418-7991

FCC MODIFIES AMATEUR RADIO SERVICE RULES,
ELIMINATING MORSE CODE EXAM REQUIREMENTS AND
ADDRESSING ARRL PETITION FOR RECONSIDERATION

Washington, D.C. - Today, the Federal Communications Commission (FCC) adopted a Report and Order and Order on Reconsideration (Order) that modifies the rules for the Amateur Radio Service by revising the examination requirements for obtaining a General Class or Amateur Extra Class amateur radio operator license and revising the operating privileges for Technician Class licensees. In addition, the Order resolves a petition filed by the American Radio Relay League, Inc. (ARRL) for partial reconsideration of an FCC Order on amateur service rules released on October 10, 2006.

The current amateur service operator license structure contains three classes of amateur radio operator licenses: Technician Class, General Class, and Amateur Extra Class. General Class and Amateur Extra Class licensees are permitted to operate in Amateur bands below 30 MHz, while the introductory Technician Class licensees are only permitted to operate in bands above 30 MHz. Prior to today's action, the FCC, in accordance with international radio regulations, required applicants for General Class and Amateur Extra Class operator licenses to pass a five words-per-minute Morse code examination. Today's Order eliminates that requirement for General and Amateur Extra licensees. This change reflects revisions to international radio regulations made at the International Telecommunication Union's 2003 World Radio Conference (WRC-03), which authorized each country to determine whether to require that individuals demonstrate Morse code proficiency in order to qualify for an amateur radio license with transmitting privileges on frequencies below 30 MHz. This change eliminates an unnecessary regulatory burden that may discourage current amateur radio operators from advancing their skills and participating more fully in the benefits of amateur radio.

Today's Order also revises the operating privileges for Technician Class licensees by eliminating a disparity in the operating privileges for the Technician Class and Technician Plus Class licensees. Technician Class licensees are authorized operating privileges on all amateur frequencies above 30 MHz. The Technician Plus Class license, which is an operator license class that existed prior the FCC's simplification of the amateur

license structure in 1999 and was grandfathered after that time, authorized operating privileges on all amateur frequencies above 30 MHz, as well as frequency segments in four HF bands (below 30 MHz) after the successful completion of a Morse code examination. With today's elimination of the Morse code exam requirements, the FCC concluded that the disparity between the operating privileges of Technician Class licensees and Technician Plus Class licensees should not be retained. Therefore, the FCC, in today's action, afforded Technician and Technician Plus licensees identical operating privileges.

Finally, today's Order resolved a petition filed by the ARRL for partial reconsideration of an FCC Order released on October 10, 2006 (FCC 06-149). In this Order, the FCC authorized amateur stations to transmit voice communications on additional frequencies in certain amateur service bands, including the 75 meter (m) band, which is authorized only for certain wideband voice and image communications. The ARRL argued that the 75 m band should not have been expanded below 3635 kHz, in order to protect automatically controlled digital stations operating in the 3620-3635 kHz portion of the 80 m band. The FCC concluded that these stations can be protected by providing alternate spectrum in the 3585-3600 kHz frequency segment.

Action by the Commission on December 15, 2006, by Report and Order and Order on Reconsideration. Chairman Martin and Commissioners Copps, Adelstein, Tate, and McDowell.

For additional information, contact William Cross at (202) 418-0691 or William.Cross@ fcc.gov.

WT Docket Nos. 04-140 and 05-235.

- FCC -

News and other information about the Federal Communications Commission is available at www.fcc.gov.

+---------- --------- --------- --------- --------- --------- --+
SMC Web Site: http://www.w9smc. com
List Help: http://mail. w9smc.com/ mailman/listinfo /smc_w9smc. com
Submissions: smc@... Problems?Contact: smc-owner@w9smc. com

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

[Non-text portions of this message have been removed]

11502. Re: Just a thank you to the group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 16:25:36 UTC
From: ve3tmt
Topic: 11500 Message: 11502

--- In TS-520_820_530_830@yahoogroups.com, Ruben Echevarria <ka2hhb_2000@...> wrote:

> You guys are the epitomy of what being "Hams" is all about. I thank you ... Ruben KA2HHB

My feelings exactly Ruben, it's great the way help is so freely offered in the group. I read each and every post as well and try to help where I can. So at this time, I want to wish everyone on the board a very happy and safe seasons greetings to you and those in your family. It is my pleasure to be part of such a wonderful group.

Max
VE3TMT

11503. Re: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 16:52:29 UTC
From: Chris HEmbree
Topic: 11481 Message: 11503

This is sad that someone is trying to make money off the mods. He must not be a Ham that cares about the sport of being a ham and helping other people at the same time.
Chris W7CTH

Kevin & Natalia <sparcnz@...> wrote: Hi,

I have just been to the web site listed below. Interesting the Mods he has posted.
Interesting the price he charges for the mod to be carried out :(
Understand that he is in the business of servicing and electronics, however his prices put the cost way beyond the price that the radios are worth.
In my case I paid NZ$400 (US$260 approx), and at around US$430 (NZ$640), pointless, and that doesn't take into account the cost of shipping it to him, and back, another few hundred dollars.
And it does not appear he supplies the information on his pages for us to do ourselves, very sad. One would hope that in the spirit of Ham Radio this information would be freely available.

Anyway, if I could get the information, it would be nice to try. Not interested increasing the output power, if I want to do that I'll get a amp.

Anyway, that's my thoughts on the matter.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 3:11 AM
Subject: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Please list the urls where you saw these and I will comment on them,
for what it is worth.
>
> Vy 73, Walt N9WB

Walt,

Here is the URL Courtney spoke of. I have been curious about it for
some time now myself.

Max

http://home.comcast.net/~esprepair/ts830mods.htm

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11504. Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 15:10:26 UTC
From: k8wvg
Topic: 11419 Message: 11504

Walt, Max,

Thanks for the information. I've already checked out the HV board, R14 on the rf board, and the 12by7, as you recommended. The correct cathode resistors are going in today. I'll be sure to dig out my "lamp tester" for the first power up. I'll let you know the results!

73 Les K8WVG

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> TS-820
> Heat up the iron !
>

11505. Re: [TS-520_820_530_830] Re: VFO cable

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 19:30:56 UTC
From: Glenn Crawford
Topic: 6438 Message: 11505

I used an old modem cable with a shield around all the conductors. Works great! Glenn, W8EXX --- On Thu 12/14, John Harp < ka3dpw@... > wrote: From: John Harp [mailto: ka3dpw@...] To: TS-520_820_530_830@yahoogroups.com Date: Thu, 14 Dec 2006 17:56:12 -0800 (PST) Subject: Re: [TS-520_820_530_830] Re: VFO cable

watch the heat as your soldering those wires to the pins. I had mine to high and found they won't take much heat once. Be good and be quick.

w5rkl <w5rkl@yahoo.com> wrote:
I have been running my 820 with the VFO-820 without shielded cable
for a long time with absolutely no problems, even with 600 watts
running through the coax within 2 inches of the VFO cable.

73's

Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" wrote:
>
> If this is a VFO for a TS-830, pin 1 should definitely be shielded.
This pin is the VFO RF output.
>
> This VFO sends 5.4 to 6.1 MHz through pin 1.
>
>
> The shield itself should connect to pin 7 at each end. I would
recommend miniature coax such as UG-174. A source of miniature coax
is a olde cell phone remote antenna. The other wires can be something
you can find and do not need to be shielded.
>
> A microphone cable will probably also work if it has a good shield.
the impedance is not critical. A straight multiple conductor mike
cable with a good shield around an individual wire would work neat.
>
> Vy 73, Walt N9WB
>
>
_____ Join Excite! - http://www.excite.com The most personalized portal on the Web!

11506. Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 20:06:32 UTC
From: ve3tmt
Topic: 11481 Message: 11506

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> This is sad that someone is trying to make money off the mods. He
must not be a Ham that cares about the sport of being a ham and
helping other people at the same time.
> Chris W7CTH

Chris,

I have to disagree. Your time is always worth something. A small
repair or mod I wouldn't bother charging, but for extensive work or
mods, which I believe those on that site would be, I would charge for.
Maybe not as much as he is asking, but something. When you don't
charge, people tend to take advantage of you. I had so many calls from
friends with computer problems I told them I was going to start
charging an hourly rate. The calls stopped. Enough said.

Max
VE3TMT

11507. Re: TS-530S manual

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 21:17:48 UTC
From: alicein49
Topic: 11443 Message: 11507

Hi Martin and Group

The address below is the European site where I originally found the 530S User Manual - credit where it's due. Also lots of various Kenwood and other info there for download.

Go to CIRCUIT DIAGRAMS, KENWOOD/TRIO.

http://www.radioamateur.eu/

Regards
Geoff VK2HQA

--- In TS-520_820_530_830@yahoogroups.com, martin <kb0hae@...> wrote:
>
> Hi Geoff. The manual came through fine. Thanks a bunch!
>
> TTYL
>
> Geoff Hegarty wrote:
> > Hi Martin
> >
> > I have just emailed the 530S User Manual pdf file to your personal address.
> > i tried to load it into the group's files, but was told that there wasn't
> > enough space. Hope you get it OK.
> >
> > I downloaded this version from the web, but I can't remember where I got it
> > - I'll do a bit of searching at the weekend and try to find my original
> > source.
> >
> > Regards
> > Geoff VK2HQA
> >
> >
> > From: martin <kb0hae@...>
> > Reply-To: TS-520_820_530_830@yahoogroups.com
> > To: TS-520_820_530_830@yahoogroups.com
> > Subject: [TS-520_820_530_830] TS-530S manual
> > Date: Thu, 14 Dec 2006 00:40:12 -0500
> >
> > Hi All. IS there anyone who has the Operation manual for the TS-530

> >> (NOT the TS-530SP/D) in electronic format? Or does someone know
where I
> >> can download this manual? I have the TS-530SP/D manual, and the
service
> >> manual that covers all three (TS-530S, 530SP, and 530D). I
would very
> >> much like to have the Operation manual for the TS-530S. If
someone has
> >> the manual in good condition, and could scan it in high res, I
would
> >> grateful. Best option would probably be to write it to CD-R
disk and
> >> send it through the mail. I will gladly pay for the cost of the
disk,
> >> padded envelope, paper disk envelope and first class postage.
This
> >> should run about $3.00.
> >>
> >> Thanks.
> >>
> >> --
> >> CUL8R
> >>
> >> KBOHAE kb0hae@... Martin
Campbell
> >>
> >> A Satisfied Kanotix Linux user! To get Kanotix go to:
www.kanotix.com
> >>
> >> "Protect your digital freedom and privacy, eliminate DRM, learn
more at
> >> http://www.defectivebydesign.org/what_is_drm"
> >
> > ~---~
> > Advertisement: Fresh jobs daily. Stop waiting for the newspaper.
Search now!
> > www.seek.com.au
> > http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%
2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>
> --

> CUL8R
>
> KBOHAE kb0hae@... Martin
Campbell
>
> A Satisfied Kanotix Linux user! To get Kanotix go to:
www.kanotix.com
>
> "Protect your digital freedom and privacy, eliminate DRM, learn
more at
> http://www.defectivebydesign.org/what_is_drm"
>

11508. Re: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 21:17:18 UTC
From: Chris HEmbree
Topic: 11481 Message: 11508

Charging to do the mod for someone or working on someones radio is one thing.
You need to be payed for your time. But to sell a mod that you came up with to each person for then to do it for themselves for $100.00 or more is a bit heavy.

I know I am off track with this and I will not say anymore.
73's
Chris W7CTH

ve3tmt <ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> This is sad that someone is trying to make money off the mods. He must not be a Ham that cares about the sport of being a ham and helping other people at the same time.
> Chris W7CTH

Chris,

I have to disagree. Your time is always worth something. A small repair or mod I wouldn't bother charging, but for extensive work or mods, which I believe those on that site would be, I would charge for. Maybe not as much as he is asking, but something. When you don't charge, people tend to take advantage of you. I had so many calls from friends with computer problems I told them I was going to start charging an hourly rate. The calls stopped. Enough said.

Max
VE3TMT

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11509. Size & Weight of TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 21:26:39 UTC
From: Bill Richarz
Topic: 11509 Message: 11509

Anyone know the actual size and weight of a TS-520?

tnx.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

11510. RE: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 20:44:31 UTC
From: Walter Milton
Topic: 11481 Message: 11510

Max,

I see the same here on this end. When I let my friends and family know that I would be charging a small fee for computer services the calls STOPPED!

Walt. KA2NJF
Psalm 1
A child of the Living God

_____

From: TS-520_820_530_830@yahoogroups.com [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of ve3tmt
Sent: Saturday, December 16, 2006 3:07 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com> 830@yahoogroups.com, Chris HEmbree <w7cth@...> wrote:
>
> This is sad that someone is trying to make money off the mods. He must not be a Ham that cares about the sport of being a ham and helping other people at the same time.
> Chris W7CTH

Chris,

I have to disagree. Your time is always worth something. A small repair or mod I wouldn't bother charging, but for extensive work or mods, which I believe those on that site would be, I would charge for. Maybe not as much as he is asking, but something. When you don't charge, people tend to take advantage of you. I had so many calls from friends with computer problems I told them I was going to start charging an hourly rate. The calls stopped. Enough said.

Max
VE3TMT

[Non-text portions of this message have been removed]

11511. RE: [TS-520_820_530_830] Size & Weight of TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 22:57:02 UTC
From: BRENT BAUM
Topic: 11509 Message: 11511

Bill,
Its 13 inches wide, 6 inches high, 13 inches long on the case, front to back, but when the fan and knobs are included, its 15 1/2 inches long. As I've been working on mine all day today, lifting it up and down, rolling it over, etc. I would estimate the weight at 30 to 35 pounds.

Now, does anyone know how to line up the pointer on the plate control and tighten the chain on the drive control?

K7MEI, Brent

>From: Bill Richarz <billn4dh@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: ts-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Size & Weight of TS-520
>Date: Sat, 16 Dec 2006 13:26:39 -0800 (PST)
>
>Anyone know the actual size and weight of a TS-520?
>
>tnx.
>
>_____
>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around
>http://mail.yahoo.com

11512. Re: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 22:53:41 UTC
From: Another Old Codger
Topic: 11481 Message: 11512

It all depends on the individual situation. For some years I ran a computer group specialising in a particular range of computers. The original company had been taken over and the new company had no details of the old machines. I circulated a newsletter and software on a disc, nominally 6 a year. It was in the mid 1980's. The subscription was 6 GBP for 6 issues, with a returnable disc. No disc returned, no newsletter and etc. Advice was freely given, you had to have at least one disc drive. But, and this was a big but, everything was done to suit my time. I had a well paid full time job and this was my hobby. Sometimes I would be asked to rescue a disc, again that was done at my time schedule. There was always enough money in the bank. Donations would be made, none were asked for, but were gratefully received.

In the end the new owners were referring all enquiries to me!!!! Hi, Hi.

But, had I not had that full time job, it would have been different, money would have changed hands, and my relationship with the 'client' would have been different. I would have been under pressure, and probably not enjoyed all the work. As it was I learnt a lot that I have found useful to this day.

If this gentleman is running a business then he will soon learn if a. he's charging too much, b. he doesn't do a good job. With the 'net news travels fast, both good and bad.

As far as the 'pests' are concerned, if I think anyone is exploiting me, I just say "No", or even better, take a long time to respond. To be fair it has taken me some years to learn that, one benefit of age.

73 Ron G8URU

----- Original Message -----
From: "ve3tmt" <ve3tmt@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 16, 2006 8:06 PM
Subject: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...> wrote:
>
> This is sad that someone is trying to make money off the mods. He must not be a Ham that cares about the sport of being a ham and helping other people at the same time.
> Chris W7CTH

Chris,

I have to disagree. Your time is always worth something. A small repair or mod I wouldn't bother charging, but for extensive work or mods, which I believe those on that site would be, I would charge for. Maybe not as much as he is asking, but something. When you don't charge, people tend to take advantage of you. I had so many calls from friends with computer problems I told them I was going to start charging an hourly rate. The calls stopped. Enough said.

Max
VE3TMT

11513. Re: [TS-520_820_530_830] Size & Weight of TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 23:01:00 UTC
From: Another Old Codger
Topic: 11509 Message: 11513

TS-820 much the same as TS-520

Dimensions 13.2" wide * 5.9" High * 13.2" Deep.

Weight 37.4 lbs

I suspect that is without the 13.8V Power Supply.

73 Ron G8URU

----- Original Message -----
From: "Bill Richarz" <billn4dh@...>
To: <ts-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 16, 2006 9:26 PM
Subject: [TS-520_820_530_830] Size & Weight of TS-520

Anyone know the actual size and weight of a TS-520?

tnx.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

11514. RE: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 00:31:04 UTC
From: John Harp
Topic: 11493 Message: 11514

Kevin, at the bottom of your dial is a label that will tell you what you have. That is unless it has been changed which is unlikely.

The gold has an extra set of CW filters. That's basically the difference you'll note. There are other little things maybe, but that's the basics of it.

phil pavey <PPAVEY@...> wrote:
here we go again....

Kevin

The gold has a gold emblem.

vk3yb

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Kevin & Natalia
Sent: Saturday, December 16, 2006 6:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models
of the TS-830S?
Also, how does one know which model one has? Is there any visual aspects on
the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by
high voltage surges from the antenna, and Kenwood issued a bulletin with
a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa.com/index.html, and email Ken. Since
he services and restores Kenwood hybrid radios, he may be able to give
you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I
recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time
coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is
low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the
RF
> board., and on over to Q1 on the RF board. Measured(nominal):
12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components
in
> that area and didn't find anything taking this signal down, so I worked
back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of
components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding
of
> electronics (!) as I've only been a ham for two years. Probably I have
too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm
getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any
ideas?
>
> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser

> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not
enough
> to make it quit all together. Have you checked the voltages on your
AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other
ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5

> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>

> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> ---
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> ---
>
> Do you Yahoo!?
> Get on board. You're invited
>
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

Yahoo! Groups Links

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11515. Kenwood TS-830 mods.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 00:00:05 UTC
From: court
Topic: 11515 Message: 11515

Hello all , i still cannot believe what a stir this has caused, after I asked if there were any audio mods that we can do for the TS-830. i think after asking weather someone could help , I think we have drifded of the main subject.
N9WB wrote to me sayng he was making an eq possibly for the TS-830s, This would be fantastic and i will be His FIRST customer !! Getting back to transmit mods, im open to someone even doing the work for me as I do not want to take the chance to mess up a perfect radio that was extremely hard to find.

This is the site in question
http://home.comcast.net/~esprepair/ts830mods.htm

Now if you go into the site , right into it, he offeres a TX and RX mod for FREE for the TS-520s , how nice of him .
site is as follows: http://home.comcast.net/~esprepair/ts520mods.htm

I can see now the 520s boys will be heading there directly, but can some other tech look at this mod , and offer me some assistance weather it would apply to the 830s?

Again , Im looking for someone to do a mod for ME as im not 100% confident in doing it myself, The problem bieng im In AUSTRALIA and this is where the problem starts and stops . A adjustable eq that would pass the Front Mic socket would be perfect but as we all know its the hard part.

Merry Xmas to all from down under
Dr Courtney McCarthy

11516. Re: [TS-520_820_530_830] Size & Weight of TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-16 21:12:46 UTC
From: martin
Topic: 11509 Message: 11516

Hi Bill. The weight is 16 kg or 37.4 Lbs. Iy is 13.2 inches wide, 5.9 inches high, and 13.2 inches deep. This is from the manual.

TTYL

Bill Richarz wrote:
> Anyone know the actual size and weight of a TS-520?
>
> tnx.
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

11517. Going to start looking for an open freq. on 75m for a net

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 03:09:48 UTC
From: Ellen R
Topic: 11517 Message: 11517

Hi everybody,

Well Dec. 15 has come and gone, and I've decided to start doing some listening/tuning 75m to find an open freq. for a net. I will keep my listening above 3800 kHz, to so all General Class and higher group memebers can participate. I would like some input from the group members, as to what times and days would work out best for the net. I'll start tonight, but don't hold your breath. The last I checked, the A-index was still well over 50, from Thursday's Aurora (I saw it while driving home from work - it was beautiful). BTW, did any of you work any AU on Thursday? I did, I had a blast on 2m CW, working as far east as North Carolina.

73,
Ellen - AF9J

11518. Re: [TS-520_820_530_830] Kenwood TS-830 mods.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 04:29:08 UTC
From: John Harp
Topic: 11515 Message: 11518

Actually Courtney the topic of mods has been around before for the TS-830. As I recall it's been around more than once. Recently some mods were done bny a number of individuals done similtaneously.

So of course you will get alot of return mail in this group of the subject. Run back thru the old messages and you'll see. There are always things going on with this group.

To follow them is interesting. IN all my 30 years I've never seen so much and learned as I have here. It's an ever growing group.

Everybody is into something and maybe more than one thing and odds are they are sharing with someone else.

You can fix your radio to what you want and here is probably where you can find out how.

Even the accessories to some extent are touched upon. Mics have a reflector of thier own and QSO's another. You can buy trade and sell here within limitations.

As you can see if you have a question, if it's been covered you'll get plenty of responses sometimes varying in range of opinions but you get something for a response. Other times someone may ask a question that is of lesser known origin and may get few answers ir maybe not a response. But odds are it's something not touched upon yet, maybe an odd topic. Usually there's a little bit of interest from others observing and may be deciding if they would like to try it or pass.

Here you get evrything from the newcomer to the repair shop. From someone with just a basic Kenwood TS to a complete station of accessories. From CW to sideband and others into digital for looking to improve the audio of the radio. Even transverters and other accessories like a clock or the remote VFO or station monitor with oan display or the tuner and amplifier, crossing the Kenwood to something else. Making cables to match radios to accessories. Making the the TS work at QRP levels.

The list could go on and there's usually a good topic going around for someone interested in the vintage radios. They have potential. They've been around for years and if taken care of they will be around for more years. You can work on them.

If you have a question ask it. If you find no answer then help find one. If you get new info then offer it to the group. We archive here.If there's documentation we got it. If not and we find it we will make sure everyone can get at it.

If you're looking for something put the word out. Others will see something and pass the word back even if they don't know where it came from.

Now we may not know more of whats here in the states than elsewhere, granted. But the members and where each lives has alot to do with that.

But welcome to the group Courtney. use your TS-830 for a while and enjoy it. Think of what you like to do with it and toos the ideas with us. You may see someone else likes the idea

too. Hard to find part? ask around. Need advice to do something? somebody may talk you thru it. Need to ship it to someone for work more than you can do check here.

Bac2u DE KA3DPW K

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11519. Re: [TS-520_820_530_830] Kenwood TS-830 mods.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 04:37:52 UTC
From: Chris HEmbree
Topic: 11515 Message: 11519

http://www.somis.org/830.html
Number 3 is a audio mod fot the 830s. all mods are free on this web site.
Chris W7cth

court <cdr_software@...> wrote: Hello all , i still cannot believe what a stir this has caused,
after I asked if there were any audio mods that we can do for the TS-830. i think after asking weather someone could help , I think we have drifded of the main subject.
N9WB wrote to me sayng he was making an eq possibly for the TS-830s, This would be fantastic and i will be His FIRST customer !! Getting back to transmit mods, im open to someone even doing the work for me as I do not want to take the chance to mess up a perfect radio that was extremely hard to find.

This is the site in question
http://home.comcast.net/~esprepair/ts830mods.htm

Now if you go into the site , right into it, he offeres a TX and RX mod for FREE for the TS-520s , how nice of him .
site is as follows: http://home.comcast.net/~esprepair/ts520mods.htm

I can see now the 520s boys will be heading there directly, but can some other tech look at this mod , and offer me some assistance weather it would apply to the 830s?

Again , Im looking for someone to do a mod for ME as im not 100% confident in doing it myself, The problem bieng im In AUSTRALIA and this is where the problem starts and stops . A adjustable eq that would pass the Front Mic socket would be perfect but as we all know its the hard part.

Merry Xmas to all from down under
Dr Courtney McCarthy

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11520. Re: [TS-520_820_530_830] TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 04:37:57 UTC
From: John Harp
Topic: 11478 Message: 11520

Actually I've noticed that during tube neutralizations. I flip the grid switch and all is well. Radio works fine. But when it's switched the other way the display goes out the meter is lit and the adio is quiet. I thought I'd broke it again, but after looking it over, I found the switch wasn't moved back to normal operation.

Makes me wonder about using it with a transverter or QRP. But I can use the 9volt battery and a pot for that low power work, just by changing the ALC.

If it works good, stick to it. By the way, when it happened to me I found nothing written anywhere about it. I've since heard others have it happen to them too.

w0ng@... wrote:
I'd greatly appreciate it if someone reading this posting might have an idea they would pass on to me as to why an otherwise good working Kenwood TS-830S transceiver literally goes "dark" when the screen grid switch is turned to the OFF position.

I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a good pair of 6146B's. Started to begin the neutralization procedure by loading the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch on the back panel the frequency display went dark and the SEND switch became inoperative (no relay action) along with all meter functions and controls.

Turned the screen grid switch back ON and everything returned to normal. Turned it OFF and again the display went dark, SEND switch was again inoperative along with everything else but the fan and indicator lamps. There was no measurable rf output from the driver stage on my scope when the screen grid switch was in the off position.

Really appreciate some help here as to why this is happening and how to fix it. If I haven't given enough background info, etc. let me know. Thanks in advance.
Bill, w0ng@...

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11521. RE: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 05:11:00 UTC
From: Rick KC0HH
Topic: 11493 Message: 11521

The ONLY difference was the color of the label. This was done by Kenwood as the 830S exceeded their expectations for sales. The 830s was always sold ' ala carte' with CW filters as optional. There is no such thing as a 'Gold Model' with stock CW filters and better circuit design.. File this under 'Urban Legend'

Rick KC0HH

John Harp <ka3dpw@...> wrote: Kevin, at the bottom of your dial is a label that will tell you what you have. That is unless it has been changed which is unlikely.

The gold has an extra set of CW filters. That's basically the difference you'll note. There are other little things maybe, but that's the basics of it.

phil pavey <PPAVEY@...> wrote:
here we go again....

Kevin

The gold has a gold emblem.

vk3yb

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Kevin & Natalia
Sent: Saturday, December 16, 2006 6:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models
of the TS-830S?
Also, how does one know which model one has? Is there any visual aspects on
the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by high voltage surges from the antenna, and Kenwood issued a bulletin with a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa.com/index.html, and email Ken. Since he services and restores Kenwood hybrid radios, he may be able to give you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF
> board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in
> that area and didn't find anything taking this signal down, so I worked back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding of
> electronics (!) as I've only been a ham for two years. Probably I have too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any ideas?
>

> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not
enough
> to make it quit all together. Have you checked the voltages on your
AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other
ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on

> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v
> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74

> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> _____
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> _____
>
> Do you Yahoo!?
> Get on board. You're invited
>
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

Yahoo! Groups Links

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

73' Rick KC0HH
Lamar, Colorado

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11522. Re: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 08:07:06 UTC
From: n9wb
Topic: 11481 Message: 11522

Max, I agree,

As most of you know, I have some mods for D-104s. I publish all of these mods and do not use secret components with the numbers rubbed off. What many of you don't know is that I will also do the work for interested parties. But when I do the work I charge them a fair price.

I used to be in the radio repair business. Hopefully over the next year I plan to have my olde shop set up on my home property and among other things repair Kenwood Hybrids. But for those who want to learn and fix them themselves, I will still help them as I do now.

An excellent example is Bill K0ZL. He and his wife have one of the most competent Kenwood repair businesses anywhere. Yet, he founded this group, the Amateur-repairs group and others. He seldom mentions that he repairs radios, yet he is always busy. And he would always go out of his way to give advice and help you fix your own and learn. He likes to teach and help his fellow hams.

I have always been suspicious of "secret mods". But if a Amateur does work on your radio for you, he is entitled to compensation. If this were not the case, there would not be any honest place to get our rigs fixed.

I plan to review the mods mentioned as soon as I get caught up and give my opinion on them, For whatever it is worth.

Vy 73, Walt N9WB

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 3:06 PM
Subject: [TS-520_820_530_830] Re: Kenwood TS-830 Mods

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...>
wrote:
>
> This is sad that someone is trying to make money off the mods. He
must not be a Ham that cares about the sport of being a ham and
helping other people at the same time.
> Chris W7CTH

Chris,

I have to disagree. Your time is always worth something. A small
repair or mod I wouldn't bother charging, but for extensive work or
mods, which I believe those on that site would be, I would charge for.
Maybe not as much as he is asking, but something. When you don't
charge, people tend to take advantage of you. I had so many calls from

friends with computer problems I told them I was going to start
charging an hourly rate. The calls stopped. Enough said.

Max
VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11523. Re: [TS-520_820_530_830] Kenwood TS-830 mods.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 08:17:22 UTC
From: n9wb
Topic: 11515 Message: 11523

This probably will not be a product, it will be something that you can build. I plan to respond to some of your earlier questions as I get caught up.

Vy 73, Walt N9WB

----- Original Message -----
From: court
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 7:00 PM
Subject: [TS-520_820_530_830] Kenwood TS-830 mods.

Hello all , i still cannot believe what a stir this has caused, after I asked if there were any audio mods that we can do for the TS-830. i think after asking weather someone could help , I think we have drifded of the main subject.
N9WB wrote to me sayng he was making an eq possibly for the TS-830s, This would be fantastic and i will be His FIRST customer !! Getting back to transmit mods, im open to someone even doing the work for me as I do not want to take the chance to mess up a perfect radio that was extremely hard to find.

This is the site in question
http://home.comcast.net/~esprepair/ts830mods.htm

Now if you go into the site , right into it, he offeres a TX and RX mod for FREE for the TS-520s , how nice of him .
site is as follows: http://home.comcast.net/~esprepair/ts520mods.htm

I can see now the 520s boys will be heading there directly, but can some other tech look at this mod , and offer me some assistance weather it would apply to the 830s?

Again , Im looking for someone to do a mod for ME as im not 100% confident in doing it myself, The problem bieng im In AUSTRALIA and this is where the problem starts and stops . A adjustable eq that would pass the Front Mic socket would be perfect but as we all know its the hard part.

Merry Xmas to all from down under
Dr Courtney McCarthy

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11524. Re: [TS-520_820_530_830] Kenwood TS-830 mods.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 08:54:42 UTC
From: Peter A Markavage
Topic: 11515 Message: 11524

It seems to me we had a discussion not too long ago about going into the balanced modulator though an equalizer like the IHY box to "improve" transmit audio. Shouldn't be that difficult to tap a point on the input to the balanced modulator to make that happen. Get your "full-body" SSB audio. Of course going in that way would render the front panel mike gain control and the speech clipper non functional.

Pete, wa2cwa

On Sat, 16 Dec 2006 20:37:52 -0800 (PST) Chris HEmbree <w7cth@...> writes:
> http://www.somis.org/830.html
> Number 3 is a audio mod fot the 830s. all mods are free on this web
> site.
> Chris W7cth
>
> court <cdr_software@...> wrote:
> >
> I can see now the 520s boys will be heading there directly, but can
>
> some other tech look at this mod , and offer me some assistance
> weather it would apply to the 830s?
>
> Again , Im looking for someone to do a mod for ME as im not 100%
> confident in doing it myself, The problem bieng im In AUSTRALIA and
>
> this is where the problem starts and stops . A adjustable eq that
> would pass the Front Mic socket would be perfect but as we all know
>
> its the hard part.
>
> Merry Xmas to all from down under
> Dr Courtney McCarthy

11525. Re: [TS-520_820_530_830] Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 10:35:37 UTC
From: n9wb
Topic: 11481 Message: 11525

TS-830:

This is my opinion on these ESP mods, for what it is worth. This is just my opinion. Walt N9WB

The receive and transmit audio mod. These mods claim to make the receiver hear from 40 Hz to 3000 Hz and transmit audio from 50 to 3100 Hz.

The TS-830 is a filter rig. I am not bothering to look up the exact width of the filters, but it can't be more than 2800 Hz with the 2 filters and that is between 6 dB points. So it is going to take some magic getting 40 to 3000 or 50 to 3100 past the filter and even then the attenuation at the edges will be quite great.

If we replace the filters with wider filters, we still have a problem. A filter rig suppresses the carrier with a balanced modulator. But this will only suppress the carrier so much. These rigs depend on the filter skirt to further suppress the carrier. This works because the carrier is outside of the filter bandpass. If you shift the carrier point closer to the filter bandpass to increase low frequency response, the carrier suppression will be compromised.

The description of these mods says "hear from XX to XXXX " and "transmit from XX to XXXX". When we specify the frequency response of an audio device, we usually specify if it is between 1, 3, or 6 dB points. So this claimed bandwidth could be between what? Between 21 dB points? I don't know.

In the file section of this group, under mods is an article "Audio Improvement in the Kenwood Hybrids". It shows how to change a capacitor to make the rig more open sounding. It gets rid of undesirable high frequency roll off on transmit. I will try to add some more mods for the receive and transmit audio for the TS-830 in a few days.

Increased Power output mod. Increases output from 125 watts to 200 watts! Wow! That is an increase of .7 dB (point 7 dB) . This is .117 (point 117) or 7/60 of an S unit. to do this, we are going to increase the input to the finals by 150 watts, and stress the diodes and the power transformer primary and HV winding by an extra 150 watts or to 180 % of its rated capacity. This mod has been around before. It involves increasing the screen voltage to the finals and a few other things.

I won't hot rod my vintage rig to 180% of it's rated capacity to gain 7/60 of an S unit. If I want more power, I will put the money toward an amplifier.

Tunable peak filter mod. This makes the notch a peak. I don't know anything about this, but if done properly it might be useful in some cases. However,

is it worth extensively modifying a vintage radio ?. You can do the same thing with a audio filter and still have the RF notch at the same time. Won't the VBT do this ? I am not very excited about this.

Is unlocking the IF shift and the VBT on a filter rig a very good idea? Unlocking the IF shift allows the carrier point to be shifted. This can really mess with carrier suppression.

Unlocking the VBT will allow you to make the transmit more narrow. But you do not have the option of having it one way for transmit and the other way on receive so I think that would have issues when working DX. You can narrow down the transmit audio with an equalizer. For DX use an equalizer and boost the audio above 1000 Hz. This would be more effective.

Now I better warn you, I am prejudiced against most mods. I have spent a lot of time de engineering "magic mods" to get a radio working properly again. I know nothing about the person offering these mods. But I would not do any of this to my TS-830. If you are interested into total ESSB with booming low bass, you need a digital rig with a menu such as a TS-850 or TS-870. These rigs will achieve lower low end than any filter rig can. I would be much more likely to put $450.00 toward one of these rigs than these mods.

Unless you are really into ESSB, Do you need or want all of this. Or are you just wanting good audio ? Like I said before, I will list a few capacitor changes that will improve the transmit and receive audio on the TS-830 as much as can be done within reason without extensive butchering of a vintage radio.

It is also possible to feed a audio rack directly into the balanced modulator. But I believe even that is far beyond what most of you probably need.

The above is my opinion, and is not meant to offend anybody. What you choose is your choice. It's just not for me.

Vy 73, Walt N9WB

BTW, if I was sent a rig that had these mods, and the owner wanted it restored to original, it would cost between $250.00 and $350.00. Remember, these mods are not published so we would have to reverse engineer them.

----- Original Message -----
From: court
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 15, 2006 1:41 AM
Subject: [TS-520_820_530_830] Kenwood TS-830 Mods

Good day group,
Was looking on google yesterday, and came across something that looks quite interesting. Im wondering if anyone within this group have managed to have a mod done to their radio as it looks very interesting without having expensive EQ's that really dont work to its fullest with this kind of radio that we all know has more

potential than we think and know these TS-830s can actually do. I will list these mods and would be intrested if anyone has attempted these at all. the List as follows.

1-EXPANDED TRANSMIT AUDIO MOD

Like the expanded receive mod, the transmit mod is usually done at the same time.

This enables the radio to transmit all of the audio that it should. The TS-830 is one of the last great sounding tube radios. Tubes will always sound better than solid state. Now let that TS-830 roar!

With this mod, the radio will transmit audio from 50hz to 3100Hz

2-UNLOCKED IF SHIFT/VBT MOD

The last and probably the most useful mod.

This mod unlocks the IF SHIFT and the VBT for transmit. It makes you sound like the station that you've tuned in. This is really advantageous when talking to a mobile. Mobile stations usually don't have many lows in their audio and your expanded transmit audio is just wasted energy to a mobile radio. This mod allows you to sacrifice your extended lows for extended highs where they will do some good for the mobile radio to hear.

Heil microphones and equalizers have been used for years in DX pileups because they cut through the background noise pileups. Now with this mod, you can instantly tailor your audio to suit your conditions. Better than a simple EQ, because with one knob, you can perfectly copy the other station, and at the same time make your signal a perfect copy for him to hear!

This should be designed into ALL radios with VBT/IF SHIFT !!

You would not believe what this mod does with the processor! Loud is an understatement.
You get volume and clarity without the grunge normally associated with processors.
No adjacent channel interference or clipping distortion either, just loud clean audio.

If anyone has any thoughts on this or have had done or attemped this , could you please drop me a line and i will supply the web site where this could be done. Im sure there are some quite smart people out there that could actually have done this before so please some feedback would be great
Cheers
dr Courtney McCarthy

No virus found in this incoming message.
Checked by AVG Free Edition.

Version: 7.1.409 / Virus Database: 268.15.18/586 - Release Date: 12/13/06

11526. Re: [TS-520_820_530_830] Standard and Gold TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 11:19:50 UTC
From: Kevin & Natalia
Topic: 11493 Message: 11526

Sorry Guys,

I did not think about doing a search, one of those long day shifts (12hr, work) wearing me down.
However thanks for the info, it tells me I have a Gold Model, as the label is Gold, and I have a full set of filters.

Regards

Kevin, Zl1KFM.

Get Skype and call me for free.

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 17, 2006 1:31 PM
Subject: RE: [TS-520_820_530_830] Standard and Gold TS-830S

Kevin, at the bottom of your dial is a label that will tell you what you have. That is unless it has been changed which is unlikely.

The gold has an extra set of CW filters. That's basically the difference you'll note. There are other little things maybe, but that's the basics of it.

phil pavey <PPAVEY@...> wrote:
here we go again....

Kevin

The gold has a gold emblem.

vk3yb

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com]On Behalf Of Kevin & Natalia
Sent: Saturday, December 16, 2006 6:03 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Standard and Gold TS-830S

Hi,

Was wondering what the differences are between the Standard and Gold models
of the TS-830S?
Also, how does one know which model one has? Is there any visual aspects on
the radio that make it stand out, and easy to identify?

Regards

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: martin
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 6:17 AM
Subject: Re: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick. I know some TS-530S rigs had a similar problem. Was caused by high voltage surges from the antenna, and Kenwood issued a bulletin with a fix. Not sure itf this is applicable to your TS-830.

You might go to http://www.k4eaa.com/index.html, and email Ken. Since he services and restores Kenwood hybrid radios, he may be able to give you an idea of where to look.

Good Luck!

Ron Hauser wrote:
> Hi Rick, long time no troubleshooting on this S-meter problem. I recently
> started correspondence with Tim KA9EAK who reports a similar problem. I
> took a break from this effort and now that I have some vacation time coming
> up for the holidays I am revisiting it.
>
> Summary: The symptom is a "dead" S-meter response, the S meter only
> responds to very big S9++ signals. I tried the S-meter calibration
> procedure in the operators manual but that did not provide additional
> sensitivity. I then started testing voltages on the IF board around Q11,
> Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low
> (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF
> board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4),
> 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in
> that area and didn't find anything taking this signal down, so I worked back
> the other way and measured voltages around Q9 and Q10 on the IF board.
> Again I have some discrepancies from nominal, I tested a bunch of components
> but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
> deoxit-ed board connections.
>
> At this point I have a lot of measurements and I have tested quite a few
> components, but I am not finding the problem because I lack basic
> understanding about the radio design. I possibly also lack understanding of
> electronics (!) as I've only been a ham for two years. Probably I have

too
> much data. And not enough critical thinking.
>
> Something is pulling the AGC line down from 2.9v to 1.12v and I'm
getting
> stuck (but I am having fun poking around in the radio, reading the
> schematic, and studying the manuals). Rick, or anyone else, got any
ideas?
>
> Thanks!!!
>
>
> -----Original Message-----
> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Sunday, October 22, 2006 12:27 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
> resistance if I remember right so it pulled the circuit down but not
enough
> to make it quit all together. Have you checked the voltages on your
AV-AVR
> board to make sure you have exactly 3.6v and 9v? I would check the
> by-pass caps, There aren't that many of them nor are there any other
ground
> paths in the AGC circuit so you may be able to check resistance with out
> lifting them.
>
> 73; Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
> line
> coming into the IF board (0.00v). Likewise 0v on the RF board
> connector #5
> pin 1. Working back to Q1 on the RF board, 0 volts on this same
> lead,
> supposed to be 2.7v on the schematic. When you said you had a bad
> disk
> ceramic shorted to ground, was it the C45 right here? Unless a
> better
> recommendation appears I'll lift C45 and R12 to test...
>
> -----Original Message-----

> From: Rick KC0HH [mailto:kc0hh@...]
> Sent: Tuesday, October 17, 2006 10:04 AM
> To: Ron Hauser
> Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)
>
> Hi Ron,
>
> OK on the voltages ...I would pull the wire plug off of connector
> #15 on
> the IF board and check pin 3 on the plug. . This is the AGC line
> that brings
> the 2.9v onto the IF board. If it checks out for 2.9v then somethng
> on the
> IF board is dragging it down. If it is still 1.12v, than the problem
> is NOT
> on the IF board. The AGC line comes from the RF Board (connector # 5
> pin 1).
> I am sending a shot of the RF board.... I had a bad disc ceramic
> capacitor
> one time that was shorted ...Drove me nuts until I finally found it.
>
>
> The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
> Q12 that
> you already checked. I would check the bypass caps off the
> transistors the
> AGC line goes to and C177 and C184 on the end leg of the AGC to the
> left of
> Q31
>
> We having fun yet?
>
> 73' Rick KC0HH
> Lamar, Colorado
>
>
> Ron Hauser wrote:
>
> Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
> had
> "almost" figured out that is where I want to look.
>
> First I checked the TX/RX relay contacts, and gave them a cleaning
> with a
> piece of paper and some Deoxit. It was looking very bright and shiny
> when I
> opened it up, and I did not get a change in behavior.
>
> Next I checked voltages around Q11, Q12. The supply to R73 and Q11
> is 8.98v

> (ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
> nominal)
> 4.87v (4.8v specified). That seems pretty close. The two leads of
> Q11 were
> 5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
> a
> problem.
>
> I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
> off
> the board but all checked out within tolerance. Interesting note,
> the
> schematic has an error, it has R92 as a typo for R72, that was a
> nice bit of
> confusion.
>
> I'm thinking that I'm onto something with the values around Q11 but
> now I'm
> back to poring over the schematic trying to decide where to go next.
>
> BTW, When I go through the calibrate procedure for the S meter I
> never get
> more than S4 as the biggest peak on the calibrator signal.
>
> Thanks for the help, and any more ideas will be welcome!
>
>
>
>
> ---------------------------------
>
> All-new Yahoo! Mail
> eta> - Fire up a more powerful email and get things done faster.
>
>
>
>
> ---------------------------------
>
> Do you Yahoo!?
> Get on board. You're invited
>
> eta> to try the new Yahoo! Mail.
>
>
>
>
> Yahoo! Groups Links
>
>

>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.21/589 - Release Date: 12/15/2006
5:10 PM

Yahoo! Groups Links

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11527. Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 11:43:33 UTC
From: Yves Remedios
Topic: 11481 Message: 11527

I agree the charges on that website seem high for the work that is involved. However, there are hams out there who are just black box operators and they seem happy to pay such prices. Such is life.

--- In TS-520_820_530_830@yahoogroups.com, Chris HEmbree <w7cth@...> wrote:
>
> Charging to do the mod for someone or working on someones
> radio is one thing.
> You need to be payed for your time. But to sell a mod that
> you came up with to each person for then to do it for
> themselves for $100.00 or more is a bit heavy.

11528. Re: [TS-520_820_530_830] TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 13:29:55 UTC
From: w0ng@adelphia.net
Topic: 11478 Message: 11528

Hey John,

Thanks for the reply to my posting. I've traced the wiring to and from the SG switch and it is correct. No mods at all. Maybe what I'm seeing when the rig goes dark is normal when the SG switch is in the off position.

73
Bill
w0ng

---- John Harp <ka3dpw@...> wrote:

==========
Actually I've noticed that during tube neutralizations. I flip the grid switch and all is well. Radio works fine. But when it's switched the other way the display goes out the meter is lit and the adio is quiet. I thought I'd broke it again, but after looking it over, I found the switch wasn't moved back to normal operation.

Makes me wonder about using it with a transverter or QRP. But I can use the 9volt battery and a pot for that low power work, just by changing the ALC.

If it works good, stick to it. By the way, when it happened to me I found nothing written anywhere about it. I've since heard others have it happen to them too.

w0ng@... wrote:
I'd greatly appreciate it if someone reading this posting might have an idea
they would pass on to me as to why an otherwise good working Kenwood TS-830S
transceiver literally goes "dark" when the screen grid switch is turned to the
OFF position.

I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a
good pair of 6146B's. Started to begin the neutralization procedure by loading
the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch
on the back panel the frequency display went dark and the SEND switch became
inoperative (no relay action) along with all meter functions and controls.

Turned the screen grid switch back ON and everything returned to normal. Turned
it OFF and again the display went dark, SEND switch was again inoperative along
with everything else but the fan and indicator lamps. There was no measurable rf
output from the driver stage on my scope when the screen grid switch was in the
off position.

Really appreciate some help here as to why this is happening and how to fix it.
If I haven't given enough background info, etc. let me know. Thanks in advance.
Bill, w0ng@...

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11529. 830 bias problem?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 13:12:44 UTC
From: w3bur
Topic: 11529 Message: 11529

Well my 830 went south for some reason, I can't get the bias down at all. No where near the 60ma where it should be, more like 300 plus. Anyone have a idea whats going on here?? Thanks Danny

11530. Re: TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 13:43:24 UTC
From: oldamateuradioman
Topic: 11478 Message: 11530

I've traced the wiring to and from the SG switch and it is correct. No mods at all. Maybe what I'm seeing when the rig goes dark is normal (?) when the SG switch is in the OFF position. Trouble is that the SEND switch relay in inoperative at that point too. Can't seem to get any rf output at all from the driver stage to do the tube neutralization. Hmmmmmmmm?

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Actually I've noticed that during tube neutralizations. I flip the grid switch and all is well. Radio works fine. But when it's switched the other way the display goes out the meter is lit and the adio is quiet. I thought I'd broke it again, but after looking it over, I found the switch wasn't moved back to normal operation.
>
> Makes me wonder about using it with a transverter or QRP. But I can use the 9volt battery and a pot for that low power work, just by changing the ALC.
>
> If it works good, stick to it. By the way, when it happened to me I found nothing written anywhere about it. I've since heard others have it happen to them too.
>
> w0ng@... wrote:
> I'd greatly appreciate it if someone reading this posting might have an idea
> they would pass on to me as to why an otherwise good working Kenwood TS-830S
> transceiver literally goes "dark" when the screen grid switch is turned to the
> OFF position.
>
> I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a
> good pair of 6146B's. Started to begin the neutralization procedure by loading
> the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch
> on the back panel the frequency display went dark and the SEND switch became
> inoperative (no relay action) along with all meter functions and controls.
>
> Turned the screen grid switch back ON and everything returned to

normal. Turned
> it OFF and again the display went dark, SEND switch was again
inoperative along
> with everything else but the fan and indicator lamps. There was no
measurable rf
> output from the driver stage on my scope when the screen grid
switch was in the
> off position.
>
> Really appreciate some help here as to why this is happening and
how to fix it.
> If I haven't given enough background info, etc. let me know.
Thanks in advance.
> Bill, w0ng@...
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11531. Re: [TS-520_820_530_830] Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 15:38:25 UTC
From: Chris HEmbree
Topic: 11481 Message: 11531

I replaced c106 in the IF board to a 100uf cap. I use a Heil Gm5 mic. I don't care about ESP on the TS830s. I have been told by all the people that I have talked with that my audio is very good.

We have some very sharp people in this group like Walt and others that will bless some of the mods and help you do them.
You can go to far on mods and you end up with a very nice CB radio that puts out a 100watts.
Hi! HI! Marry Christmas to all!!
Chris W7CTH

n9wb <n9wb@...> wrote: TS-830:

This is my opinion on these ESP mods, for what it is worth. This is just my opinion. Walt N9WB

The receive and transmit audio mod. These mods claim to make the receiver hear from 40 Hz to 3000 Hz and transmit audio from 50 to 3100 Hz.

The TS-830 is a filter rig. I am not bothering to look up the exact width of the filters, but it can't be more than 2800 Hz with the 2 filters and that is between 6 dB points. So it is going to take some magic getting 40 to 3000 or 50 to 3100 past the filter and even then the attenuation at the edges will be quite great.

If we replace the filters with wider filters, we still have a problem. A filter rig suppresses the carrier with a balanced modulator. But this will only suppress the carrier so much. These rigs depend on the filter skirt to further suppress the carrier. This works because the carrier is outside of the filter bandpass. If you shift the carrier point closer to the filter bandpass to increase low frequency response, the carrier suppression will be compromised.

The description of these mods says "hear from XX to XXXX " and "transmit from XX to XXXX". When we specify the frequency response of an audio device, we usually specify if it is between 1, 3, or 6 dB points. So this claimed bandwidth could be between what? Between 21 dB points? I don't know.

In the file section of this group, under mods is an article "Audio Improvement in the Kenwood Hybrids". It shows how to change a capacitor to make the rig more open sounding. It gets rid of undesirable high frequency roll off on transmit. I will try to add some more mods for the receive and transmit audio for the TS-830 in a few days.

Increased Power output mod. Increases output from 125 watts to 200 watts! Wow! That is an increase of .7 dB (point 7 dB) . This is .117 (point 117) or 7/60 of an S unit. to do this, we are going to increase the input to the

finals by 150 watts, and stress the diodes and the power transformer primary and HV winding by an extra 150 watts or to 180 % of its rated capacity. This mod has been around before. It involves increasing the screen voltage to the finals and a few other things.

I won't hot rod my vintage rig to 180% of it's rated capacity to gain 7/60 of an S unit. If I want more power, I will put the money toward an amplifier.

Tunable peak filter mod. This makes the notch a peak. I don't know anything about this, but if done properly it might be useful in some cases. However, is it worth extensively modifying a vintage radio ?. You can do the same thing with a audio filter and still have the RF notch at the same time. Won't the VBT do this ? I am not very excited about this.

Is unlocking the IF shift and the VBT on a filter rig a very good idea? Unlocking the IF shift allows the carrier point to be shifted. This can really mess with carrier suppression.

Unlocking the VBT will allow you to make the transmit more narrow. But you do not have the option of having it one way for transmit and the other way on receive so I think that would have issues when working DX. You can narrow down the transmit audio with an equalizer. For DX use an equalizer and boost the audio above 1000 Hz. This would be more effective.

Now I better warn you, I am prejudiced against most mods. I have spent a lot of time de engineering "magic mods" to get a radio working properly again. I know nothing about the person offering these mods. But I would not do any of this to my TS-830. If you are interested into total ESSB with booming low bass, you need a digital rig with a menu such as a TS-850 or TS-870. These rigs will achieve lower low end than any filter rig can. I would be much more likely to put $450.00 toward one of these rigs than these mods.

Unless you are really into ESSB, Do you need or want all of this. Or are you just wanting good audio ? Like I said before, I will list a few capacitor changes that will improve the transmit and receive audio on the TS-830 as much as can be done within reason without extensive butchering of a vintage radio.

It is also possible to feed a audio rack directly into the balanced modulator. But I believe even that is far beyond what most of you probably need.

The above is my opinion, and is not meant to offend anybody. What you choose is your choice. It's just not for me.

Vy 73, Walt N9WB

BTW, if I was sent a rig that had these mods, and the owner wanted it restored to original, it would cost between $250.00 and $350.00. Remember, these mods are not published so we would have to reverse engineer them.

----- Original Message -----
From: court
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 15, 2006 1:41 AM
Subject: [TS-520_820_530_830] Kenwood TS-830 Mods

Good day group,
Was looking on google yesterday, and came across something that looks quite interesting. Im wondering if anyone within this group have managed to have a mod done to their radio as it looks very interesting without having expensive EQ's that really dont work to its fullest with this kind of radio that we all know has more potential than we think and know these TS-830s can actually do. I will list these mods and would be intrested if anyone has attempted these at all. the List as follows.

1-EXPANDED TRANSMIT AUDIO MOD

Like the expanded receive mod, the transmit mod is usually done at the same time.

This enables the radio to transmit all of the audio that it should. The TS-830 is one of the last great sounding tube radios. Tubes will always sound better than solid state. Now let that TS-830 roar!

With this mod, the radio will transmit audio from 50hz to 3100Hz

2-UNLOCKED IF SHIFT/VBT MOD

The last and probably the most useful mod.

This mod unlocks the IF SHIFT and the VBT for transmit. It makes you sound like the station that you've tuned in. This is really advantageous when talking to a mobile. Mobile stations usually don't have many lows in their audio and your expanded transmit audio is just wasted energy to a mobile radio. This mod allows you to sacrifice your extended lows for extended highs where they will do some good for the mobile radio to hear.

Heil microphones and equalizers have been used for years in DX pileups because they cut through the background noise pileups. Now with this mod, you can instantly tailor your audio to suit your conditions. Better than a simple EQ, because with one knob, you can perfectly copy the other station, and at the same time make your signal a perfect copy for him to hear!

This should be designed into ALL radios with VBT/IF SHIFT !!

You would not believe what this mod does with the processor! Loud is an understatement.
You get volume and clarity without the grunge normally associated with processors.
No adjacent channel interference or clipping distortion either, just loud clean audio.

If anyone has any thoughts on this or have had done or attemped
this , could you please drop me a line and i will supply the web
site where this could be done. Im sure there are some quite smart
people out there that could actually have done this before so
please some feedback would be great
Cheers
dr Courtney McCarthy

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.18/586 - Release Date: 12/13/06

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11532. I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 15:54:11 UTC
From: mi_magic3
Topic: 11532 Message: 11532

Hi all....Hope someone can give me some tips on what to look for with a tune up/output problem. I took aprt my 830 and cleaned the front panel, knobs, etc. I also sprayed contact cleaner on the band switch and all of the pots I could get to. This rig came from a heavy smoker and the volume knob was all "scratchy", so I thought some contact cleaner was in order. I removed the tubes and dusted those off, oiled the fan bearing and cleaned that area. Re-assembled and all good on recieve. I connected a 300W dry dummy load and attempted the tune up procedure. I place the rig in USB, and do get the 60 mA bias showing up. Placing the rig in TUNE mode and meter setting to ALC, I do get some metere deflection but only if I increase the carrier control. I don't seem to be getting and output power. I do hear a the rig on my 847 on the same frequency (no antenna connected on the 847), so I think that the driver section on the 830 is working. Did I break something going into the rig? On advice on others, I did flip the 830 over during the cleaning process and touch up the solder connections on the 6146 tube sockets, close inspection showed a fine crack around a few of the pins. I've worked on video monitors before and have seen the same type of solder connection problems on flyback transformers and it would make monitors go dead once they warmed up. I figured re-soldering them would be prudent. I did not have the tubes in the sockets at the time they were being re-soldered. I do not believe I have any solder bridges or shorts. I do see that the heaters are on for all 3 tubes. I sure hope I didn't toast this rig! I want to get it on the air. Any suggestions (yes you can flame me!!!) would be most appreciated.

vy 73
Merry Christmas!

Dave N8HUL

11533. Re: Kenwood TS-830 Mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 17:10:39 UTC
From: ve3tmt
Topic: 11481 Message: 11533

Walt and the group,

Without beating a dead horse I will offer my opinions based on my experiences with the audio mods to the 830 and I will try to be brief and this will be my only post on this subject...

As far as TX audio mods go I have done the following..

1. Swapped out C106 to a .01uf
2. Replaced the modulator diodes with the low noise as discussed previously.
3. Replaced the stock SSB filter with a YK-88S2 (3 Khz BW)
4. Direct balanced modulator feed from rear of radio.

The first three will work regardless of where you feed your mic audio. The purpose of #4 is to bypass the internal mic amps which restrict the frequency response of your audio and allows the full bandwidth of your TX audio to get "into" the audio chain. If you are using a mic like the MC-50 or other mic made for amateur use, forget this mod. To take advantage of the modulator feed, you need external processing gear like mic preamps, EQ's and such which will feed a line level signal into the modulator. You will also need a good studio mic with a flat response curve. If you have not swapped the stock SSB filter for a wider once, then you are wasting your time. Also with the modulator feed, you bypass the VOX and processor circuits so these no longer work.

I have used studio rack gear as well as the W2IHY stuff with the 830 and I now use dynamic mic fitted with an electret element and in my opinion I have achieved the best results with this setup so far. When I was running the rack gear, I fiddled with VR2 on the PLL board, which adjusts your carrier insertion point. It did provide for some nice audio but it had lost the famous 830 sound. So aside from the diode swap and the cap change the radio is now back to normal. In my opinion you would need to swap the SSB filter to an INRAD # 475 (4 Khz BW) to really play with the audio. But there is also a 455 IF filter in there that needs to be swapped as well or it will negate the effects of the 4K filter.

As for the receive, I swapped the dectector diodes as well as a few caps on the AF board to increase the low end response. To tell you the truth I can't tell the difference before or after any of the receive mods. I also have a fixed level RX output on the rear to feed my soundcard for digital work. The audio is tapped on the AF board before the AF GAIN control.

So I guess in summary, if you want to invest the time and money anything is possible. But as Walt said, save your money and buy a used

850 or 940 and work on those. In my opinion the 830 is just fine the way it is.

I tried to be brief, honest...

Max
VE3TMT

11534. Re: [TS-520_820_530_830] I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 18:22:29 UTC
From: Ruben Echevarria
Topic: 11532 Message: 11534

Check your SG switch on the back of the rig .....

Ruben Echevarria
ka2hhb_2000@...
10-10 33308

----- Original Message ----
From: mi_magic3 <mi_magic3@...>
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 17, 2006 10:54:11 AM
Subject: [TS-520_820_530_830] I think I broke it!!!!

Hi all....Hope someone can give me some tips on what to look for with a tune up/output problem. I took aprt my 830 and cleaned the front panel, knobs, etc. I also sprayed contact cleaner on the band switch and all of the pots I could get to. This rig came from a heavy smoker and the volume knob was all "scratchy", so I thought some contact cleaner was in order. I removed the tubes and dusted those off, oiled the fan bearing and cleaned that area. Re-assembled and all good on recieve. I connected a 300W dry dummy load and attempted the tune up procedure. I place the rig in USB, and do get the 60 mA bias showing up. Placing the rig in TUNE mode and meter setting to ALC, I do get some metere deflection but only if I increase the carrier control. I don't seem to be getting and output power. I do hear a the rig on my 847 on the same frequency (no antenna connected on the 847), so I think that the driver section on the 830 is working. Did I break something going into the rig? On advice on others, I did flip the 830 over during the cleaning process and touch up the solder connections on the 6146 tube sockets, close inspection showed a fine crack around a few of the pins. I've worked on video monitors before and have seen the same type of solder connection problems on flyback transformers and it would make monitors go dead once they warmed up. I figured re-soldering them would be prudent. I did not have the tubes in the sockets at the time they were being re-soldered. I do not believe I have any solder bridges or shorts. I do see that the heaters are on for all 3 tubes. I sure hope I didn't toast this rig! I want to get it on the air. Any suggestions (yes you can flame me!!!) would be most appreciated.

vy 73
Merry Christmas!

Dave N8HUL

[Non-text portions of this message have been removed]

11535. Re: [TS-520_820_530_830] TS-830s Screen Grid Switch Issue

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 18:27:04 UTC
From: John Harp
Topic: 11478 Message: 11535

Yeah Bill like I said, when it happened to me I was getting upset. When I calmed down I went to have a look and found the switch in the wrong position. I flipped the switch and plugged it in and all was well.

I had just cleaned the rig. and check the neutralization. Talk about a relief.

But like I said. With the instructions I had on the transverter you should be able to flip the switch for low output for the transverter. I figure when I cable assembly the two I'll just use the old technique of a 9 volt battery and a potentiometer to cut the ALC.

That's in the archives for us if you ever need it, Thanks to James. and it will work to QRP levels ans well as reducing the drive for a Linear Amplifier. james has transverters also.

So things to know for the future should you ever need them.

I got Linear Amps on air and nearing my first VHF transverters too.

73's and enjoy.

w0ng@... wrote:
Hey John,

Thanks for the reply to my posting. I've traced the wiring to and from the SG switch and it is correct. No mods at all. Maybe what I'm seeing when the rig goes dark is normal when the SG switch is in the off position.

73
Bill
w0ng

---- John Harp <ka3dpw@...> wrote:

==========
Actually I've noticed that during tube neutralizations. I flip the grid switch and all is well. Radio works fine. But when it's switched the other way the display goes out the meter is lit and the adio is quiet. I thought I'd broke it again, but after looking it over, I found the switch wasn't moved back to normal operation.

Makes me wonder about using it with a transverter or QRP. But I can use the 9volt battery and a pot for that low power work, just by changing the ALC.

If it works good, stick to it. By the way, when it happened to me I found nothing written anywhere about it. I've since heard others have it happen to them too.

w0ng@... wrote:
I'd greatly appreciate it if someone reading this posting might have an idea
they would pass on to me as to why an otherwise good working Kenwood TS-830S
transceiver literally goes "dark" when the screen grid switch is turned to the

OFF position.

I was replacing a mismatched pair of finals (one 6146A and one 6146W) with a good pair of 6146B's. Started to begin the neutralization procedure by loading the xcvr up on 28.500 like normal but when I turned OFF the screen grid switch on the back panel the frequency display went dark and the SEND switch became inoperative (no relay action) along with all meter functions and controls.

Turned the screen grid switch back ON and everything returned to normal. Turned it OFF and again the display went dark, SEND switch was again inoperative along with everything else but the fan and indicator lamps. There was no measurable rf output from the driver stage on my scope when the screen grid switch was in the off position.

Really appreciate some help here as to why this is happening and how to fix it. If I haven't given enough background info, etc. let me know. Thanks in advance. Bill, w0ng@...

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11536. Re: [TS-520_820_530_830] I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 19:09:30 UTC
From: John Harp
Topic: 11532 Message: 11536

Dave, I don't flame. That is counter productive. your in a learning session right now and you took some good steps here.

You touched up the solder that's good so long as you don't apply to much heat to the socket. Yes a good idea to pull the tubes to do the hot work.

My question is did you put the same tubes back in the same sockets. Now I admit this sounds dumb, but if those tubes weren't a match when instaled and neutralized initially and you swapped sides this could be something of that problem. I suggest the neutralization procedure be done. This info can be found in our archives if you need it.

Secondly, you could swap the driver tube 12BY7A for a known to be good tube. While in there look at the grid resistors on your PA, if you haven't already. It's good insurance and cheap measures of prevention.

Third, make sure you are tuning up as the manual tells you to. This prevents problems and you'll know something isn't right if your readings sound off. It sounded like you may have as you wrote the message, but I mention it just to make sure.

The volume knob as I remember has a little opening along it's face as I remember. Try to remove the knob from the mount and see if it has that opening. If it does then spray the good cleaner in there and run the wiper and shaft back and forth several times. Do it again. What this does is it cleans the pots wiper surfaces of any contaminants. This will often times eliminate any scrachy sound you hear in the audio of older equipment.

And like I said clena your grounds and make sure they are tight. This person was a smoker as you say and this radio has been around for 30 years. Contamininants get into everywhere with extended time.

These measures I've told you if applied may elimimate the problem for you. They are simple to do and they eliminate the possibilities when troubleshooting. They may avoid a future issue for you too.

These are the kind of things those of us who have vintage equipment do to keep our gear going. So make sure of them first.

I once had a feedback problem on the mic. I switched antenna and no difference. It howled right back to the speaker. I shielded the line and still the same even with chokes on both lines. I checked the microphone wires and connections for something broken and found nothing. It didn't occur when using the straight key.

So I went to cleaning mode thoroughly and even pulled the knobs and connectors and cleaned behind them. Ceaned the mic jack and put it back on and retightened. The problem dissapppeared. It hasn't come back.

That's why I say maintenance. Routine maintenance, it solves so much and keeps you informed about the way the radio is inside. An ounce of prevention is worth a pond of cure.

Back2u

mi_magic3 <mi_magic3@...> wrote:
Hi all....Hope someone can give me some tips on what to look for with a tune up/output problem. I took aprt my 830 and cleaned the front panel, knobs, etc. I also sprayed contact cleaner on the band switch and all of the pots I could get to. This rig came from a heavy smoker and the volume knob was all "scratchy", so I thought some contact cleaner was in order. I removed the tubes and dusted those off, oiled the fan bearing and cleaned that area. Re-assembled and all good on recieve. I connected a 300W dry dummy load and attempted the tune up procedure. I place the rig in USB, and do get the 60 mA bias showing up. Placing the rig in TUNE mode and meter setting to ALC, I do get some metere deflection but only if I increase the carrier control. I don't seem to be getting and output power. I do hear a the rig on my 847 on the same frequency (no antenna connected on the 847), so I think that the driver section on the 830 is working. Did I break something going into the rig? On advice on others, I did flip the 830 over during the cleaning process and touch up the solder connections on the 6146 tube sockets, close inspection showed a fine crack around a few of the pins. I've worked on video monitors before and have seen the same type of solder connection problems on flyback transformers and it would make monitors go dead once they warmed up. I figured re-soldering them would be prudent. I did not have the tubes in the sockets at the time they were being re-soldered. I do not believe I have any solder bridges or shorts. I do see that the heaters are on for all 3 tubes. I sure hope I didn't toast this rig! I want to get it on the air. Any suggestions (yes you can flame me!!!) would be most appreciated.

vy 73
Merry Christmas!

Dave N8HUL

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11537. TS-830 mods

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 19:07:40 UTC
From: bob54quam@cs.com
Topic: 11537 Message: 11537

An increase in power from 125 to 200 watts would be 2.04 dB, or about 1/3 to 1/2 of an S unit depending on your S meter. Walt is right; this mod would not be worthwhile, even not considering the added stress to components.

Bob
KI0KM

[Non-text portions of this message have been removed]

11538. Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 22:00:41 UTC
From: w5rkl
Topic: 11532 Message: 11538

My question is why put the meter in ALC position for tune up? I TUNE my 820 with the meter switch in IP, increase CAR, peak the plate current with the DRIVE and dip the plate with the PLATE then adjust LOAD for max output into a dummy load then switch to antenna for tuner adjustment. Works every time.

Am I missing something here? I don't see where the manual says to use the ALC meter position during tune up. I use the ALC meter position when setting the linear's ALC and transmit audio adjustment in sideband, for example.

Happy Holidays to everyone.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Dave, I don't flame. That is counter productive. your in a learning session right now and you took some good steps here.
>
> You touched up the solder that's good so long as you don't apply to much heat to the socket. Yes a good idea to pull the tubes to do the hot work.
>
> My question is did you put the same tubes back in the same sockets. Now I admit this sounds dumb, but if those tubes weren't a match when instaled and neutralized initially and you swapped sides this could be something of that problem. I suggest the neutralization procedure be done. This info can be found in our archives if you need it.
>
> Secondly, you could swap the driver tube 12BY7A for a known to be good tube. While in there look at the grid resistors on your PA, if you haven't already. It's good insurance and cheap measures of prevention.
>
> Third, make sure you are tuning up as the manual tells you to. This prevents problems and you'll know something isn't right if your readings sound off. It sounded like you may have as you wrote the message, but I mention it just to make sure.
>
> The volume knob as I remember has a little opening along it's face as I remember. Try to remove the knob from the mount and see if

it has that opening. If it does then spray the good cleaner in there and run the wiper and shaft back and forth several times. Do it again. What this does is it cleans the pots wiper surfaces of any contaminants. This will often times eliminate any scrachy sound you hear in the audio of older equipment.
>
> And like I said clena your grounds and make sure they are tight. This person was a smoker as you say and this radio has been around for 30 years. Contamininants get into everywhere with extended time.
>
> These measures I've told you if applied may elimimate the problem for you. They are simple to do and they eliminate the possibilities when troubleshooting. They may avoid a future issue for you too.
>
> These are the kind of things those of us who have vintage equipment do to keep our gear going. So make sure of them first.
>
> I once had a feedback problem on the mic. I switched antenna and no difference. It howled right back to the speaker. I shielded the line and still the same even with chokes on both lines. I checked the microphone wires and connections for something broken and found nothing. It didn't occur when using the straight key.
>
> So I went to cleaning mode thoroughly and even pulled the knobs and connectors and cleaned behind them. Ceaned the mic jack and put it back on and retightened. The problem dissapppeared. It hasn't come back.
>
> That's why I say maintenance. Routine maintenance, it solves so much and keeps you informed about the way the radio is inside. An ounce of prevention is worth a pond of cure.
>
> Back2u
>
>
> mi_magic3 <mi_magic3@...> wrote:
> Hi all....Hope someone can give me some tips on what to look for
> with a tune up/output problem. I took aprt my 830 and cleaned the
> front panel, knobs, etc. I also sprayed contact cleaner on the band
> switch and all of the pots I could get to. This rig came from a
> heavy smoker and the volume knob was all "scratchy", so I thought
> some contact cleaner was in order. I removed the tubes and dusted
> those off, oiled the fan bearing and cleaned that area. Re-
> assembled and all good on recieve. I connected a 300W dry dummy
> load and attempted the tune up procedure. I place the rig in USB,
> and do get the 60 mA bias showing up. Placing the rig in TUNE mode
> and meter setting to ALC, I do get some metere deflection but only
> if I increase the carrier control. I don't seem to be getting and
> output power. I do hear a the rig on my 847 on the same frequency

> (no antenna connected on the 847), so I think that the driver
> section on the 830 is working. Did I break something going into the
> rig? On advice on others, I did flip the 830 over during the
> cleaning process and touch up the solder connections on the 6146
> tube sockets, close inspection showed a fine crack around a few of
> the pins. I've worked on video monitors before and have seen the
> same type of solder connection problems on flyback transformers and
> it would make monitors go dead once they warmed up. I figured re-
> soldering them would be prudent. I did not have the tubes in the
> sockets at the time they were being re-soldered. I do not believe I
> have any solder bridges or shorts. I do see that the heaters are on
> for all 3 tubes. I sure hope I didn't toast this rig! I want to
> get it on the air. Any suggestions (yes you can flame me!!!)
> would be most appreciated.
>
> vy 73
> Merry Christmas!
>
> Dave N8HUL
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11539. Re: [TS-520_820_530_830] Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 22:49:17 UTC
From: Peter A Markavage
Topic: 11532 Message: 11539

Page 18 of the operating manual and page 19, Table 3, Summary of
Transmitter Tuning Procedures, for starters.

Pete, wa2cwa

On Sun, 17 Dec 2006 22:00:41 -0000 "w5rkl" <w5rkl@...> writes:
>
> My question is why put the meter in ALC position for tune up? I TUNE
>
> my 820 with the meter switch in IP, increase CAR, peak the plate
> current with the DRIVE and dip the plate with the PLATE then adjust
>
> LOAD for max output into a dummy load then switch to antenna for
> tuner adjustment. Works every time.
>
> Am I missing something here? I don't see where the manual says to
> use
> the ALC meter position during tune up. I use the ALC meter position
>
> when setting the linear's ALC and transmit audio adjustment in
> sideband, for example.
>
> Happy Holidays to everyone.
>
> 73's
> Mike
> W5RKL

11540. Keyer on TS830-S & 430S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 22:56:21 UTC
From: Bernard Arcand
Topic: 11540 Message: 11540

Hi group...the depth of knowledge in this group is amazing and so I'm asking why...why is it that on my 830, my electronic keyer works great, but unplug it from the phone jack (key input) in the back of the 830, and plug it into the 430S key jack and it doesn't work...it doesn't key up the radio, whereas a straight key will. What's the difference between the two?? How can I change the Keyer to work with the 430S and still retain its ability on the 830S??

Thanks in advance...

Bernie in ND

11541. Re: [TS-520_820_530_830] Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 22:51:38 UTC
From: Thomas Carney
Topic: 11532 Message: 11541

In the manuals for the 820s and 830s it specifically says that the ALC circuitry has, in essence, a strong feedback. What this does is the point where the current dips when tuning is not the same place where the maximum output is. In a tube-type transmitter where there is no ALC, the current dip point is the same as the maximum output point.
That's why the manual says to have it in the ALC position.

Older transmitters that did not have ALC you tuned for a current dip.

In W5RKL's he's tuning up a slightly different way, but in the case of 820s and 830s if you tune for maximum output, you will be tuning for maximum ALC. So W5RKL is tuning up in a correct manner that will not harm the finals.

73,
Tom WB9RXJ

w5rkl <w5rkl@...> wrote:

My question is why put the meter in ALC position for tune up? I TUNE
my 820 with the meter switch in IP, increase CAR, peak the plate
current with the DRIVE and dip the plate with the PLATE then adjust
LOAD for max output into a dummy load then switch to antenna for
tuner adjustment. Works every time.

Am I missing something here? I don't see where the manual says to use
the ALC meter position during tune up. I use the ALC meter position
when setting the linear's ALC and transmit audio adjustment in
sideband, for example.

Happy Holidays to everyone.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Dave, I don't flame. That is counter productive. your in a learning
session right now and you took some good steps here.
>
> You touched up the solder that's good so long as you don't apply
to much heat to the socket. Yes a good idea to pull the tubes to do
the hot work.
>
> My question is did you put the same tubes back in the same
sockets. Now I admit this sounds dumb, but if those tubes weren't a
match when instaled and neutralized initially and you swapped sides

this could be something of that problem. I suggest the neutralization procedure be done. This info can be found in our archives if you need it.
>
> Secondly, you could swap the driver tube 12BY7A for a known to be good tube. While in there look at the grid resistors on your PA, if you haven't already. It's good insurance and cheap measures of prevention.
>
> Third, make sure you are tuning up as the manual tells you to. This prevents problems and you'll know something isn't right if your readings sound off. It sounded like you may have as you wrote the message, but I mention it just to make sure.
>
> The volume knob as I remember has a little opening along it's face as I remember. Try to remove the knob from the mount and see if it has that opening. If it does then spray the good cleaner in there and run the wiper and shaft back and forth several times. Do it again. What this does is it cleans the pots wiper surfaces of any contaminants. This will often times eliminate any scrachy sound you hear in the audio of older equipment.
>
> And like I said clena your grounds and make sure they are tight. This person was a smoker as you say and this radio has been around for 30 years. Contamininants get into everywhere with extended time.
>
> These measures I've told you if applied may elimimate the problem for you. They are simple to do and they eliminate the possibilities when troubleshooting. They may avoid a future issue for you too.
>
> These are the kind of things those of us who have vintage equipment do to keep our gear going. So make sure of them first.
>
> I once had a feedback problem on the mic. I switched antenna and no difference. It howled right back to the speaker. I shielded the line and still the same even with chokes on both lines. I checked the microphone wires and connections for something broken and found nothing. It didn't occur when using the straight key.
>
> So I went to cleaning mode thoroughly and even pulled the knobs and connectors and cleaned behind them. Ceaned the mic jack and put it back on and retightened. The problem dissapppeared. It hasn't come back.
>
> That's why I say maintenance. Routine maintenance, it solves so much and keeps you informed about the way the radio is inside. An ounce of prevention is worth a pond of cure.
>
> Back2u
>

>
> mi_magic3 <mi_magic3@...> wrote:
> Hi all....Hope someone can give me some tips on what to
look for
> with a tune up/output problem. I took aprt my 830 and cleaned the
> front panel, knobs, etc. I also sprayed contact cleaner on the band
> switch and all of the pots I could get to. This rig came from a
> heavy smoker and the volume knob was all "scratchy", so I thought
> some contact cleaner was in order. I removed the tubes and dusted
> those off, oiled the fan bearing and cleaned that area. Re-
> assembled and all good on recieve. I connected a 300W dry dummy
> load and attempted the tune up procedure. I place the rig in USB,
> and do get the 60 mA bias showing up. Placing the rig in TUNE mode
> and meter setting to ALC, I do get some metere deflection but only
> if I increase the carrier control. I don't seem to be getting and
> output power. I do hear a the rig on my 847 on the same frequency
> (no antenna connected on the 847), so I think that the driver
> section on the 830 is working. Did I break something going into the
> rig? On advice on others, I did flip the 830 over during the
> cleaning process and touch up the solder connections on the 6146
> tube sockets, close inspection showed a fine crack around a few of
> the pins. I've worked on video monitors before and have seen the
> same type of solder connection problems on flyback transformers and
> it would make monitors go dead once they warmed up. I figured re-
> soldering them would be prudent. I did not have the tubes in the
> sockets at the time they were being re-soldered. I do not believe I
> have any solder bridges or shorts. I do see that the heaters are on
> for all 3 tubes. I sure hope I didn't toast this rig! I want to
> get it on the air. Any suggestions (yes you can flame me!!!)
> would be most appreciated.
>
> vy 73
> Merry Christmas!
>
> Dave N8HUL
>
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

_____
Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11542. Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 23:07:05 UTC
From: k8wvg
Topic: 11419 Message: 11542

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> TS-820
> Heat up the iron !
>

Well... two steps forward with my TS-820S. With the fix to R13 on the rf board and correct final cathode resistors in place I now easily get 60 ma idle current.

And one backward. Now I have no rf output, no drive when metering ALC in Tune mode and SEND. Here's what I'm seeing:

- All filaments lit, SG Switch ON, XVERTER Switch OFF, CAR control full. Q5, D7, R13, R14 on rf board checked good. Known good finals.

- HV(Tune Mode, SEND) 850v
- HV(CW Mode, SEND) 810v
- HV(USB Mode, SEND) 825v

- SG(CW/USB Mode, REC) 228v
- SG(CW Mode, SEND) 208v
- SG(USB Mode, SEND) 211v
- SG(Tune Mode, REC) 112v
- SG(Tune Mode, SEND) 105v

- FG(REC) -92v
- FG(Tune/CW/USB, SEND) -45v

- 12by7 plate (REC) 326v
- 12by7 plate (Tune Mode, SEND) 306v
- 12by7 plate (CW/USB Mode, SEND) 297v
- 12by7 bias voltage (any Mode) 217v

Suggestions as where to experiment next gladly accepted.
73 Les K8WVG

11543. Re: [TS-520_820_530_830] I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 18:52:27 UTC
From: martin
Topic: 11532 Message: 11543

Hi Dave. You need to follow the transmitter tune-up procedure from the manual. If you don't have the manual, they are available on the net.

It seems that you are doing only part of the tune-up procedure.
You will probably not get much meter deflection at the point you seem to be in the tune up procedure. Did you try to do the rest of the tune-up procedure? Do you have a way to test the tubes? One or more of them may be bad.

Whatever you do, don't give up! There are some very competent and helpful people here that can surely help you get the rig up and running.

Good Luck!
mi_magic3 wrote:
> Hi all....Hope someone can give me some tips on what to look for
> with a tune up/output problem. I took aprt my 830 and cleaned the
> front panel, knobs, etc. I also sprayed contact cleaner on the band
> switch and all of the pots I could get to. This rig came from a
> heavy smoker and the volume knob was all "scratchy", so I thought
> some contact cleaner was in order. I removed the tubes and dusted
> those off, oiled the fan bearing and cleaned that area. Re-
> assembled and all good on recieve. I connected a 300W dry dummy
> load and attempted the tune up procedure. I place the rig in USB,
> and do get the 60 mA bias showing up. Placing the rig in TUNE mode
> and meter setting to ALC, I do get some metere deflection but only
> if I increase the carrier control. I don't seem to be getting and
> output power. I do hear a the rig on my 847 on the same frequency
> (no antenna connected on the 847), so I think that the driver
> section on the 830 is working. Did I break something going into the
> rig? On advice on others, I did flip the 830 over during the
> cleaning process and touch up the solder connections on the 6146
> tube sockets, close inspection showed a fine crack around a few of
> the pins. I've worked on video monitors before and have seen the
> same type of solder connection problems on flyback transformers and
> it would make monitors go dead once they warmed up. I figured re-
> soldering them would be prudent. I did not have the tubes in the
> sockets at the time they were being re-soldered. I do not believe I
> have any solder bridges or shorts. I do see that the heaters are on
> for all 3 tubes. I sure hope I didn't toast this rig! I want to
> get it on the air. Any suggestions (yes you can flame me!!!)
> would be most appreciated.
>
> vy 73
> Merry Christmas!
>
> Dave N8HUL

>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11544. Re: Keyer on TS830-S & 430S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 23:33:22 UTC
From: Gordon
Topic: 11540 Message: 11544

It's because the 830 is Grid Block keyed and the TS-430S is probably
Direct Keyed. On my keyer, I must switch a jumper to change from the
tube typr rig to the Solid state rig.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bernard Arcand"
<barcand@...> wrote:
>
> Hi group...the depth of knowledge in this group is amazing and so I'm
> asking why...why is it that on my 830, my electronic keyer works great,
> but unplug it from the phone jack (key input) in the back of the 830,
> and plug it into the 430S key jack and it doesn't work...it doesn't key
> up the radio, whereas a straight key will. What's the difference
> between the two?? How can I change the Keyer to work with the 430S
> and still retain its ability on the 830S??
>
> Thanks in advance...
>
> Bernie in ND
>

11545. Re: [TS-520_820_530_830] Keyer on TS830-S & 430S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 23:33:49 UTC
From: cparrish104@cfl.rr.com
Topic: 11540 Message: 11545

Bernie,

Your keyer is set up for keying a negative voltage. The '430 has a positive voltage on the key line. Since I have both types of rigs, I've built an optically-isolated interface between my key and rigs that has 2 negative and 2 positive keying outputs.

73, Curt, K4TL

----- Original Message -----
From: Bernard Arcand <barcand@...>
Date: Sunday, December 17, 2006 5:56 pm
Subject: [TS-520_820_530_830] Keyer on TS830-S & 430S
To: TS-520_820_530_830@yahoogroups.com

> Hi group...the depth of knowledge in this group is amazing and so
> I'm
> asking why...why is it that on my 830, my electronic keyer works
> great,
> but unplug it from the phone jack (key input) in the back of the
> 830,
> and plug it into the 430S key jack and it doesn't work...it
> doesn't key
> up the radio, whereas a straight key will. What's the difference
> between the two?? How can I change the Keyer to work with the
> 430S
> and still retain its ability on the 830S??
>
> Thanks in advance...
>
> Bernie in ND
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

11546. Re: TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 00:00:21 UTC
From: baumbrent
Topic: 11480 Message: 11546

I'm bringing this post back to the front of the queue because I think it may have been overlooked. I really need to know the starting position for the pointer on the plate adjustment knob so I can tune the 520SE and get back on the air.

In spite of this small problem I fired it up yesterday for a smoke test. The replacement of the 10 meter crystals worked fine. Good oscillation with the calibrator turned on and tuning around the bands I picked up some DX. I picked up a strong 10 or 15 over 9 SSB from a CE3 (Chile)on 20 meters at about 3:30 pm MST. I didn't try to reply because I wasn't sure of my tuning.

Thanks for being a great forum.
73, de K7MEI

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent" <brentbaum5323@...> wrote:
>
> I am now reassembling my 520 SE after having completed a 10 meter
> crystal transplant. However, I have a couple of stumbling blocks.
>
> 1. How do I correctly line up the pointer on the plate control. I know
> it should be pointing toward one end of the scale or other when the
> plates of the variable capacitor are completely meshed, but which end?
>
> 2. The hair pin spring on the chain for the center capacitor of the
> drive control seems to have lost its tension, allowing this capacitor
> to slip out of sync with the other two. It allows one-half to a full
> link worth of slippage. Is there a way to fix this?
>
> Once I get these items fixed I'll dive into the transverter connection
> retrofit. I'll keep everyone posted on how that goes.
>
> Thanks,
> 73, K7MEI, Brent
>

11547. Re: TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 00:23:44 UTC
From: baumbrent
Topic: 11480 Message: 11547

OK, I found it in a search and will now stop whining. Just FYI for
those in the same boat(anchor); the plate pointer should be at the 9
o'clock position with the plates fully meshed. The directions are
way back in message #3200 from K0ZL.

73, de K7MEI

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
<brentbaum5323@...> wrote:
>
> I'm bringing this post back to the front of the queue because I
> think it may have been overlooked. I really need to know the
> starting position for the pointer on the plate adjustment knob so
I
> can tune the 520SE and get back on the air.
>
> In spite of this small problem I fired it up yesterday for a smoke
> test. The replacement of the 10 meter crystals worked fine. Good
> oscillation with the calibrator turned on and tuning around the
> bands I picked up some DX. I picked up a strong 10 or 15 over 9
SSB
> from a CE3 (Chile)on 20 meters at about 3:30 pm MST. I didn't try
to
> reply because I wasn't sure of my tuning.
>
> Thanks for being a great forum.
> 73, de K7MEI
>
> --- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
> <brentbaum5323@> wrote:
> >
> > I am now reassembling my 520 SE after having completed a 10
meter
> > crystal transplant. However, I have a couple of stumbling blocks.
> >
> > 1. How do I correctly line up the pointer on the plate control.
I
> know
> > it should be pointing toward one end of the scale or other when
> the
> > plates of the variable capacitor are completely meshed, but
which
> end?
> >
> > 2. The hair pin spring on the chain for the center capacitor of

> the
> > drive control seems to have lost its tension, allowing this
> capacitor
> > to slip out of sync with the other two. It allows one-half to a
> full
> > link worth of slippage. Is there a way to fix this?
> >
> > Once I get these items fixed I'll dive into the transverter
> connection
> > retrofit. I'll keep everyone posted on how that goes.
> >
> > Thanks,
> > 73, K7MEI, Brent
> >
>

11548. I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 23:47:49 UTC
From: Tibor (Tibi) Zentai
Topic: 11532 Message: 11548

I neither understand why ALC should be used for tuning.

Two methods are known and suggested.

First one:

Meter in IP, with DRIVE you can find a max. IP while taking care of not exceeding 50 mA.
With PLATE try to find a dip on IP. If you can't, go to the second one.
Switch to RF and set max. with LOAD.
Grow IP to 50 mA again if needed.

Repeat the whole process until there is no more change.

Then grow IP to 200 mA, switch to RF and set max. with LOAD. This process should not exceed 5 (five) seconds!

You are ready.

Second one:

Meter in IP, with DRIVE you can find a max. IP while taking care of not exceeding 50 mA.
Switch to RF and first with PLATE then LOAD set a max.
Grow IP to 50 mA again if needed.

Repeat the whole process until there is no more change.

Then grow IP to 200 mA, switch to RF and set max with LOAD. This process should not exceed 5 (five) seconds!

You are ready.

Your tubes will be grateful.

When you operate CW (with full power) the correct ALC setting is half of the ALC scale, in SSB full scale can be allowed but no more.

In digi modes the 40 W input power should not be exceeded.

Other:

A few months ago there was a topic about loosing 28 Megs. Since I suffered from the same problem, in the begging of ARRL 10m I solved the problem. Why so late? It was the contest I wished to take part and the radio said "no".

In my case the problem was one of the wafer (rotary) switch panels slightly deviating from the vertical position. It made a eccentricity that caused 10 m (28000-28500 kHz segment, earlier 40 m band alternatively) lost.

The problem was fixed after all and the radio works in order again.

The maintenance you, Dave, have described is done in every half year here.
My radio is a TS-530SP in a "heavy duty" operation e.g. in different
contests. I have logged more than 21.000 QSO's with it in 2 and a 3/4
years.

It still works like a brand new one.

Happy Holidays and HNY to everyone!

Tibi, HA2MN (HA502MN till the end of year)

********** REPLY SEPARATOR **********

On 2006.12.17. at 22:00 w5rkl wrote:

>My question is why put the meter in ALC position for tune up? I TUNE
>my 820 with the meter switch in IP, increase CAR, peak the plate
>current with the DRIVE and dip the plate with the PLATE then adjust
>LOAD for max output into a dummy load then switch to antenna for
>tuner adjustment. Works every time.
>
>Am I missing something here? I don't see where the manual says to use
>the ALC meter position during tune up. I use the ALC meter position
>when setting the linear's ALC and transmit audio adjustment in
>sideband, for example.
>
>Happy Holidays to everyone.
>
>73's
>Mike
>W5RKL

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

11549. Power Output

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-17 23:59:40 UTC
From: Gene Hawkins
Topic: 11549 Message: 11549

Bob,

If power output meters were calibrated in db gain
instead of watts or power, I think there would be
a lot less worry about how many watts the rig is
doing and a lot less stress on components, and
a lot of mods would overall prove fruitless.

73,

Gene Hawkins
KA5CNT

11550. Re: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 01:10:29 UTC
From: N6WK
Topic: 11480 Message: 11550

I believe that the knob should be in about the 9 Oclock position with
the Plates fully closed.

Gordon

baumbrent wrote:

> I'm bringing this post back to the front of the queue because I
> think it may have been overlooked. I really need to know the
> starting position for the pointer on the plate adjustment knob so I
> can tune the 520SE and get back on the air.
>
> In spite of this small problem I fired it up yesterday for a smoke
> test. The replacement of the 10 meter crystals worked fine. Good
> oscillation with the calibrator turned on and tuning around the
> bands I picked up some DX. I picked up a strong 10 or 15 over 9 SSB
> from a CE3 (Chile)on 20 meters at about 3:30 pm MST. I didn't try to
> reply because I wasn't sure of my tuning.
>
> Thanks for being a great forum.
> 73, de K7MEI
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "baumbrent"
> <brentbaum5323@...> wrote:
> >
> > I am now reassembling my 520 SE after having completed a 10 meter
> > crystal transplant. However, I have a couple of stumbling blocks.
> >
> > 1. How do I correctly line up the pointer on the plate control. I
> know
> > it should be pointing toward one end of the scale or other when
> the
> > plates of the variable capacitor are completely meshed, but which
> end?
> >
> > 2. The hair pin spring on the chain for the center capacitor of
> the
> > drive control seems to have lost its tension, allowing this
> capacitor
> > to slip out of sync with the other two. It allows one-half to a
> full
> > link worth of slippage. Is there a way to fix this?
> >
> > Once I get these items fixed I'll dive into the transverter
> connection

> > retrofit. I'll keep everyone posted on how that goes.
> >
> > Thanks,
> > 73, K7MEI, Brent
> >
>
>

[Non-text portions of this message have been removed]

11551. Re: [TS-520_820_530_830] I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 01:19:01 UTC
From: Thomas Carney
Topic: 11532 Message: 11551

As I've explained before the ALC in 820s and 830s has a strong feedback. In order to keep reflected power down, top ALC is the right way. It's this particular design.

"Tibor (Tibi) Zentai" <ha2mn@...> wrote:
I neither understand why ALC should be used for tuning.

Two methods are known and suggested.

First one:

Meter in IP, with DRIVE you can find a max. IP while taking care of not exceeding 50 mA.
With PLATE try to find a dip on IP. If you can't, go to the second one.
Switch to RF and set max. with LOAD.
Grow IP to 50 mA again if needed.

Repeat the whole process until there is no more change.

Then grow IP to 200 mA, switch to RF and set max. with LOAD. This process should not exceed 5 (five) seconds!

You are ready.

Second one:

Meter in IP, with DRIVE you can find a max. IP while taking care of not exceeding 50 mA.
Switch to RF and first with PLATE then LOAD set a max.
Grow IP to 50 mA again if needed.

Repeat the whole process until there is no more change.

Then grow IP to 200 mA, switch to RF and set max with LOAD. This process should not exceed 5 (five) seconds!

You are ready.

Your tubes will be grateful.

When you operate CW (with full power) the correct ALC setting is half of the ALC scale, in SSB full scale can be allowed but no more.

In digi modes the 40 W input power should not be exceeded.

Other:

A few months ago there was a topic about loosing 28 Megs. Since I suffered from the same problem, in the begging of ARRL 10m I solved the problem. Why so late? It was the contest I wished to take part and the radio said "no".

In my case the problem was one of the wafer (rotary) switch panels slightly deviating from the vertical position. It made a eccentricity that caused 10 m (28000-28500 kHz segment, earlier 40 m band alternatively) lost.

The problem was fixed after all and the radio works in order again.

The maintenance you, Dave, have described is done in every half year here. My radio is a TS-530SP in a "heavy duty" operation e.g. in different contests. I have logged more than 21.000 QSO's with it in 2 and a 3/4 years.

It still works like a brand new one.

Happy Holidays and HNY to everyone!

Tibi, HA2MN (HA502MN till the end of year)

********** REPLY SEPARATOR **********

On 2006.12.17. at 22:00 w5rkl wrote:

>My question is why put the meter in ALC position for tune up? I TUNE
>my 820 with the meter switch in IP, increase CAR, peak the plate
>current with the DRIVE and dip the plate with the PLATE then adjust
>LOAD for max output into a dummy load then switch to antenna for
>tuner adjustment. Works every time.
>
>Am I missing something here? I don't see where the manual says to use
>the ALC meter position during tune up. I use the ALC meter position
>when setting the linear's ALC and transmit audio adjustment in
>sideband, for example.
>
>Happy Holidays to everyone.
>
>73's
>Mike
>W5RKL

73, dx de Tibi, HA2MN CTC # 761 GACW # 802 CDX

Member of SPAR Rag Chewer's Club No. 75 in CW and Phone.
http://www.spar-hams.org

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11552. Re: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 01:31:07 UTC
From: BRENT BAUM
Topic: 11480 Message: 11552

Thanks, Gordon.
Brent

>From: N6WK <n6wk@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs
>Date: Sun, 17 Dec 2006 17:10:29 -0800
>
>I believe that the knob should be in about the 9 Oclock position with
>the Plates fully closed.
>
>Gordon
>
>
>
>baumbrent wrote:
>
> > I'm bringing this post back to the front of the queue because I
> > think it may have been overlooked. I really need to know the
> > starting position for the pointer on the plate adjustment knob so I
> > can tune the 520SE and get back on the air.
> >
> > In spite of this small problem I fired it up yesterday for a smoke
> > test. The replacement of the 10 meter crystals worked fine. Good
> > oscillation with the calibrator turned on and tuning around the
> > bands I picked up some DX. I picked up a strong 10 or 15 over 9 SSB
> > from a CE3 (Chile)on 20 meters at about 3:30 pm MST. I didn't try to
> > reply because I wasn't sure of my tuning.
> >
> > Thanks for being a great forum.
> > 73, de K7MEI
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "baumbrent"
> > <brentbaum5323@...> wrote:
> > >
> > > I am now reassembling my 520 SE after having completed a 10 meter
> > > crystal transplant. However, I have a couple of stumbling blocks.
> > >
> > > 1. How do I correctly line up the pointer on the plate control. I
> > know
> > > it should be pointing toward one end of the scale or other when
> > the
> > > plates of the variable capacitor are completely meshed, but which

> > end?
> > >
> > > 2. The hair pin spring on the chain for the center capacitor of
> > the
> > > drive control seems to have lost its tension, allowing this
> > capacitor
> > > to slip out of sync with the other two. It allows one-half to a
> > full
> > > link worth of slippage. Is there a way to fix this?
> > >
> > > Once I get these items fixed I'll dive into the transverter
> > connection
> > > retrofit. I'll keep everyone posted on how that goes.
> > >
> > > Thanks,
> > > 73, K7MEI, Brent
> > >
> >
> >
>
>
>
>[Non-text portions of this message have been removed]
>

11553. TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 02:14:17 UTC
From: magicalmichaelmerlin
Topic: 11553 Message: 11553

I'm new to the reflector and would appreciate some thoughts on my situation. I purchased a TS-520 at our club's auction last week. I was able to tune the finals without any problem, using a straight key. I made a single QSO, but with a 599 report.
I am aware of the -65V grid block keying set-up of the 520. I thought I would be alright plugging in a Heathkit HD-1410. Unfortunately, all I got was a single continuous tone on plugging it in, so I quickly disconnected it. Too late - no more current at the plate with the meter in the IP setting (LSB mode, for 40M), no readings in the tune position for drive or plate, and of course no powe rout for CW using the straight key. (None at my SWR meter either - I am using an R7000, but have the SWR in line anyway).
So, I fear I have at the very least blown the final tubes with an HD-1410. By the way, the receiver seems to work ok (hard to tell because of band conditiosn lately!) Questions for the group:
Am I wrong about the HD-1410? I thought it was built to accomodate grid block keying. (I wonder (too late) if perhaps the particular unit I have was modified to work with later rigs.)
Could I have lucked out and simply blown a fuse? I am not aware of any fuse in line near the key input.
I don't have a sufficient background to even think about doing my own repairs. There are some fellow hams here in Chicago, who could help me out, but I am seriously thinking of sending the rig to Ken K4EAA. Any comments on this route? Has anyone had him work on a rig (esp the 520) with this type of problem? (There are some very minor issues with the front panel - the dial scale is not properly meshing with the sub-dial, but I can easily live with that).

I should add I am almost entirely a CW op. I've only had my ticket since 1998, but am an extra (the 520 is my first tube rig!). However, I'm a doctor, not an engineer! I like to think I know my limits, so am quite ready to have this repaired by someone else. I must say I really, really like the TS-520 - it meets my needs for what I want, in terms of CW operating - if I can get a keyer into it (I can do straight key work alright, but I really want to use a keyer).
Thanks!
73 de KG9ML
Michael Miller
Wilmette, IL

11554. Re: TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 04:30:52 UTC
From: David S Lund
Topic: 11553 Message: 11554

> So, I fear I have at the very least blown the final tubes with an
> HD-1410.

I do know that an HD-1410 will key a 520 - that's what I use. There are lots of folks here that will be able to help.

David KB5DRJ

11555. Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 05:45:51 UTC
From: james27613
Topic: 11532 Message: 11555

hi dave,

by design, output is reduced to protect the finals when mode is TUNE,
I bet if you change to CW and with dummy load attached
you will see output on the meter.

I remember 'drive-plate-load' (top row on rig)
to help me tune.

73 james ke4drn

11556. Re: [TS-520_820_530_830] I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 08:40:10 UTC
From: n9wb
Topic: 11532 Message: 11556

We don't flame people who need help with their rigs. And I have often worked on a rig and had new issues to sort out afterward, sometimes accompanied by a room full of smoke and the beeping of the smoke alarm. So please do not be discourage. I applaud your attempt at doing your own preventative maintenance. It is very unlikely that the rig is toasted, particularly if you did not smell smoke.

The problem is probably either that something has accidentally been set wrong or something has become dislodged.

Since you are able to get the 60 ma of idle current, your screen grid switch is on as it should be. The finals are also likely fine. If your carrier control fully up? Use the tune mode. Place the meter switch in ALC with the carrier control fully up. Be sure that you do not have a key plugged into the key jack. Key up the rig and attempt to peak the drive control while watching the meter in the ALC position. Do you get anything ?

If not let us know and we will go from there. If you do get an ALC reading, change the meter to the RF position and peak the plate and load control for maximum.
Be sure that the drive control is fully up.

If you have the optional VFO plugged in, unplug it.

If you are unable to do this, tell us and we will look deeper into the problem.

Vy 73, Walt N9WB

----- Original Message -----
From: mi_magic3
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 17, 2006 10:54 AM
Subject: [TS-520_820_530_830] I think I broke it!!!!

Hi all....Hope someone can give me some tips on what to look for
with a tune up/output problem. I took aprt my 830 and cleaned the
front panel, knobs, etc. I also sprayed contact cleaner on the band
switch and all of the pots I could get to. This rig came from a
heavy smoker and the volume knob was all "scratchy", so I thought
some contact cleaner was in order. I removed the tubes and dusted
those off, oiled the fan bearing and cleaned that area. Re-
assembled and all good on recieve. I connected a 300W dry dummy
load and attempted the tune up procedure. I place the rig in USB,
and do get the 60 mA bias showing up. Placing the rig in TUNE mode
and meter setting to ALC, I do get some metere deflection but only
if I increase the carrier control. I don't seem to be getting and
output power. I do hear a the rig on my 847 on the same frequency
(no antenna connected on the 847), so I think that the driver
section on the 830 is working. Did I break something going into the
rig? On advice on others, I did flip the 830 over during the

cleaning process and touch up the solder connections on the 6146 tube sockets, close inspection showed a fine crack around a few of the pins. I've worked on video monitors before and have seen the same type of solder connection problems on flyback transformers and it would make monitors go dead once they warmed up. I figured re-soldering them would be prudent. I did not have the tubes in the sockets at the time they were being re-soldered. I do not believe I have any solder bridges or shorts. I do see that the heaters are on for all 3 tubes. I sure hope I didn't toast this rig! I want to get it on the air. Any suggestions (yes you can flame me!!!) would be most appreciated.

vy 73
Merry Christmas!

Dave N8HUL

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11557. Re: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 08:42:58 UTC
From: n9wb
Topic: 11480 Message: 11557

Sorry we did not get back to you sooner. Yes, 9 o'clock with the capacitor fully meshed is correct.
Vy 73, Walt N9WB

----- Original Message -----
From: baumbrent
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 17, 2006 7:00 PM
Subject: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs

I'm bringing this post back to the front of the queue because I think it may have been overlooked. I really need to know the starting position for the pointer on the plate adjustment knob so I can tune the 520SE and get back on the air.

In spite of this small problem I fired it up yesterday for a smoke test. The replacement of the 10 meter crystals worked fine. Good oscillation with the calibrator turned on and tuning around the bands I picked up some DX. I picked up a strong 10 or 15 over 9 SSB from a CE3 (Chile)on 20 meters at about 3:30 pm MST. I didn't try to reply because I wasn't sure of my tuning.

Thanks for being a great forum.
73, de K7MEI

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent" <brentbaum5323@...> wrote:
>
> I am now reassembling my 520 SE after having completed a 10 meter
> crystal transplant. However, I have a couple of stumbling blocks.
>
> 1. How do I correctly line up the pointer on the plate control. I know
> it should be pointing toward one end of the scale or other when the
> plates of the variable capacitor are completely meshed, but which end?
>
> 2. The hair pin spring on the chain for the center capacitor of the
> drive control seems to have lost its tension, allowing this capacitor
> to slip out of sync with the other two. It allows one-half to a full
> link worth of slippage. Is there a way to fix this?
>

> Once I get these items fixed I'll dive into the transverter
connection
> retrofit. I'll keep everyone posted on how that goes.
>
> Thanks,
> 73, K7MEI, Brent
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11558. Re: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 09:22:45 UTC
From: n9wb
Topic: 11419 Message: 11558

Do you have a scope? If so, tell us as it will be very useful. Otherwise we will assume that you do not.

First, check to be sure that the 12BY7 is lit.
Next check that the RF board is seated properly and all of the connectors at the top of the board are properly seated.

There is a connection from a point on the coil pack board labeled DRV to a feed through on the final cage wall. Be sure that this has not broken off.

Be sure that the VFO switch is straight up in the VFO position.

If none of this pans out, Make the following checks.

You got the following:

Pin 7 of the 12BY7 - 12by7 plate (Tune Mode, SEND) 306v
This is OK

Pin 8 of the 12BY7 - 12by7 bias voltage (any Mode) 217v
This is the screen grid and is OK

Now check:

Pin 1 of the 12BY7. This is the cathode. Correct reading is 0 V.
Pin 2 of the 12BY7 This is the control grid, should read 4.3 volts or 10 V.
Check it with drive control up and down.

See if you can hear the carrier on a nearby receiver.

Let us know and we will go from here. Again, do you have a scope or an RF probe ?

Vy 73, Walt N9WB

----- Original Message -----
From: k8wvg
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 17, 2006 6:07 PM
Subject: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> TS-820
> Heat up the iron !
>

Well... two steps forward with my TS-820S. With the fix to R13 on the rf board and correct final cathode resistors in place I now easily get

60 ma idle current.

And one backward. Now I have no rf output, no drive when metering ALC
in Tune mode and SEND. Here's what I'm seeing:

- All filaments lit, SG Switch ON, XVERTER Switch OFF, CAR control
full. Q5, D7, R13, R14 on rf board checked good. Known good finals.

- HV(Tune Mode, SEND) 850v
- HV(CW Mode, SEND) 810v
- HV(USB Mode, SEND) 825v

- SG(CW/USB Mode, REC) 228v
- SG(CW Mode, SEND) 208v
- SG(USB Mode, SEND) 211v
- SG(Tune Mode, REC) 112v
- SG(Tune Mode, SEND) 105v

- FG(REC) -92v
- FG(Tune/CW/USB, SEND) -45v

- 12by7 plate (REC) 326v
- 12by7 plate (Tune Mode, SEND) 306v
- 12by7 plate (CW/USB Mode, SEND) 297v
- 12by7 bias voltage (any Mode) 217v

Suggestions as where to experiment next gladly accepted.
73 Les K8WVG

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

11559. Re: FCC Dumps Morse Code Requirements

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 05:57:29 UTC
From: zengmeiste@aol.com
Topic: 11501 Message: 11559

Thanks for posting the notice, Reuben.

Well, that should lighten the bureaucratic load considerably, eh?...
As for me, myself, and I, my Morse training will continue.
I only hope exams will, likewise, continue to be offered.

The only upshot is that my acquisition of a hybrid xcvr may
occur sooner than I'd anticipated; even More reason to find
a ham-friendly environment outside of (near-north) Chicago, Illnois.

I wish all of you a very Merry Christmas, Happy New Year and
a Wunnerful 2007.

Vy 73, Terry Bakowski KC9KEL

[Non-text portions of this message have been removed]

11560. Re: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 16:31:18 UTC
From: BRENT BAUM
Topic: 11480 Message: 11560

Thanks, Walt, and everyone else. I know you folks wouldn't fail me.
K7MEI, Brent

>From: "n9wb" <n9wb@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: Re: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs
>Date: Mon, 18 Dec 2006 03:42:58 -0500
>
>Sorry we did not get back to you sooner. Yes, 9 o'clock with the capacitor
>fully meshed is correct.
>Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: baumbrent
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Sunday, December 17, 2006 7:00 PM
> Subject: [TS-520_820_530_830] Re: TS-520SE Lining up Knobs
>
>
> I'm bringing this post back to the front of the queue because I
> think it may have been overlooked. I really need to know the
> starting position for the pointer on the plate adjustment knob so I
> can tune the 520SE and get back on the air.
>
> In spite of this small problem I fired it up yesterday for a smoke
> test. The replacement of the 10 meter crystals worked fine. Good
> oscillation with the calibrator turned on and tuning around the
> bands I picked up some DX. I picked up a strong 10 or 15 over 9 SSB
> from a CE3 (Chile)on 20 meters at about 3:30 pm MST. I didn't try to
> reply because I wasn't sure of my tuning.
>
> Thanks for being a great forum.
> 73, de K7MEI
>
> --- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
> <brentbaum5323@...> wrote:
> >
> > I am now reassembling my 520 SE after having completed a 10 meter
> > crystal transplant. However, I have a couple of stumbling blocks.
> >
> > 1. How do I correctly line up the pointer on the plate control. I
> know
> > it should be pointing toward one end of the scale or other when
> the

> > plates of the variable capacitor are completely meshed, but which
> end?
> >
> > 2. The hair pin spring on the chain for the center capacitor of
> the
> > drive control seems to have lost its tension, allowing this
> capacitor
> > to slip out of sync with the other two. It allows one-half to a
> full
> > link worth of slippage. Is there a way to fix this?
> >
> > Once I get these items fixed I'll dive into the transverter
> connection
> > retrofit. I'll keep everyone posted on how that goes.
> >
> > Thanks,
> > 73, K7MEI, Brent
> >
>
>
>
>
>
>
>---
>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date:
>12/14/06
>
>
>[Non-text portions of this message have been removed]
>

11561. 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 12:42:33 UTC
From: Steve
Topic: 11561 Message: 11561

So,

What do you guys have in your Auxiliary position on the bandswitch? (830s) Anyone have 60 meters? Anything else?

Curious.

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

11562. Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 17:44:28 UTC
From: ve3tmt
Topic: 11561 Message: 11562

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <sbhanson@...> wrote:
>
> So,
>
> What do you guys have in your Auxiliary position on the bandswitch?
(830s) Anyone have 60 meters? Anything else?
>
> Curious.
>
> Steve in Maine
> ke1lg

Steve,

60m would be a great idea, except us Canadians don't have access to
that band yet. I bet a lot of 11m operators have that band in there!

Max
VE3TMT

11563. Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 20:06:36 UTC
From: carnage_59
Topic: 11561 Message: 11563

About the only receive band that you CANNOT put in the AUX bandswitch would be any frequency range that contains 8.83 MHz because there's a notch filter on the front end that prevents external 8.83 MHz signals from getting into the first IF.

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <sbhanson@...>
wrote:
>
> So,
>
> What do you guys have in your Auxiliary position on the bandswitch?
(830s) Anyone have 60 meters? Anything else?
>
> Curious.
>
> Steve in Maine
> ke1lg
>
> [Non-text portions of this message have been removed]
>

11564. Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 21:44:17 UTC
From: ve3tmt
Topic: 11561 Message: 11564

--- In TS-520_820_530_830@yahoogroups.com, "carnage_59"
<carnage_59@...> wrote:
>
> About the only receive band that you CANNOT put in the AUX bandswitch
> would be any frequency range that contains 8.83 MHz because there's a
> notch filter on the front end that prevents external 8.83 MHz signals
> from getting into the first IF.

How is the AUX band set up anyway? Is a crystal required? I think some
of the coils on the RF board are missing for the AUX position. Perhaps
I am wrong.

Max
VE3TMT

11565. Re: [TS-520_820_530_830] Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-18 23:32:31 UTC
From: Thomas Carney
Topic: 11561 Message: 11565

A crystal is required to set up the PLL in the proper frequency range. Coils with ferrite in them must be installed also. There may have to be some capacitors installed. I'm not sure one can transmit with the coils installed because the proper taps have to be installed on the pi-L output tank to resonate the transmit side with the PA. I haven't looked at it for a number of years but the AUX band MIGHT be a receive-only modification.

ve3tmt <ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "carnage_59"
<carnage_59@...> wrote:
>
> About the only receive band that you CANNOT put in the AUX bandswitch
> would be any frequency range that contains 8.83 MHz because there's a
> notch filter on the front end that prevents external 8.83 MHz signals
> from getting into the first IF.

How is the AUX band set up anyway? Is a crystal required? I think some
of the coils on the RF board are missing for the AUX position. Perhaps
I am wrong.

Max
VE3TMT

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11566. Re: Audio files

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 00:18:02 UTC
From: ve3tmt
Topic: 11566 Message: 11566

Courtney,

I don't know how much luck we will have. I tried uploading a very small audio file and the server says not enough space.

Max
VE3TMT

11567. Re: [TS-520_820_530_830] TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 00:34:24 UTC
From: John Harp
Topic: 11553 Message: 11567

Well there's more people here in the group that can help you that way. Ken is one person who could do the job. There are others like Cliff Holland have a shop too.

But before you go that path, see what comes back from the group. Now's the time when you get to see this resource at work. Give Walt or one of the moderators a chance to comment. This is where you have a learning opportunity. Others here have 520 also or have had them like James. You may still be able to do this yet. Let's see.

magicalmichaelmerlin <magicalmichaelmerlin@...> wrote:
I'm new to the reflector and would appreciate some thoughts on my situation. I purchased a TS-520 at our club's auction last week. I was able to tune the finals without any problem, using a straight key. I made a single QSO, but with a 599 report.
I am aware of the -65V grid block keying set-up of the 520. I thought I would be alright plugging in a Heathkit HD-1410. Unfortunately, all I got was a single continuous tone on plugging it in, so I quickly disconnected it. Too late - no more current at the plate with the meter in the IP setting (LSB mode, for 40M), no readings in the tune position for drive or plate, and of course no powe rout for CW using the straight key. (None at my SWR meter either - I am using an R7000, but have the SWR in line anyway).
So, I fear I have at the very least blown the final tubes with an HD-1410. By the way, the receiver seems to work ok (hard to tell because of band conditiosn lately!) Questions for the group:
Am I wrong about the HD-1410? I thought it was built to accomodate grid block keying. (I wonder (too late) if perhaps the particular unit I have was modified to work with later rigs.)
Could I have lucked out and simply blown a fuse? I am not aware of any fuse in line near the key input.
I don't have a sufficient background to even think about doing my own repairs. There are some fellow hams here in Chicago, who could help me out, but I am seriously thinking of sending the rig to Ken K4EAA. Any comments on this route? Has anyone had him work on a rig (esp the 520) with this type of problem? (There are some very minor issues with the front panel - the dial scale is not properly meshing with the sub-dial, but I can easily live with that).

I should add I am almost entirely a CW op. I've only had my ticket since 1998, but am an extra (the 520 is my first tube rig!). However, I'm a doctor, not an engineer! I like to think I know my limits, so am quite ready to have this repaired by someone else. I must say I really, really like the TS-520 - it meets my needs for what I want, in terms of CW operating - if I can get a keyer into it (I can do straight key work alright, but I really want to use a keyer).
Thanks!

73 de KG9ML
Michael Miller
Wilmette, IL

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11568. Re: [TS-520_820_530_830] 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 00:43:33 UTC
From: John Harp
Topic: 11561 Message: 11568

I don't think 60 meters will be tunable without a realignment. At that you would only be able to do 60 and nothing else. You'd be disappointed I would think.

I don't use the auxillary postion myself.

Steve <sbhanson@...> wrote:
So,

What do you guys have in your Auxiliary position on the bandswitch? (830s) Anyone have 60 meters? Anything else?

Curious.

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11569. TS-520SE Plate Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 01:02:35 UTC
From: baumbrent
Topic: 11569 Message: 11569

After replacing the 10 meter crystals over the weekend I decided I would check how the 520SE loads and tunes. I encountered a curious phenomenom and want to know if it is normal or if I need to do some more repair.

I set the frequency to the 20 meter band and adjusted the IP to 60ma, the Bias pot is as far down as it will go. When I switch through the other bands, without adjusting the Bias, I get the following:
Half hour warm up.
Radio off = 0 ma
Radio on = 20 ma mark(even when switched to ALC, IP, RF or HV when idling/receive mode)
1.8 LSB = 0 change(20 ma)
3.5 LSB = 70 ma
7 LSB = 40 ma
14 USB = 60 ma
21 USB = 40 ma
28 USB = 0 change (20 ma)
28.5 USB = 22 ma
29.1 USB = 0 change (20 ma)

Is this normal, do I need to adjust the Bias for each band? Or is something going away on me?

Also my audio seems way down, doesn't seem to have the same volume. And my meter when set in ALC never did seem to deflect when receiving even a very strong signal (no S units).

Thanks,
K7MEI, Brent

11570. Re: TS-520SE Plate Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 02:30:05 UTC
From: Clif
Topic: 11569 Message: 11570

I think you made a left somewhere and I turned right...

Start over.

The bias is set in the SSB Mode while the radio is in TX and mike gain all the way down, counterclockwise.

The meter switch does nothing in RX mode it only indicates TX readings and only when it TX.

The reading you are getting in Rx is the AGC, not ALC, big difference.

Set the bias on 20m to 60ma IN SSB TX MODE using the bias pot on the side. It should be the same on all bands.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent" <brentbaum5323@...> wrote:
>
> After replacing the 10 meter crystals over the weekend I decided I
> would check how the 520SE loads and tunes. I encountered a curious
> phenomenom and want to know if it is normal or if I need to do some
> more repair.
>
> I set the frequency to the 20 meter band and adjusted the IP to
> 60ma, the Bias pot is as far down as it will go. When I switch
> through the other bands, without adjusting the Bias, I get the
> following:
> Half hour warm up.
> Radio off = 0 ma
> Radio on = 20 ma mark(even when switched to ALC, IP, RF or HV when
> idling/receive mode)
> 1.8 LSB = 0 change(20 ma)
> 3.5 LSB = 70 ma
> 7 LSB = 40 ma
> 14 USB = 60 ma
> 21 USB = 40 ma
> 28 USB = 0 change (20 ma)
> 28.5 USB = 22 ma
> 29.1 USB = 0 change (20 ma)
>
> Is this normal, do I need to adjust the Bias for each band? Or is
> something going away on me?
>
> Also my audio seems way down, doesn't seem to have the same volume.
> And my meter when set in ALC never did seem to deflect when

> receiving even a very strong signal (no S units).
>
> Thanks,
> K7MEI, Brent
>

11571. Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 01:14:53 UTC
From: k8wvg
Topic: 11419 Message: 11571

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do you have a scope? If so, tell us as it will be very useful.
Otherwise we

Have 2 channel PC based scope good to about 20MHz.

> First, check to be sure that the 12BY7 is lit.
> Next check that the RF board is seated properly and all of the
connectors at
> the top of the board are properly seated.

12by7 is lit and rf board connectors reseated.

> There is a connection from a point on the coil pack board labeled
DRV to a
> feed through on the final cage wall. Be sure that this has not
broken off.

No visible connection on the top of the coil pack board (there is no wire wrapped around the DRV stake), but there is continuity from DRV on the coil pack to DRV on the final assembly. The connection must be from the underside of the coil pack board in my unit.

> Be sure that the VFO switch is straight up in the VFO position.
>

Straight up.

> Pin 1 of the 12BY7. This is the cathode. Correct reading is 0 V.

Tests at .3v in Tune Mode, SEND (All voltages WRT the chassis ground lug)

> Pin 2 of the 12BY7 This is the control grid, should read 4.3 volts
or 10 V.
> Check it with drive control up and down.
>

Hmmmm, reads -43v in REC, +.4 in Tune/USB, SEND, and +.3v in CW, SEND. CAR control has no affect.

> See if you can hear the carrier on a nearby receiver.
>

Can hear a weak carrier in CW, SEND. Not heard (or is very weak) in Tune/USB, SEND.

OK, where should I stick that probe?

73 Les K8WVG

11572. Re: TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 03:05:46 UTC
From: w5rkl
Topic: 11553 Message: 11572

The HD-1410 can key 300VDC at 200ma positive keying voltage and
200VDC at 10ma negative keying voltage.

The HD-1410 keyer does not output a voltage on the keying output
jack that can distroy a 6146 final tube. The normal circuit operating
voltage used in the HD-1410 is 5VDC.

There are no jumpers to set to switch between positive
or negative keying. Diodes D4 and D5 automaticlly select the
keying polarity. There may be an occasion when a transmitter requires
the key line to be a few tenths of a volt from ground. If that is the
case, remove R27 and D5 and replace them with a wire jumper.

The HD-1410 resets itself when power is applied. You may or may not
hear a momentary tone, mine sends "N" -. when it's powered on. This
is normal. If your HD-1410 outputs a steady tone when powered on, try
momentarily pressing one of the paddles, this should stop the tone.
If it doesn't then other problems such as a bad IC3, keying
transistors etc, are bad. Also check the speed control to ensure it's
not pulled out. The speed control, when pulled out, keys the output
for tuning the transmitter.

Hope that provides some help with your problem.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Well there's more people here in the group that can help you that
way. Ken is one person who could do the job. There are others like
Cliff Holland have a shop too.
>
> But before you go that path, see what comes back from the group.
Now's the time when you get to see this resource at work. Give Walt
or one of the moderators a chance to comment. This is where you have
a learning opportunity. Others here have 520 also or have had them
like James. You may still be able to do this yet. Let's see.
>
> magicalmichaelmerlin <magicalmichaelmerlin@...> wrote:
> I'm new to the reflector and would appreciate some
thoughts on my
> situation. I purchased a TS-520 at our club's auction last week. I
> was able to tune the finals without any problem, using a straight

> key. I made a single QSO, but with a 599 report.
> I am aware of the -65V grid block keying set-up of the 520. I
> thought I would be alright plugging in a Heathkit HD-1410.
> Unfortunately, all I got was a single continuous tone on plugging
it
> in, so I quickly disconnected it. Too late - no more current at the
> plate with the meter in the IP setting (LSB mode, for 40M), no
> readings in the tune position for drive or plate, and of course no
> powe rout for CW using the straight key. (None at my SWR meter
> either - I am using an R7000, but have the SWR in line anyway).
> So, I fear I have at the very least blown the final tubes with an
> HD-1410. By the way, the receiver seems to work ok (hard to tell
> because of band conditiosn lately!) Questions for the group:
> Am I wrong about the HD-1410? I thought it was built to
> accomodate grid block keying. (I wonder (too late) if perhaps the
> particular unit I have was modified to work with later rigs.)
> Could I have lucked out and simply blown a fuse? I am not aware
> of any fuse in line near the key input.
> I don't have a sufficient background to even think about doing my
> own repairs. There are some fellow hams here in Chicago, who could
> help me out, but I am seriously thinking of sending the rig to Ken
> K4EAA. Any comments on this route? Has anyone had him work on a
> rig (esp the 520) with this type of problem? (There are some very
> minor issues with the front panel - the dial scale is not properly
> meshing with the sub-dial, but I can easily live with that).
>
> I should add I am almost entirely a CW op. I've only had my
> ticket since 1998, but am an extra (the 520 is my first tube rig!).
> However, I'm a doctor, not an engineer! I like to think I know my
> limits, so am quite ready to have this repaired by someone else. I
> must say I really, really like the TS-520 - it meets my needs for
> what I want, in terms of CW operating - if I can get a keyer into
it
> (I can do straight key work alright, but I really want to use a
> keyer).
> Thanks!
> 73 de KG9ML
> Michael Miller
> Wilmette, IL
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]

>

11573. RE: [TS-520_820_530_830] Re: TS-520SE Plate Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 04:33:47 UTC
From: BRENT BAUM
Topic: 11569 Message: 11573

Thanks, Clif. I knew that, for some reason I'm stupid around the radio tonight. All is right in the world of IP now.

Tuning around the dial I hear noone. Either the bands are absolutely flat or I need to get out in the daylight and check my dipole. I did hear some CW on 40 a while back.

K7MEI, Brent

>From: "Clif" <clif@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: TS-520SE Plate Idle Current
>Date: Tue, 19 Dec 2006 02:30:05 -0000
>
>I think you made a left somewhere and I turned right...
>
>Start over.
>
>The bias is set in the SSB Mode while the radio is in TX and mike gain
>all the way down, counterclockwise.
>
>The meter switch does nothing in RX mode it only indicates TX readings
>and only when it TX.
>
>The reading you are getting in Rx is the AGC, not ALC, big difference.
>
>Set the bias on 20m to 60ma IN SSB TX MODE using the bias pot on the
>side. It should be the same on all bands.
>
>Clif
>
>--- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
><brentbaum5323@...> wrote:
> >
> > After replacing the 10 meter crystals over the weekend I decided I
> > would check how the 520SE loads and tunes. I encountered a curious
> > phenomenom and want to know if it is normal or if I need to do some
> > more repair.
> >
> > I set the frequency to the 20 meter band and adjusted the IP to
> > 60ma, the Bias pot is as far down as it will go. When I switch
> > through the other bands, without adjusting the Bias, I get the
> > following:
> > Half hour warm up.
> > Radio off = 0 ma

> > Radio on = 20 ma mark(even when switched to ALC, IP, RF or HV when
> > idling/receive mode)
> > 1.8 LSB = 0 change(20 ma)
> > 3.5 LSB = 70 ma
> > 7 LSB = 40 ma
> > 14 USB = 60 ma
> > 21 USB = 40 ma
> > 28 USB = 0 change (20 ma)
> > 28.5 USB = 22 ma
> > 29.1 USB = 0 change (20 ma)
> >
> > Is this normal, do I need to adjust the Bias for each band? Or is
> > something going away on me?
> >
> > Also my audio seems way down, doesn't seem to have the same volume.
> > And my meter when set in ALC never did seem to deflect when
> > receiving even a very strong signal (no S units).
> >
> > Thanks,
> > K7MEI, Brent
> >
>
>

11574. Re: [TS-520_820_530_830] Re: TS-520SE Plate Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 03:46:57 UTC
From: martin
Topic: 11569 Message: 11574

Hi Brent. Tuning around on 80 just now I hear a few conversations going on. 40 is dead except for broadcast stations. Probably the higher bands are all dead too. That solar flare last Friday is still messing things up bad.

TTYL

BRENT BAUM wrote:
> Thanks, Clif. I knew that, for some reason I'm stupid around the radio
> tonight. All is right in the world of IP now.
>
> Tuning around the dial I hear noone. Either the bands are absolutely flat or
> I need to get out in the daylight and check my dipole. I did hear some CW on
> 40 a while back.
>
> K7MEI, Brent
>
>
>> From: "Clif" <clif@...>
>> Reply-To: TS-520_820_530_830@yahoogroups.com
>> To: TS-520_820_530_830@yahoogroups.com
>> Subject: [TS-520_820_530_830] Re: TS-520SE Plate Idle Current
>> Date: Tue, 19 Dec 2006 02:30:05 -0000
>>
>> I think you made a left somewhere and I turned right...
>>
>> Start over.
>>
>> The bias is set in the SSB Mode while the radio is in TX and mike gain
>> all the way down, counterclockwise.
>>
>> The meter switch does nothing in RX mode it only indicates TX readings
>> and only when it TX.
>>
>> The reading you are getting in Rx is the AGC, not ALC, big difference.
>>
>> Set the bias on 20m to 60ma IN SSB TX MODE using the bias pot on the
>> side. It should be the same on all bands.
>>
>> Clif
>>
>> --- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
>> <brentbaum5323@...> wrote:
>>> After replacing the 10 meter crystals over the weekend I decided I
>>> would check how the 520SE loads and tunes. I encountered a curious

>>> phenomenom and want to know if it is normal or if I need to do some
>>> more repair.
>>>
>>> I set the frequency to the 20 meter band and adjusted the IP to
>>> 60ma, the Bias pot is as far down as it will go. When I switch
>>> through the other bands, without adjusting the Bias, I get the
>>> following:
>>> Half hour warm up.
>>> Radio off = 0 ma
>>> Radio on = 20 ma mark(even when switched to ALC, IP, RF or HV when
>>> idling/receive mode)
>>> 1.8 LSB = 0 change(20 ma)
>>> 3.5 LSB = 70 ma
>>> 7 LSB = 40 ma
>>> 14 USB = 60 ma
>>> 21 USB = 40 ma
>>> 28 USB = 0 change (20 ma)
>>> 28.5 USB = 22 ma
>>> 29.1 USB = 0 change (20 ma)
>>>
>>> Is this normal, do I need to adjust the Bias for each band? Or is
>>> something going away on me?
>>>
>>> Also my audio seems way down, doesn't seem to have the same volume.
>>> And my meter when set in ALC never did seem to deflect when
>>> receiving even a very strong signal (no S units).
>>>
>>> Thanks,
>>> K7MEI, Brent
>>>
>>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11575. RE: [TS-520_820_530_830] Pesky S-Meter (TS830) -- Surprise Ending

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 04:07:35 UTC
From: Ron Hauser
Topic: 9948 Message: 11575

I'm posting this for the amusement of all and so that this long thread has a conclusion in case others follow the same troubleshooting path.

This last weekend my father in law, Fred, who is a retired broadcast engineer and long time ham, was visiting so I showed him what I was doing with this radio. First, I showed him the low voltage result on the AGC line that is supposed to be 2.9v at Q11. After some noodling around in the shop, he pointed out that I was using a plain old DVM for this measurement, and it was pegging the S-meter. So we switched to my VTVM (duh!!!) and the VTVM did not peg the meter, it did not drag the circuit down, and it measured ... 2.9v. So the voltage on the AGC line is fine, I was on a wrong track.

Fred and I then started from scratch looking at the symptom and the signals. I have always thought from listening that the radio was plenty sensitve, that it was hearing good. But in the spirit of starting from scratch, we set it up using an A/B switch and compared with another TS830. This rig is _not_ hearing good, the receive sensitivity is down 20db or so. I don't have a signal generator so this was not easy for me to detect with the ear. We are going to confirm it this coming weekend as I will be visiting for the holiday and we are going to continue with his signal generator.

This sort of explains why I wasn't finding any bad components in the AGC circuit -- it wasn't malfunctioning. It also leads to the next area of testing and troubleshooting, the RF board and front end.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Friday, December 15, 2006 9:36 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick, long time no troubleshooting on this S-meter problem. I recently started correspondence with Tim KA9EAK who reports a similar problem. I took a break from this effort and now that I have some vacation time coming up for the holidays I am revisiting it.

Summary: The symptom is a "dead" S-meter response, the S meter only responds to very big S9++ signals. I tried the S-meter calibration procedure in the operators manual but that did not provide additional sensitivity. I then started testing voltages on the IF board around Q11, Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4), 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in that area and didn't find anything taking this signal down, so I worked back

the other way and measured voltages around Q9 and Q10 on the IF board.
Again I have some discrepancies from nominal, I tested a bunch of components
but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and
deoxit-ed board connections.

At this point I have a lot of measurements and I have tested quite a few
components, but I am not finding the problem because I lack basic
understanding about the radio design. I possibly also lack understanding of
electronics (!) as I've only been a ham for two years. Probably I have too
much data. And not enough critical thinking.

Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting
stuck (but I am having fun poking around in the radio, reading the
schematic, and studying the manuals). Rick, or anyone else, got any ideas?

Thanks!!!

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Sunday, October 22, 2006 12:27 AM
To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k
resistance if I remember right so it pulled the circuit down but not enough
to make it quit all together. Have you checked the voltages on your AV-AVR
board to make sure you have exactly 3.6v and 9v? I would check the
by-pass caps, There aren't that many of them nor are there any other ground
paths in the AGC circuit so you may be able to check resistance with out
lifting them.

73; Rick KC0HH
Lamar, Colorado

Ron Hauser <eichmann@...> wrote:

Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC
line
coming into the IF board (0.00v). Likewise 0v on the RF board
connector #5
pin 1. Working back to Q1 on the RF board, 0 volts on this same
lead,
supposed to be 2.7v on the schematic. When you said you had a bad
disk
ceramic shorted to ground, was it the C45 right here? Unless a
better
recommendation appears I'll lift C45 and R12 to test...

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Tuesday, October 17, 2006 10:04 AM

To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

OK on the voltages ...I would pull the wire plug off of connector #15 on
the IF board and check pin 3 on the plug. . This is the AGC line that brings
the 2.9v onto the IF board. If it checks out for 2.9v then somethng on the
IF board is dragging it down. If it is still 1.12v, than the problem is NOT
on the IF board. The AGC line comes from the RF Board (connector # 5 pin 1).
I am sending a shot of the RF board.... I had a bad disc ceramic capacitor
one time that was shorted ...Drove me nuts until I finally found it.

The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and Q12 that
you already checked. I would check the bypass caps off the transistors the
AGC line goes to and C177 and C184 on the end leg of the AGC to the left of
Q31

We having fun yet?

73' Rick KC0HH
Lamar, Colorado

Ron Hauser wrote:

Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I had
"almost" figured out that is where I want to look.

First I checked the TX/RX relay contacts, and gave them a cleaning with a
piece of paper and some Deoxit. It was looking very bright and shiny when I
opened it up, and I did not get a change in behavior.

Next I checked voltages around Q11, Q12. The supply to R73 and Q11 is 8.98v
(ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as nominal)
4.87v (4.8v specified). That seems pretty close. The two leads of Q11 were
5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be a

problem.

I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
off
the board but all checked out within tolerance. Interesting note,
the
schematic has an error, it has R92 as a typo for R72, that was a
nice bit of
confusion.

I'm thinking that I'm onto something with the values around Q11 but
now I'm
back to poring over the schematic trying to decide where to go next.

BTW, When I go through the calibrate procedure for the S meter I
never get
more than S4 as the biggest peak on the calibrator signal.

Thanks for the help, and any more ideas will be welcome!

All-new Yahoo! Mail
eta> - Fire up a more powerful email and get things done faster.

Do you Yahoo!?
Get on board. You're invited
<http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/mailb
eta> to try the new Yahoo! Mail.

Yahoo! Groups Links

11576. TS-830 RF Board L3, L4 needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 04:31:06 UTC
From: Ron Hauser
Topic: 11576 Message: 11576

So when it turned out that my problem wasn't in the AGC or on the IF board, I started at the antenna and the RF board. I tried to go through the alignment of the ANT and MIX coils, using my RF probe to peak the signal. Well, the ANT coils didn't give any response, couldn't find a peak. The MIX coils would peak, and better as I went up the bands to higher frequency.

So I poked around at TP1, TP2 and I was really not getting RF when I had a nearby transmitter on (I was using my MFJ-259 antenna analyzer with a rubber duck dummy load to get a signal). Gordon had reported a dead receive and found L41 shorted. I attempted to check the 8.83M traps L3, L4. However, I couldn't get them to turn with an alignment tool, even after applying some WD40. Finally I pulled L3, L4, L41 out of the board. L41 ohmed ok, continuity on each side and no continuity across to the other circuit. L3 and L4 both had one winding open, one with continuity. So I took the cans off of these and they were somewhat fried. The reason that I couldn't turn L4 was because all the plastic insulation material in side had melted and slagged to one side. The wires were a mess also. L3 was also melted but not quite into such a mess, I could still see how it was supposed to go. I am guessing this radio took some kind of front end overload? Perhaps a lighting strike or something. Anyway, that brings me to the question...

Anyone have a parts RF board that has L3, L4 that I could purchase? Or alternatively, any advice on finding replacements. Thanks!!!

Ron Hauser
Business Process Analyst
Caravan Ingredients
816-966-0753 x165
816-686-7653 cell

Please note that my email address has changed to
rhauser@...

11577. Re: [TS-520_820_530_830] Re: Audio files

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 07:38:22 UTC
From: n9wb
Topic: 11566 Message: 11577

Place them on the KenwoodMics group. Walt N9WB
----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 18, 2006 7:18 PM
Subject: [TS-520_820_530_830] Re: Audio files

Courtney,

I don't know how much luck we will have. I tried uploading a very
small audio file and the server says not enough space.

Max
VE3TMT

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.23/591 - Release Date: 12/17/06

[Non-text portions of this message have been removed]

11578. Re: [TS-520_820_530_830] TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 10:06:43 UTC
From: n9wb
Topic: 11553 Message: 11578

First, check the switches on the back. Be sure that the SG switch is on.
Be sure that the antenna switch is set to Normal.
If your rig has a Xverter switch, be sure it is off.

Be sure that the VFO switch on the front is straight up in VFO.

Some of these switches may have been bumped when you un-plugged the key.
When tuning up with no key plugged into the key jack, be sure that the carrier control is fully up.

If none of the above helps, there are internal contacts in the key jack that close when there is no key. There may be a problem with one of those contacts that coincidentally occurred at the same time you tried the keyer. All this keyer would have done is simulate a closed key. It should not have caused harm.

Try whistling into the mike on SSB with the mike gain up and see if you get any output indication.

If none of the above helps, let us know and we will go further.

Vy 73, Walt N9WB

----- Original Message -----
From: John Harp
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 18, 2006 7:34 PM
Subject: Re: [TS-520_820_530_830] TS-520 transmitter knocked out by HD-1410

Well there's more people here in the group that can help you that way. Ken is one person who could do the job. There are others like Cliff Holland have a shop too.

But before you go that path, see what comes back from the group. Now's the time when you get to see this resource at work. Give Walt or one of the moderators a chance to comment. This is where you have a learning opportunity. Others here have 520 also or have had them like James. You may still be able to do this yet. Let's see.

magicalmichaelmerlin <magicalmichaelmerlin@...> wrote:
I'm new to the reflector and would appreciate some thoughts on my
situation. I purchased a TS-520 at our club's auction last week. I
was able to tune the finals without any problem, using a straight
key. I made a single QSO, but with a 599 report.
I am aware of the -65V grid block keying set-up of the 520. I
thought I would be alright plugging in a Heathkit HD-1410.
Unfortunately, all I got was a single continuous tone on plugging it
in, so I quickly disconnected it. Too late - no more current at the
plate with the meter in the IP setting (LSB mode, for 40M), no
readings in the tune position for drive or plate, and of course no

powe rout for CW using the straight key. (None at my SWR meter
either - I am using an R7000, but have the SWR in line anyway).
So, I fear I have at the very least blown the final tubes with an
HD-1410. By the way, the receiver seems to work ok (hard to tell
because of band conditiosn lately!) Questions for the group:
Am I wrong about the HD-1410? I thought it was built to
accomodate grid block keying. (I wonder (too late) if perhaps the
particular unit I have was modified to work with later rigs.)
Could I have lucked out and simply blown a fuse? I am not aware
of any fuse in line near the key input.
I don't have a sufficient background to even think about doing my
own repairs. There are some fellow hams here in Chicago, who could
help me out, but I am seriously thinking of sending the rig to Ken
K4EAA. Any comments on this route? Has anyone had him work on a
rig (esp the 520) with this type of problem? (There are some very
minor issues with the front panel - the dial scale is not properly
meshing with the sub-dial, but I can easily live with that).

I should add I am almost entirely a CW op. I've only had my
ticket since 1998, but am an extra (the 520 is my first tube rig!).
However, I'm a doctor, not an engineer! I like to think I know my
limits, so am quite ready to have this repaired by someone else. I
must say I really, really like the TS-520 - it meets my needs for
what I want, in terms of CW operating - if I can get a keyer into it
(I can do straight key work alright, but I really want to use a
keyer).
Thanks!
73 de KG9ML
Michael Miller
Wilmette, IL

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.23/591 - Release Date: 12/17/06

[Non-text portions of this message have been removed]

11579. Re: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 12:22:47 UTC
From: n9wb
Topic: 11419 Message: 11579

In tune, Carrier fullup, Transmit.

Using a 10 x probe if you have one and the scope input on AC not DC, look at the RF level at the grid of the 12 BY7 pin 2. Now look at the plate of the 12BY7 pin 7. If you do not have a X10 probe, you should place a capacitor with a high enough voltage rating to handle the voltage on the plate in series with the probe. With a X10 probe, the internal resistance should be satisfactory. Or check your scope manual and see how high voltage that you can have on the input.

If you have RF on the plate, see if it can be peaked with the drive control. Then place the probe on the DRV point on the bottom of the final board and see what you have there.

Back to the RF board, At the RF-1 connector compare RF signal levels at TIF (10) and VCO (4) points. They should be in the ballpark of the same level. I am thinking TIF might be way low, almost as low as it would normally be in receive.

Let me know.

Vy 73, Walt N9WB

----- Original Message -----
From: k8wvg
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 18, 2006 8:14 PM
Subject: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Do you have a scope? If so, tell us as it will be very useful.
Otherwise we

Have 2 channel PC based scope good to about 20MHz.

> First, check to be sure that the 12BY7 is lit.
> Next check that the RF board is seated properly and all of the
connectors at
> the top of the board are properly seated.

12by7 is lit and rf board connectors reseated.

> There is a connection from a point on the coil pack board labeled
DRV to a
> feed through on the final cage wall. Be sure that this has not
broken off.

No visible connection on the top of the coil pack board (there is no wire wrapped around the DRV stake), but there is continuity from DRV on the coil pack to DRV on the final assembly. The connection must be

from the underside of the coil pack board in my unit.

> Be sure that the VFO switch is straight up in the VFO position.
>

Straight up.

> Pin 1 of the 12BY7. This is the cathode. Correct reading is 0 V.

Tests at .3v in Tune Mode, SEND (All voltages WRT the chassis ground lug)

> Pin 2 of the 12BY7 This is the control grid, should read 4.3 volts
or 10 V.
> Check it with drive control up and down.
>

Hmmmm, reads -43v in REC, +.4 in Tune/USB, SEND, and +.3v in CW, SEND.
CAR control has no affect.

> See if you can hear the carrier on a nearby receiver.
>

Can hear a weak carrier in CW, SEND. Not heard (or is very weak) in
Tune/USB, SEND.

OK, where should I stick that probe?

73 Les K8WVG

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.23/591 - Release Date: 12/17/06

[Non-text portions of this message have been removed]

11580. Re: [TS-520_820_530_830] 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 11:50:13 UTC
From: Another Old Codger
Topic: 11561 Message: 11580

On the TS-530 the AUX position is receive only, I have seen a warning somewhere saying not to attempt to transmit on the AUX position due to possible damage to the PA section.

73 Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Tuesday, December 19, 2006 12:43 AM
Subject: Re: [TS-520_820_530_830] 830s...Aux position...

I don't think 60 meters will be tunable without a realignment. At that you would only be able to do 60 and nothing else. You'd be disappointed I would think.

I don't use the auxillary postion myself.

Steve <sbhanson@...> wrote:
So,

What do you guys have in your Auxiliary position on the bandswitch? (830s) Anyone have 60 meters? Anything else?

Curious.

Steve in Maine
ke1lg

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11581. Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 13:49:52 UTC
From: ve3tmt
Topic: 11561 Message: 11581

--- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
<clattering.ford@...> wrote:
>
> On the TS-530 the AUX position is receive only, I have seen a warning
> somewhere saying not to attempt to transmit on the AUX position due to
> possible damage to the PA section.

How does the AUX band position work on the 830? When I switch to that
position the display goes dead and I have nothing,

Max

11582. Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 14:26:53 UTC
From: k8wvg
Topic: 11419 Message: 11582

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> In tune, Carrier fullup, Transmit.
>
> Using a 10 x probe if you have one and the scope input on AC not DC,
> look at the RF level at the grid of the 12 BY7 pin 2. Now look at >
> the plate of the 12BY7 pin 7.

OK Walt, here we go:

At 7.050MHz and using 1X probe (and series .001uf cap for the plate measurement only):
- 12by7 grid shows .12 vrms at 7MHz, CAR at 10, SEND
- 12by7 plate shows 1.8 vrms at 7Mhz, CAR at 10, SEND (drops to 20 mv rms with at CAR 0)

> If you have RF on the plate, see if it can be peaked with the drive control.

Can peak (to 1.8 vrms), drops lower at Drive control extremes.

>Then place the probe on the DRV point on the bottom of the final
>board and see what you have there.

DRV on final board measures 1.3 vrms at 7MHZ

> Back to the RF board, At the RF-1 connector compare RF signal levels at TIF (10) and VCO (4) points. They should be in the ballpark of the same level. I am thinking TIF might be way low, almost as low as it would normally be in receive.
>

- VCO measures .4 vrms, REC OR SEND
- TIF measures 2mv rms REC, 20mv rms on SEND

> Let me know.
>

I think that covers the requested measurements, let me know if I left something out.

73 Les K8WVG

11583. Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 15:19:30 UTC
From: w5rkl
Topic: 11561 Message: 11583

The AUX band position is for receive only. A specific frequency range coil pack, PLL and front end components must be installed before the AUX bandswitch position will work. Page 11 in the 830 manual gives a brief discription of the AUX position.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger" <clattering.ford@> wrote:
> >
> > On the TS-530 the AUX position is receive only, I have seen a warning
> > somewhere saying not to attempt to transmit on the AUX position due to
> > possible damage to the PA section.
>
> How does the AUX band position work on the 830? When I switch to that
> position the display goes dead and I have nothing,
>
> Max
>

11584. Re: [TS-520_820_530_830] Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 16:09:46 UTC
From: Rick KC0HH
Topic: 11561 Message: 11584

I always wondered about the AUX position only working on receive as there is an AUX position in the Drive Coil section of the RF board (which are adjusted for max ALC in transmit). When I had my original 830S back in 1982, I installed two additional WWV frequencies as it is tough to copy WWV here in Colorado on 10 mhz. I installed 2.500 mhz in the AUX position and I remember I had to order the coilpack and PLL components from Kenwood parts and it was a real pain to do. I also put a 15.00 mhz crystal in the Fixed position (WWVH) that I bought from International Crystal in Oklahoma City. Both worked but the sensitivity was about 10dB down from normal ham frequencies. Somewhere out there is this 830S with the additional freqs in it. Anyone in the list have it?

Rick KC0HH

w5rkl <w5rkl@...> wrote: The AUX band position is for receive only. A specific frequency range coil pack, PLL and front end components must be installed
before the AUX bandswitch position will work. Page 11 in the
830 manual gives a brief discription of the AUX position.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger"
> <clattering.ford@> wrote:
> >
> > On the TS-530 the AUX position is receive only, I have seen a
warning
> > somewhere saying not to attempt to transmit on the AUX position
due to
> > possible damage to the PA section.
>
> How does the AUX band position work on the 830? When I switch to
that
> position the display goes dead and I have nothing,
>
> Max
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11585. Re: [TS-520_820_530_830] 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 18:11:38 UTC
From: Graham Ridgeway
Topic: 11561 Message: 11585

On Tue, 19 Dec 2006 11:50:13 -0000, "Another Old Codger"
<clattering.ford@btinternet.com> wrote:

>On the TS-530 the AUX position is receive only, I have seen a warning
>somewhere saying not to attempt to transmit on the AUX position due to
>possible damage to the PA section.
>
I quote from the 530 'book'

An AUX receive band is also available.
Coilpack [receiver front end] and PLL components must be installed and
aligned for specific receive frequency range desired.

So ....It is RECEIVE ONLY !!

73 Graham M5AAV

11586. Re: [TS-520_820_530_830] TS-830 RF Board L3, L4 needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 17:30:47 UTC
From: martin
Topic: 11576 Message: 11586

Hi Ron. You might go here:
http://www.k4eaa.com/index.html
and email Len about the parts you need. He may have them, as he does
repairs and restorations to these rigs. He is also very helpful.

Good Luck!

Ron Hauser wrote:
> So when it turned out that my problem wasn't in the AGC or on the IF board,
> I started at the antenna and the RF board. I tried to go through the
> alignment of the ANT and MIX coils, using my RF probe to peak the signal.
> Well, the ANT coils didn't give any response, couldn't find a peak. The MIX
> coils would peak, and better as I went up the bands to higher frequency.
>
> So I poked around at TP1, TP2 and I was really not getting RF when I had a
> nearby transmitter on (I was using my MFJ-259 antenna analyzer with a rubber
> duck dummy load to get a signal). Gordon had reported a dead receive and
> found L41 shorted. I attempted to check the 8.83M traps L3, L4. However, I
> couldn't get them to turn with an alignment tool, even after applying some
> WD40. Finally I pulled L3, L4, L41 out of the board. L41 ohmed ok,
> continuity on each side and no continuity across to the other circuit. L3
> and L4 both had one winding open, one with continuity. So I took the cans
> off of these and they were somewhat fried. The reason that I couldn't turn
> L4 was because all the plastic insulation material in side had melted and
> slagged to one side. The wires were a mess also. L3 was also melted but
> not quite into such a mess, I could still see how it was supposed to go. I
> am guessing this radio took some kind of front end overload? Perhaps a
> lighting strike or something. Anyway, that brings me to the question...
>
> Anyone have a parts RF board that has L3, L4 that I could purchase? Or
> alternatively, any advice on finding replacements. Thanks!!!
>
>
>
> Ron Hauser
> Business Process Analyst
> Caravan Ingredients
> 816-966-0753 x165
> 816-686-7653 cell
>
> Please note that my email address has changed to
> rhauser@...
>
>
>

>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11587. Re: TS-830 RF Board L3, L4 needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-19 21:29:54 UTC
From: Clif
Topic: 11576 Message: 11587

Since it melted L3-L4 and that indicates a large overload "read
Lightning" these parts are also normally damaged. Although L41 may ohm
good I doubt it, it usually goes before L3-L4.

Parts:
L1 2.2 uH choke
L2 4.7 uH Chole
L3 L34-0559-05
L4 L34-0558-05
L41 L34-2004-05
C1 CQ92M1H182K 1800pf poly
C2 680pf disc
C3 470pf disc
C4 CQ92M1H152K 1500pf poly
C6 CC45RH1H101 100pf disc
C7 CQ09S1H122K 1200pf poly

I realize this is kinda the shotgun approach but you can go into it
several times and keep replacing or do it once and go on. I've been
thru the step by step enough times to know you won't be replacing too
many parts that are not needed and they are all cheap except the
Kenwood coils.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Ron Hauser" <eichmann@...>
wrote:
>
> So when it turned out that my problem wasn't in the AGC or on the IF
board,
> I started at the antenna and the RF board. I tried to go through the
> alignment of the ANT and MIX coils, using my RF probe to peak the
signal.
> Well, the ANT coils didn't give any response, couldn't find a peak.
The MIX
> coils would peak, and better as I went up the bands to higher
frequency.
>
> So I poked around at TP1, TP2 and I was really not getting RF when I
had a
> nearby transmitter on (I was using my MFJ-259 antenna analyzer with
a rubber
> duck dummy load to get a signal). Gordon had reported a dead
receive and
> found L41 shorted. I attempted to check the 8.83M traps L3, L4.
However, I

> couldn't get them to turn with an alignment tool, even after
applying some
> WD40. Finally I pulled L3, L4, L41 out of the board. L41 ohmed ok,
> continuity on each side and no continuity across to the other
circuit. L3
> and L4 both had one winding open, one with continuity. So I took
the cans
> off of these and they were somewhat fried. The reason that I
couldn't turn
> L4 was because all the plastic insulation material in side had
melted and
> slagged to one side. The wires were a mess also. L3 was also
melted but
> not quite into such a mess, I could still see how it was supposed to
go. I
> am guessing this radio took some kind of front end overload? Perhaps a
> lighting strike or something. Anyway, that brings me to the question...
>
> Anyone have a parts RF board that has L3, L4 that I could purchase? Or
> alternatively, any advice on finding replacements. Thanks!!!
>
>
>
> Ron Hauser
> Business Process Analyst
> Caravan Ingredients
> 816-966-0753 x165
> 816-686-7653 cell
>
> Please note that my email address has changed to
> rhauser@...
>

11588. Re: TS-830 RF Board L3, L4 needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 02:35:11 UTC
From: Gordon
Topic: 11576 Message: 11588

Ron,
I have an extra L4 here. I am in the process of buying a complete RF board and an IF board for the 830, but that deal isn't complete yet. Let me know off list if you are interested in the L4 I have here, and we can work something out.
On the 830 I had that was hard of hearing, It would hear really strong stations but not much else. On That one the L41 ohmed shorted from any terminal to any other. When I opened it up, it was cooked but L3 and L4 were ok !
73,
Gordon
N6WK

--- In TS-520_820_530_830@...m, "Ron Hauser" <eichmann@...> wrote:
>
> So when it turned out that my problem wasn't in the AGC or on the IF board,
> I started at the antenna and the RF board. I tried to go through the
> alignment of the ANT and MIX coils, using my RF probe to peak the signal.
> Well, the ANT coils didn't give any response, couldn't find a peak. The MIX
> coils would peak, and better as I went up the bands to higher frequency.
>
> So I poked around at TP1, TP2 and I was really not getting RF when I had a
> nearby transmitter on (I was using my MFJ-259 antenna analyzer with a rubber
> duck dummy load to get a signal). Gordon had reported a dead receive and
> found L41 shorted. I attempted to check the 8.83M traps L3, L4. However, I
> couldn't get them to turn with an alignment tool, even after applying some
> WD40. Finally I pulled L3, L4, L41 out of the board. L41 ohmed ok,
> continuity on each side and no continuity across to the other circuit. L3
> and L4 both had one winding open, one with continuity. So I took the cans
> off of these and they were somewhat fried. The reason that I couldn't turn
> L4 was because all the plastic insulation material in side had melted and

> slagged to one side. The wires were a mess also. L3 was also
melted but
> not quite into such a mess, I could still see how it was supposed to
go. I
> am guessing this radio took some kind of front end overload? Perhaps a
> lighting strike or something. Anyway, that brings me to the question...
>
> Anyone have a parts RF board that has L3, L4 that I could purchase? Or
> alternatively, any advice on finding replacements. Thanks!!!
>
>
>
> Ron Hauser
> Business Process Analyst
> Caravan Ingredients
> 816-966-0753 x165
> 816-686-7653 cell
>
> Please note that my email address has changed to
> rhauser@...
>

11589. My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 03:47:32 UTC
From: Gordon
Topic: 11589 Message: 11589

I just made a deal and purchased a NON-working TS-830s Gold for a parts rig. Nice, it came with ALL the filters and the guy threw in a VFO-230.
I received it via UPS last night. I hate to commit anything to the bone yard if I can prevent it. Today I placed it on the bench. NO Receive and NO transmit. I found that all the panel lights were burnt out. I replaced all of them and at least had light. The digital display worked. I started doing some checking today and found that the 9 volt supply was high. I adjusted it back to 9 volts, No Problem. I then checked the 3.6 volt supply. Whoa ..... It was 9 volts..... I could NOT adjust it down. I checked all the connectors on the AF board and all were good. I checked VR3 and it was good and clean.
I followed the circuit schematic and was able to locate the problem by inspecting the components.
Anyone want to take a quess what it was ???
I will let you know after I get some guesses.

One reason it didn't transmit was that there were NO tubes, but I knew that when I bought it. I installed good tubes but still No ALC and NO transmit. Voltages to the Final unit looked within specs.
I will fill you in on the TX part tomorrow.

73,
Gordon

11590. Looking for tuning knob

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 03:27:34 UTC
From: Greg Gollan
Topic: 11590 Message: 11590

I'm not sure if I'm breaking any rules making this request but I'm wondering if anyone would have a main VFO knob with the protruding spinner post or the finger indent that they would part with for a reasonable compensation?
Greg
VE1GCG

11591. Re: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 04:04:42 UTC
From: Geoff Hegarty
Topic: 11439 Message: 11591

>From: "n9wb" <n9wb@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: <TS-520_820_530_830@yahoogroups.com>
>Subject: Re: [TS-520_820_530_830] Re: Substituting tube rectifiers with
>diodes.
>Date: Thu, 14 Dec 2006 01:58:19 -0500
>
>I would like to add another comment.
>
>It is my personal belief that all equipment should be turned off when not
>in use. for example, overnight or when leaving home as opposed to leaving
>the rig for an hour of so for dinner or a phone call. this is particularly
>important with older gear. Among many other things, this will reduce heat
>damage.
>
>Some people will argue that gear is best left on 24/7. I just cannot agree
>with that. And particularly not with vintage gear.
>
>Vy 73, Walt N9WB

Hi Group

This is an interesting topic that Walt has raised, and I'd like to hear about others' practice. I always shiver slightly whenever I turn on any hefty piece of electronics, imagining huge inrushes of current into transformers and capacitors, dielectrics creaking with huge voltages suddenly appearing across them and stresses from changing temperatures. There's no doubt that turn-on is the most stressful time for electronics, and following that theory, leaving gear on 24/7/52 is the best idea.

Having said all that, I don't leave my 530S on for any period when I'm not around. As Walt suggests, with older gear where you've probably got lots of components drawing towards the ends of their lives, it's probably better to reduce working hours as much as possible. Or is it?

My main worry is that something's gonna start smoking when I'm not around and I'll end up with fried transformer or worse.

Food for thought.

Another topic: i'd like to thank everyone who has contributed this year, my first with the group. i know it's been said many times, but it's been an absolute delight for me to witness the sharing of knowledge and experience that goes on here as an everyday thing. I've learned lots about my dear old 530 and electronics in general. Bloody marvellous! I hope everyone has a happy and peaceful Christmas. And don't forget to turn the radio off.

Regards to all
Geoff VK2HQA

_____
Advertisement: Fresh jobs daily. Stop waiting for the newspaper. Search now!
www.seek.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT

11592. Re: Looking for tuning knob

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 03:54:49 UTC
From: Greg Gollan
Topic: 11590 Message: 11592

oops sorry,
I should have included it is for a TS-820 with my request
Greg

--- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan" <ggollan@...>
wrote:
>
> I'm not sure if I'm breaking any rules making this request but I'm
> wondering if anyone would have a main VFO knob with the protruding
> spinner post or the finger indent that they would part with for a
> reasonable compensation?
> Greg
> VE1GCG
>

11593. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 05:31:28 UTC
From: David S Lund
Topic: 11439 Message: 11593

> My main worry is that something's gonna start smoking when I'm not
around
> and I'll end up with fried transformer or worse.
>

I used to leave everything on 24 hours a day until one day I was doing nothing and all of a sudden my TS-520SE went POP POP POP POP and smelled of smoke. I'm glad I was home to shut it off. Ever since then I've turned the stuff off at night or when I am going to be gone.

Now my computer stuff on the other hand I leave on all the time.

David KB5DRJ

11594. Re: Looking for tuning knob

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 12:43:18 UTC
From: boat.anchor
Topic: 11590 Message: 11594

Greg
Try
http://www.fingerdimple.com/
regards
Barry in Vancouver
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan"
<ggollan@...> wrote:
>
> oops sorry,
> I should have included it is for a TS-820 with my request
> Greg
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Greg Gollan"
<ggollan@>
> wrote:
> >
> > I'm not sure if I'm breaking any rules making this request but
I'm
> > wondering if anyone would have a main VFO knob with the
protruding
> > spinner post or the finger indent that they would part with for
a
> > reasonable compensation?
> > Greg
> > VE1GCG
> >
>

11595. RE: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 13:42:21 UTC
From: Darwin, Keith
Topic: 11439 Message: 11595

Years ago, at work, I smelled smoke. Quickly traced it to an unattended PC that was left on 24/7. The PS went. Fortunately, I was there to just pull the plug. Had nobody been there, we might have had a fire.

At home, do I want my PC running all the time? Yes, but I don't want the fire risk of an unattended electronics "thing" so I turn it off at night when the family is asleep. Same with the ham gear.

- Keith N1AS -

From: TS-520_820_530_830@yahoogroups.com on behalf of David S Lund
Sent: Wed 12/20/2006 12:31 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Turn off or not turn off?

I used to leave everything on 24 hours a day until one day I was doing nothing and all of a sudden my TS-520SE went POP POP POP POP and smelled of smoke. I'm glad I was home to shut it off. Ever since then I've turned the stuff off at night or when I am going to be gone.

Now my computer stuff on the other hand I leave on all the time.

[Non-text portions of this message have been removed]

11596. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 15:46:00 UTC
From: Bob
Topic: 11439 Message: 11596

>
Well gang, I have a ts830 s here that has a billiom trillion hours
on it.....I never turn it off unless I do maint on it or there is a
bad electrical storm .I ALWAYS leave it on , even when I'm away from
home for days.....guess I feel lucky, or have faith.
I listen to a service net daily , as it operates through out the day
from early morn to late in the evening, so I simply leave the radio
on. I am also net control at time for this group.....and the 830 has
racked up many transmit hours .
Mind you , this has been 24 / 7 for the last 15 years , if not more.
I have never had any problems of any nature.....
All the lite bulbs in the s meter / dial still original.
Digital read out....still good.
HV ....still where it should be.
I replaced finals / driver when power dropped to 80 watts key down.
At nite....I turn the heater switch off.
Every year , I do reg maint on it.....I pop the hood..... blow it out
gently with computer spray air. I lightly spray de oxit on any
control's that I feel might need it. MOST importantly is oiling the
fan with a few drops of lite oil....I even give it a shot of de oxit
to mix with the oil. The fan must work at all times !!!! It's gotta
have air through it.

I have many radios here....even a few high end radios for dx'ing
etc.....but the older series of Kenwood TS radios are hard to beat.
Yes I have replacements for the main 830 if it should ever fail....
Spank'n brand new one in the box....that I turn on every month.
Another stand by 830.....plus a stand by 820....thats 4 Kenwoods.

Of any radio of any mfr....OLD / NEW....I'd take the time proven TS
series of Kenwood.

BOB N3OO

11597. RE: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 15:54:29 UTC
From: Ken Gunton
Topic: 11439 Message: 11597

Bob, will you adopt me?

Ken W8ASA

>
Well gang, I have a ts830 s here that has a billiom trillion hours on it.....I never turn it off unless I do maint on it or there is a bad electrical storm .I ALWAYS leave it on , even when I'm away from home for days.....guess I feel lucky, or have faith. I listen to a service net daily , as it operates through out the day from early morn to late in the evening, so I simply leave the radio on. I am also net control at time for this group.....and the 830 has racked up many transmit hours . Mind you , this has been 24 / 7 for the last 15 years , if not more. I have never had any problems of any nature..... All the lite bulbs in the s meter / dial still original.
Digital read out....still good.
HV ....still where it should be.
I replaced finals / driver when power dropped to 80 watts key down. At nite....I turn the heater switch off. Every year , I do reg maint on it.....I pop the hood..... blow it out gently with computer spray air. I lightly spray de oxit on any
control's that I feel might need it. MOST importantly is oiling the
fan with a few drops of lite oil....I even give it a shot of de oxit to mix with the oil. The fan must work at all times !!!! It's gotta have air through it.

I have many radios here....even a few high end radios for dx'ing etc.....but the older series of Kenwood TS radios are hard to beat. Yes I have replacements for the main 830 if it should ever fail.... Spank'n brand new one in the box....that I turn on every month.
Another stand by 830.....plus a stand by 820....thats 4 Kenwoods.

Of any radio of any mfr....OLD / NEW....I'd take the time proven TS series of Kenwood.

BOB N3OO

11598. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 16:15:37 UTC
From: Bob
Topic: 11439 Message: 11598

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
> Bob, will you adopt me?
>
> Ken W8ASA
>
> HI KEN.......I didn't mean to come across as having money to spend
on all the radio's....I just come across deals that are hard to
believe.....even me , it's hard to believe.....just can't pass up a
good deal on equipment.
BOB N3OO
> >
>

>

11599. RE: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 16:32:03 UTC
From: Ken Gunton
Topic: 11439 Message: 11599

I know what you mean. I have too many radios
myself, but I use each and every one of them
at some time or other, just as you do.

Besides, I don't want you to adopt me because
you have money..... it's because you have all
those cool radios... heh heh

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Bob
Sent: Wednesday, December 20, 2006 11:16 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: Turn off or not turn off?

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
> Bob, will you adopt me?
>
> Ken W8ASA
>
> HI KEN.......I didn't mean to come across as having money to spend
on all the radio's....I just come across deals that are hard to believe.....even
me , it's hard to believe.....just can't pass up a good deal on equipment. BOB
N3OO
> >
>

>

Yahoo! Groups Links

11600. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 16:50:11 UTC
From: Bob
Topic: 11439 Message: 11600

--- In TS-520_820_530_830@yahoogroups.com, "Ken Gunton" <ken@...> wrote:
>
> I know what you mean. I have too many radios
> myself, but I use each and every one of them
> at some time or other, just as you do.
>
> Besides, I don't want you to adopt me because
> you have money..... it's because you have all
> those cool radios... heh heh
>
> :
> >
> > Yes Ken ....seems like each radio has it's own personality LMBO.
BOB N3OO
> > >
> >
>
> >
>
>
>
>
>
> Yahoo! Groups Links
>

11601. Re: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 16:19:31 UTC
From: Thomas Carney
Topic: 11439 Message: 11601

Amen to that!!! I owned a TS-520 in 1976 (sold it and it's STILL going), a TS-820 (wished I never sold it) and I now own three TS-830Ss ... one's damaged and I use it for spare parts, and the other two are still going strong.

My only complaint is the bandswitches do wear out, otherwise, great rigs.

Bob <bob7255khz@...> wrote:

>
Well gang, I have a ts830 s here that has a billiom trillion hours
on it.....I never turn it off unless I do maint on it or there is a
bad electrical storm .I ALWAYS leave it on , even when I'm away from
home for days.....guess I feel lucky, or have faith.
I listen to a service net daily , as it operates through out the day
from early morn to late in the evening, so I simply leave the radio
on. I am also net control at time for this group.....and the 830 has
racked up many transmit hours .
Mind you , this has been 24 / 7 for the last 15 years , if not more.
I have never had any problems of any nature.....
All the lite bulbs in the s meter / dial still original.
Digital read out....still good.
HV ....still where it should be.
I replaced finals / driver when power dropped to 80 watts key down.
At nite....I turn the heater switch off.
Every year , I do reg maint on it.....I pop the hood..... blow it out
gently with computer spray air. I lightly spray de oxit on any
control's that I feel might need it. MOST importantly is oiling the
fan with a few drops of lite oil....I even give it a shot of de oxit
to mix with the oil. The fan must work at all times !!!! It's gotta
have air through it.

I have many radios here....even a few high end radios for dx'ing
etc.....but the older series of Kenwood TS radios are hard to beat.
Yes I have replacements for the main 830 if it should ever fail....
Spank'n brand new one in the box....that I turn on every month.
Another stand by 830.....plus a stand by 820....thats 4 Kenwoods.

Of any radio of any mfr....OLD / NEW....I'd take the time proven TS
series of Kenwood.

BOB N3OO

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11602. Re: TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 16:20:31 UTC
From: magicalmichaelmerlin
Topic: 11553 Message: 11602

Thanks, Walt.
The SG switch is on. I don't see an antenna switch on the back of the TS-520, but I seem to be receiving ok. Ditto with an Xverter switch.
The VFO switch is straight up in VFO.
By the way, Ken Kemski had essentially the same idea - that maybe some of the switches were bumped - but nope.
Visual inspection of the internal connections on the key jack don't show a problem, but I haven't been able to insert a meter probe into them.
By the way, Ken also asked about the HV status. When I switch the meter to read HV, the meter pins to the right (which I assume is normal).
Still no go - no current to the plate at all and no power out when in TUN function with SEND (for LSB mode), as there had been before the incident with the keyer.
I haven't checked the HD-1410 yet, but what I find strange is that the HD-1410 speaker was giving dits and dahs at the exact same time the TS-520 speaker was giving a continuous tone. And, by the way, the HD-1410 has no "hold" knob for keying up a rig. What it has is a pull out of the knob controlling either volume or speed (I forget which) - and it definitely was not pulled out when I had plugged it into the key jack of the 520.
I'm going to ask a friend in our club to open the high voltage box up and see if the cathode resistor is shot, which Ken thought might have happened.
Again, thanks for all the thoughts and suggestions.
73 de KG9ML Mike
-- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> First, check the switches on the back. Be sure that the SG switch is on.
> Be sure that the antenna switch is set to Normal.
> If your rig has a Xverter switch, be sure it is off.
>
> Be sure that the VFO switch on the front is straight up in VFO.
>
> Some of these switches may have been bumped when you un-plugged the key.
> When tuning up with no key plugged into the key jack, be sure that the carrier control is fully up.
>
> If none of the above helps, there are internal contacts in the key jack that close when there is no key. There may be a problem with one of those contacts that coincidentally occurred at the same time

you tried the keyer. All this keyer would have done is simulate a closed key. It should not have caused harm.
>
> Try whistling into the mike on SSB with the mike gain up and see if you get any output indication.
>
> If none of the above helps, let us know and we will go further.
>
> Vy 73, Walt N9WB
>

11603. Re: My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 17:11:19 UTC
From: Gordon
Topic: 11589 Message: 11603

Ok the answer to 9 volts on the 3.6 volt line was due to a broken R15
3.3 k resistor that comes off the RF gain control to ground. This was
a new problwm for me and I am sharing in case someone else runs into
this same problem.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I just made a deal and purchased a NON-working TS-830s Gold for a
> parts rig. Nice, it came with ALL the filters and the guy threw in a
> VFO-230.
> I received it via UPS last night. I hate to commit anything to the
> bone yard if I can prevent it. Today I placed it on the bench.
> NO Receive and NO transmit. I found that all the panel lights were
> burnt out. I replaced all of them and at least had light. The digital
> display worked. I started doing some checking today and found that the
> 9 volt supply was high. I adjusted it back to 9 volts, No Problem.
> I then checked the 3.6 volt supply. Whoa ..... It was 9
> volts..... I could NOT adjust it down. I checked all the connectors
> on the AF board and all were good. I checked VR3 and it was good and
> clean.
> I followed the circuit schematic and was able to locate the problem
> by inspecting the components.
> Anyone want to take a quess what it was ???
> I will let you know after I get some guesses.
>
> One reason it didn't transmit was that there were NO tubes, but I
> knew that when I bought it. I installed good tubes but still No ALC
> and NO transmit. Voltages to the Final unit looked within specs.
> I will fill you in on the TX part tomorrow.
>
>
> 73,
> Gordon
>

11604. Re: My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 18:05:02 UTC
From: Bob
Topic: 11589 Message: 11604

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Ok the answer to 9 volts on the 3.6 volt line was due to a broken R15
> 3.3 k resistor that comes off the RF gain control to ground. This was
> a new problwm for me and I am sharing in case someone else runs into
> this same problem.
>
> 73,
> Gordon
> N6WK
>
> Don't ya just love it when a plan comes together !?!
Enjoy ur new toy....I know ur grin'n.

Let me see....no xmit......ummmm slide switch in back of radio was off
...?
BOB N3OO

>
> >
>

11605. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 18:04:36 UTC
From: w5rkl
Topic: 11439 Message: 11605

I feel that if a piece of gear is going to fail, it doesn't matter whether it is a piece of vintage gear or any of the modern day high priced gear and every piece inbetween.

I firmly believe the longivity of any ham electronic equipment is based on how it's treated/mistreated and/or maintained, something I learned in 22 years of military service. A good maint plan goes a long way in keeping ham gear working and working properly.

I do not believe leaving a piece or pieces of ham gear powered on 24/7 has any useful purpose. Others may disagree and that's fine. That's why I turn my gear OFF when it's not being used, during thunder storms or I'm not going to be home.

Merry Christmas and Happy New Year. :)

73s
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty" <geoff_hegarty@...> wrote:
>
> >From: "n9wb" <n9wb@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: <TS-520_820_530_830@yahoogroups.com>
> >Subject: Re: [TS-520_820_530_830] Re: Substituting tube rectifiers with
> >diodes.
> >Date: Thu, 14 Dec 2006 01:58:19 -0500
> >
> >I would like to add another comment.
> >
> >It is my personal belief that all equipment should be turned off when not
> >in use. for example, overnight or when leaving home as opposed to leaving
> >the rig for an hour of so for dinner or a phone call. this is particularly
> >important with older gear. Among many other things, this will reduce heat
> >damage.
> >
> >Some people will argue that gear is best left on 24/7. I just cannot agree
> >with that. And particularly not with vintage gear.

> >
> >Vy 73, Walt N9WB
>
>
> Hi Group
>
> This is an interesting topic that Walt has raised, and I'd like to
hear
> about others' practice. I always shiver slightly whenever I turn on
any
> hefty piece of electronics, imagining huge inrushes of current into
> transformers and capacitors, dielectrics creaking with huge
voltages
> suddenly appearing across them and stresses from changing
temperatures.
> There's no doubt that turn-on is the most stressful time for
electronics,
> and following that theory, leaving gear on 24/7/52 is the best idea.
>
> Having said all that, I don't leave my 530S on for any period when
I'm not
> around. As Walt suggests, with older gear where you've probably got
lots of
> components drawing towards the ends of their lives, it's probably
better to
> reduce working hours as much as possible. Or is it?
>
> My main worry is that something's gonna start smoking when I'm not
around
> and I'll end up with fried transformer or worse.
>
> Food for thought.
>
> Another topic: i'd like to thank everyone who has contributed this
year, my
> first with the group. i know it's been said many times, but it's
been an
> absolute delight for me to witness the sharing of knowledge and
experience
> that goes on here as an everyday thing. I've learned lots about my
dear old
> 530 and electronics in general. Bloody marvellous! I hope everyone
has a
> happy and peaceful Christmas. And don't forget to turn the radio
off.
>
> Regards to all
> Geoff VK2HQA
>
> --

> Advertisement: Fresh jobs daily. Stop waiting for the newspaper.
Search now!
> www.seek.com.au
> http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fninemsn%2Eseek%
2Ecom%2Eau&_t=757263760&_r=Hotmail_EndText_Dec06&_m=EXT
>

11606. Re: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 18:36:55 UTC
From: Peter A Markavage
Topic: 11439 Message: 11606

I have a master switch at my service bench and one at the operating area.
When I'm not there, asleep, washing the dog, cleaning the gutters, etc.
the master switches are always in the OFF position. Besides the threat
of a "flame-up", "pop-out", or some other nasty failure, it makes no
sense to me to waste electricity, much less also to have to pay for it.
Same is true for all the computer stuff; if I'm not there, it's off.

Pete, wa2cwa

On Wed, 20 Dec 2006 08:42:21 -0500 "Darwin, Keith"
<keith.darwin@...> writes:
> Years ago, at work, I smelled smoke. Quickly traced it to an
> unattended PC that was left on 24/7. The PS went. Fortunately, I
> was there to just pull the plug. Had nobody been there, we might
> have had a fire.
>
> At home, do I want my PC running all the time? Yes, but I don't
> want the fire risk of an unattended electronics "thing" so I turn it
> off at night when the family is asleep. Same with the ham gear.
>
> - Keith N1AS -

11607. TS-820 parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 18:57:00 UTC
From: Richard Harris
Topic: 11607 Message: 11607

There are various parts from a TS-820 for sale on UK ebay - ends 24 December.

Richard G3OTK

Richard Harris
PIPS Technology Ltd,
York House,
School Lane,
Chandlers Ford,
Eastleigh,
Hampshire SO53 4DG
United Kingdom

Tel: +44 (0) 2380 240250 Ext 0267
Tel: +44 (0) 2380 240267 (Direct Line)
Fax: +44 (0) 2380 240251
Mobile: +44 (0) 7808 935630

Web site: www.pipstechnology.com

DISCLAIMER: This electronic mail message and any attachment may contain information that is legally privileged, confidential or exempt from disclosure. It is intended only for the use of the individual or organisation to whom it is addressed. If you are not the intended recipient it is strictly prohibited to disclose, use, store or copy this information.

11608. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 19:41:41 UTC
From: ve3tmt
Topic: 11439 Message: 11608

When I turn off the 830, the VFO 230 shuts off, which shuts off the LED lights in the AT230. Tuner goes to dummy load position, computer is off. Why waste electricity??

Max
VE3TMT

11609. Re: [TS-520_820_530_830] Re: TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 18:27:41 UTC
From: Graham Ridgeway
Topic: 11553 Message: 11609

On Wed, 20 Dec 2006 16:20:31 -0000, "magicalmichaelmerlin"
<magicalmichaelmerlin@...> wrote:

>By the way, Ken also asked about the HV status. When I switch the
>meter to read HV, the meter pins to the right (which I assume is
>normal).

NO !!!!!!!

If it pegs hard over, you have a problem - should 'hover' between
800/900 volts.

73 Graham M5AAV

11610. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 20:28:27 UTC
From: Kevin
Topic: 11439 Message: 11610

I purchased my 830 new in the early 1980's.
I have been turning this rig off/on at least once to several times a day for close to 25 years. In the early days I left the rig on for longer durations. Setting there tuning for long periods for DX. After packetclusters arrived I am able to hear the filtered DX spot in other parts of my house so if it's something I need (I don't really get that many spots for band countries anymore) I go in and work them, turn the rig off again and go about my business. So this has been taking place for, I'm guessing, for over 10 years now. Sometimes the rig may get turned off and on half a dozen times a day I would think. Others just once while I feel like setting there and tune through the bands for before or after work.

I have only replaced the tubes once.
Replaced one component.

Have I just been lucky?
73 Kevin.

I use a strip to turn rig and keyers all off.

>
> This is an interesting topic that Walt has raised, and I'd like to hear
> about others' practice. I always shiver slightly whenever I turn on any
> hefty piece of electronics, imagining huge inrushes of current into
> transformers and capacitors, dielectrics creaking with huge voltages
> suddenly appearing across them and stresses from changing temperatures.
> There's no doubt that turn-on is the most stressful time for electronics,
> and following that theory, leaving gear on 24/7/52 is the best idea.
>
>

11611. TS-830S - Digital Display, 10Hz Position.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 22:54:35 UTC
From: Kevin
Topic: 11611 Message: 11611

Hi All,

Was looking at my radio, and noticed that the display has the 10Hz
position on it, however it is not lit.
Did some checking of the schematic and messages and could not determine
whether this digit could be made to work.
The counter board shows a 6 digit output to the display, so guessing
that it does not work, but wanted to ask the question.
Can it be made to display?

Not that it is a issue, I don't really need it, just that it is there,
and with all the newer radios going down to 1Hz, the 10Hz when fine
tune it.

Regards

Kevin, ZL1KFM.

Now looking for my next TS-830S :)

11612. Re: TS-830S - Digital Display, 10Hz Position.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 00:44:10 UTC
From: ve3tmt
Topic: 11611 Message: 11612

--- In TS-520_820_530_830@yahoogroups.com, "Kevin" <sparcnz@...> wrote:

Can it be made to display?

Was discussed not too long ago Kevin. No the display driver has
outputs only for 6 digits. It has no provision for the 7th.

Max
VE3TMT

11613. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 00:47:40 UTC
From: boat.anchor
Topic: 11439 Message: 11613

Bob
I guess this disproves the old theory of stripping the plate by
leaving the power on when the heaters are off.
best regards
Barry in Vancouver
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@...>
wrote:
>
>
>I never turn it off unless I do maint on it or there is a
> bad electrical storm .I ALWAYS leave it on , even when I'm away from
> home for days.....guess I feel lucky, or have faith.
> At nite....I turn the heater switch off.
> BOB N3OO
>

11614. RE: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 01:02:29 UTC
From: Geoff Hegarty
Topic: 11439 Message: 11614

Hi Barry

Could you tell us a little more about "stripping the plate" please. I haven't heard about this, and it sounds awful.

Regards
Geoff VK2HQA

>From: "boat.anchor" <boat.anchor@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
>Date: Thu, 21 Dec 2006 00:47:40 -0000
>
>Bob
>I guess this disproves the old theory of stripping the plate by
>leaving the power on when the heaters are off.
>best regards
>Barry in Vancouver
>VA7GEM
>
>--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@...>
>wrote:
> >
> >
> >I never turn it off unless I do maint on it or there is a
> > bad electrical storm .I ALWAYS leave it on , even when I'm away from
> > home for days.....guess I feel lucky, or have faith.
> > At nite....I turn the heater switch off.
> > BOB N3OO
> >
>
>

Join the millions of Australians using Live Search. Try live.com.au
http://ninemsn.com.au/share/redir/adTrack.asp?mode=click&clientID=740&referral=million&URL=http://live.com.au

11615. Re: [TS-520_820_530_830] Re: TS-830S - Digital Display, 10Hz Position.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 01:12:00 UTC
From: Kevin & Natalia
Topic: 11611 Message: 11615

Max,

Thanks

Kev.

Get Skype and call me for free.

----- Original Message -----
From: ve3tmt
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 21, 2006 1:44 PM
Subject: [TS-520_820_530_830] Re: TS-830S - Digital Display, 10Hz Position.

--- In TS-520_820_530_830@yahoogroups.com, "Kevin" <sparcnz@...> wrote:

Can it be made to display?

Was discussed not too long ago Kevin. No the display driver has
outputs only for 6 digits. It has no provision for the 7th.

Max
VE3TMT

[Non-text portions of this message have been removed]

11616. RE: [TS-520_820_530_830] Re: TS-830 RF Board L3, L4 needed

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-20 23:52:56 UTC
From: Ron Hauser
Topic: 11576 Message: 11616

Clif, thanks for the feedback. I don't mind replacing several parts, especially easy to find cheap ones(!). :)

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Clif
Sent: Tuesday, December 19, 2006 3:30 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-830 RF Board L3, L4 needed

Since it melted L3-L4 and that indicates a large overload "read Lightning" these parts are also normally damaged. Although L41 may ohm good I doubt it, it usually goes before L3-L4.

Parts:
L1 2.2 uH choke
L2 4.7 uH Chole
L3 L34-0559-05
L4 L34-0558-05
L41 L34-2004-05
C1 CQ92M1H182K 1800pf poly
C2 680pf disc
C3 470pf disc
C4 CQ92M1H152K 1500pf poly
C6 CC45RH1H101 100pf disc
C7 CQ09S1H122K 1200pf poly

I realize this is kinda the shotgun approach but you can go into it several times and keep replacing or do it once and go on. I've been thru the step by step enough times to know you won't be replacing too many parts that are not needed and they are all cheap except the Kenwood coils.

Clif

--- In TS-520_820_530_830@yahoogroups.com, "Ron Hauser" <eichmann@...> wrote:
>
> So when it turned out that my problem wasn't in the AGC or on the IF board,
> I started at the antenna and the RF board. I tried to go through the
> alignment of the ANT and MIX coils, using my RF probe to peak the signal.
> Well, the ANT coils didn't give any response, couldn't find a peak. The MIX
> coils would peak, and better as I went up the bands to higher

frequency.
>
> So I poked around at TP1, TP2 and I was really not getting RF when I
had a
> nearby transmitter on (I was using my MFJ-259 antenna analyzer with
a rubber
> duck dummy load to get a signal). Gordon had reported a dead
receive and
> found L41 shorted. I attempted to check the 8.83M traps L3, L4.
However, I
> couldn't get them to turn with an alignment tool, even after
applying some
> WD40. Finally I pulled L3, L4, L41 out of the board. L41 ohmed ok,
> continuity on each side and no continuity across to the other
circuit. L3
> and L4 both had one winding open, one with continuity. So I took
the cans
> off of these and they were somewhat fried. The reason that I
couldn't turn
> L4 was because all the plastic insulation material in side had
melted and
> slagged to one side. The wires were a mess also. L3 was also
melted but
> not quite into such a mess, I could still see how it was supposed to
go. I
> am guessing this radio took some kind of front end overload? Perhaps a
> lighting strike or something. Anyway, that brings me to the question...
>
> Anyone have a parts RF board that has L3, L4 that I could purchase? Or
> alternatively, any advice on finding replacements. Thanks!!!
>
>
>
> Ron Hauser
> Business Process Analyst
> Caravan Ingredients
> 816-966-0753 x165
> 816-686-7653 cell
>
> Please note that my email address has changed to
> rhauser@...
>

Yahoo! Groups Links

11617. Wanted...Meter bracket for TS830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 01:52:54 UTC
From: ve3tmt
Topic: 11617 Message: 11617

Would anyone have the bracket that holds the meter lamp on the 830?
Looking for one for a project.

Max
VE3TMT

11618. TS-820 Magicom

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 02:06:05 UTC
From: Edwin
Topic: 11618 Message: 11618

MAGICOM
RF PROCESSOR FOR THE TS-820

Does any one know anything about the Magicom "RF Processor for the TS-820". I've found one in my 820, never knew it was there, and now it's in the middle of a trouble shooting project that I have going on.
WB2JKJ,
http://www.hamradiomanuals.com/view_manual.php?m=144&PHPSESSID=b0f93f68d406401ed9e7a7d6a346aab5
has what I believe to be the manual but wants $16.00 for it. I would like to take a look see for a little less than that. Any help would be appreciated.
Edwin
N1DFB

[Non-text portions of this message have been removed]

11619. Re: [TS-520_820_530_830] TS-830S - Digital Display, 10Hz Position.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 02:54:35 UTC
From: John Harp
Topic: 11611 Message: 11619

Kevin, the counters are built that way from the manufacturer. Someone else mentioned this recently also.

Unless you want it to read a zero, you may not find it worth turning on. That's a digits position of such small proportion that it's not worth the effort. The counter gets you in pretty close to where you want to be. Compare it against an analog dial sometime to get a feel for the difference.

Kevin <sparcnz@...> wrote:
Hi All,

Was looking at my radio, and noticed that the display has the 10Hz
position on it, however it is not lit.
Did some checking of the schematic and messages and could not determine
whether this digit could be made to work.
The counter board shows a 6 digit output to the display, so guessing
that it does not work, but wanted to ask the question.
Can it be made to display?

Not that it is a issue, I don't really need it, just that it is there,
and with all the newer radios going down to 1Hz, the 10Hz when fine
tune it.

Regards

Kevin, ZL1KFM.

Now looking for my next TS-830S :)

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11620. Re: [TS-520_820_530_830] Re: My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 03:21:36 UTC
From: John Harp
Topic: 11589 Message: 11620

Boy, thats an uncommon one. Was it broken because of some mechanical force against it?

Gordon <n6wk@...> wrote: Ok the answer to 9 volts on the 3.6 volt line was due to a broken R15
3.3 k resistor that comes off the RF gain control to ground. This was
a new problwm for me and I am sharing in case someone else runs into
this same problem.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I just made a deal and purchased a NON-working TS-830s Gold for a
> parts rig. Nice, it came with ALL the filters and the guy threw in a
> VFO-230.
> I received it via UPS last night. I hate to commit anything to the
> bone yard if I can prevent it. Today I placed it on the bench.
> NO Receive and NO transmit. I found that all the panel lights were
> burnt out. I replaced all of them and at least had light. The digital
> display worked. I started doing some checking today and found that the
> 9 volt supply was high. I adjusted it back to 9 volts, No Problem.
> I then checked the 3.6 volt supply. Whoa ..... It was 9
> volts..... I could NOT adjust it down. I checked all the connectors
> on the AF board and all were good. I checked VR3 and it was good and
> clean.
> I followed the circuit schematic and was able to locate the problem
> by inspecting the components.
> Anyone want to take a quess what it was ???
> I will let you know after I get some guesses.
>
> One reason it didn't transmit was that there were NO tubes, but I
> knew that when I bought it. I installed good tubes but still No ALC
> and NO transmit. Voltages to the Final unit looked within specs.
> I will fill you in on the TX part tomorrow.
>
>
> 73,
> Gordon
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11621. Re: [TS-520_820_530_830] TS-520SE Plate Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 03:35:02 UTC
From: John Harp
Topic: 11569 Message: 11621

no your right something is off. Don't use the transmit any more than you need to right now. Something may be out of alignment.

baumbrent <brentbaum5323@...> wrote: After replacing the 10 meter crystals over the weekend I decided I
would check how the 520SE loads and tunes. I encountered a curious
phenomenom and want to know if it is normal or if I need to do some
more repair.

I set the frequency to the 20 meter band and adjusted the IP to
60ma, the Bias pot is as far down as it will go. When I switch
through the other bands, without adjusting the Bias, I get the
following:
Half hour warm up.
Radio off = 0 ma
Radio on = 20 ma mark(even when switched to ALC, IP, RF or HV when
idling/receive mode)
1.8 LSB = 0 change(20 ma)
3.5 LSB = 70 ma
7 LSB = 40 ma
14 USB = 60 ma
21 USB = 40 ma
28 USB = 0 change (20 ma)
28.5 USB = 22 ma
29.1 USB = 0 change (20 ma)

Is this normal, do I need to adjust the Bias for each band? Or is
something going away on me?

Also my audio seems way down, doesn't seem to have the same volume.
And my meter when set in ALC never did seem to deflect when
receiving even a very strong signal (no S units).

Thanks,
K7MEI, Brent

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11622. RE: [TS-520_820_530_830] Pesky S-Meter (TS830) -- Surprise Ending

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 03:29:49 UTC
From: John Harp
Topic: 9948 Message: 11622

Yes Ron, high impedance meter will load a circuit down less. As you can see it does make a difference.

Ok, so maybe it's time to invest in a signal generator. But do keep a high VTVM handy, an oscilloscope is nice that way too.

Ron Hauser <eichmann@...> wrote:
I'm posting this for the amusement of all and so that this long thread has a conclusion in case others follow the same troubleshooting path.

This last weekend my father in law, Fred, who is a retired broadcast engineer and long time ham, was visiting so I showed him what I was doing with this radio. First, I showed him the low voltage result on the AGC line that is supposed to be 2.9v at Q11. After some noodling around in the shop, he pointed out that I was using a plain old DVM for this measurement, and it was pegging the S-meter. So we switched to my VTVM (duh!!!) and the VTVM did not peg the meter, it did not drag the circuit down, and it measured ... 2.9v. So the voltage on the AGC line is fine, I was on a wrong track.

Fred and I then started from scratch looking at the symptom and the signals. I have always thought from listening that the radio was plenty sensitve, that it was hearing good. But in the spirit of starting from scratch, we set it up using an A/B switch and compared with another TS830. This rig is _not_ hearing good, the receive sensitivity is down 20db or so. I don't have a signal generator so this was not easy for me to detect with the ear. We are going to confirm it this coming weekend as I will be visiting for the holiday and we are going to continue with his signal generator.

This sort of explains why I wasn't finding any bad components in the AGC circuit -- it wasn't malfunctioning. It also leads to the next area of testing and troubleshooting, the RF board and front end.

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ron Hauser
Sent: Friday, December 15, 2006 9:36 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Rick, long time no troubleshooting on this S-meter problem. I recently started correspondence with Tim KA9EAK who reports a similar problem. I took a break from this effort and now that I have some vacation time coming up for the holidays I am revisiting it.

Summary: The symptom is a "dead" S-meter response, the S meter only responds to very big S9++ signals. I tried the S-meter calibration procedure in the operators manual but that did not provide additional

sensitivity. I then started testing voltages on the IF board around Q11, Q12 and found that the AGC line that is supposed to be 2.9v at Q11 is low (1.12v). This same low voltage is seen at the plug #15 wire 3 from the RF board., and on over to Q1 on the RF board. Measured(nominal): 12.09(12.4), 0.99(1.0), 0.86(2.7), 0.68(1.1[-2.9]). I tested quite a few components in that area and didn't find anything taking this signal down, so I worked back the other way and measured voltages around Q9 and Q10 on the IF board. Again I have some discrepancies from nominal, I tested a bunch of components but didn't find a bad one. I also verified the 9.0v and 3.6v supply, and deoxit-ed board connections.

At this point I have a lot of measurements and I have tested quite a few components, but I am not finding the problem because I lack basic understanding about the radio design. I possibly also lack understanding of electronics (!) as I've only been a ham for two years. Probably I have too much data. And not enough critical thinking.

Something is pulling the AGC line down from 2.9v to 1.12v and I'm getting stuck (but I am having fun poking around in the radio, reading the schematic, and studying the manuals). Rick, or anyone else, got any ideas?

Thanks!!!

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Sunday, October 22, 2006 12:27 AM
To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

Yes, I had a shorted ceramic but it wasn't a dead short. It had about 3k resistance if I remember right so it pulled the circuit down but not enough to make it quit all together. Have you checked the voltages on your AV-AVR board to make sure you have exactly 3.6v and 9v? I would check the by-pass caps, There aren't that many of them nor are there any other ground paths in the AGC circuit so you may be able to check resistance with out lifting them.

73; Rick KC0HH
Lamar, Colorado

Ron Hauser <eichmann@...> wrote:

Ok we are getting somewhere now. I do _not_ have the 2.9v on the AGC line
coming into the IF board (0.00v). Likewise 0v on the RF board connector #5
pin 1. Working back to Q1 on the RF board, 0 volts on this same lead,
supposed to be 2.7v on the schematic. When you said you had a bad disk

ceramic shorted to ground, was it the C45 right here? Unless a
better
recommendation appears I'll lift C45 and R12 to test...

-----Original Message-----
From: Rick KC0HH [mailto:kc0hh@...]
Sent: Tuesday, October 17, 2006 10:04 AM
To: Ron Hauser
Subject: RE: [TS-520_820_530_830] Pesky S-Meter (TS830)

Hi Ron,

OK on the voltages ...I would pull the wire plug off of connector
#15 on
the IF board and check pin 3 on the plug. . This is the AGC line
that brings
the 2.9v onto the IF board. If it checks out for 2.9v then somethng
on the
IF board is dragging it down. If it is still 1.12v, than the problem
is NOT
on the IF board. The AGC line comes from the RF Board (connector # 5
pin 1).
I am sending a shot of the RF board.... I had a bad disc ceramic
capacitor
one time that was shorted ...Drove me nuts until I finally found it.

The AGC line on the I F board goes to Q4, Q8 and Q10 plus Q11 and
Q12 that
you already checked. I would check the bypass caps off the
transistors the
AGC line goes to and C177 and C184 on the end leg of the AGC to the
left of
Q31

We having fun yet?

73' Rick KC0HH
Lamar, Colorado

Ron Hauser wrote:

Hi Rick, thanks for pointing me to Q11 and Q12 on the IF board... I
had
"almost" figured out that is where I want to look.

First I checked the TX/RX relay contacts, and gave them a cleaning
with a
piece of paper and some Deoxit. It was looking very bright and shiny
when I
opened it up, and I did not get a change in behavior.

Next I checked voltages around Q11, Q12. The supply to R73 and Q11
is 8.98v

(ok). The three leads of Q12 are 0v (ok), 4.24v (4.3v specified as
nominal)
4.87v (4.8v specified). That seems pretty close. The two leads of
Q11 were
5.92v (5.7v specified), and 1.12v (2.9v specified). That seems to be
a
problem.

I also checked the resistors around VR2, VR3. I pulled R72, R73, R74
off
the board but all checked out within tolerance. Interesting note,
the
schematic has an error, it has R92 as a typo for R72, that was a
nice bit of
confusion.

I'm thinking that I'm onto something with the values around Q11 but
now I'm
back to poring over the schematic trying to decide where to go next.

BTW, When I go through the calibrate procedure for the S meter I
never get
more than S4 as the biggest peak on the calibrator signal.

Thanks for the help, and any more ideas will be welcome!

All-new Yahoo! Mail
eta> - Fire up a more powerful email and get things done faster.

Do you Yahoo!?
Get on board. You're invited
<http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/mailb
eta> to try the new Yahoo! Mail.

Yahoo! Groups Links

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11623. Re: [TS-520_820_530_830] Re: 830s...Aux position...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 03:46:27 UTC
From: John Harp
Topic: 11561 Message: 11623

I've seen that in my 830's in the past also Max. I think they've built something into the circuits to prevent accidental transmit from damageing the radio. Sound piece of mind for you and I.

ve3tmt <ve3tmt@...> wrote: --- In TS-520_820_530_830@yahoogroups.com, "Another Old Codger" <clattering.ford@...> wrote:
>
> On the TS-530 the AUX position is receive only, I have seen a warning
> somewhere saying not to attempt to transmit on the AUX position due to
> possible damage to the PA section.

How does the AUX band position work on the 830? When I switch to that position the display goes dead and I have nothing,

Max

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11624. TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 04:08:04 UTC
From: dug
Topic: 11624 Message: 11624

I have a TS520 that has been a workhorse for years. It's giving me some fits right now. I thought the driver was the culprit but after turning it on tonight I'm confused. The symptoms seem to keep shifting on me, so I'm missing something. Help?

Over the past month I've noticed that output has been dropping, even with fresh finals that have been neutralized. During tune-up procedure done as from the manual it's been giving less of a reading when adjusting drive. This weekend it gave □no- reading. Hence my thought of the driver. Now the oddities grow The SG switch was returned to proper setting after neutralization, btw.

Tonight I decided to use the rig for some listening while my XYL plays video games. SSB signals are booming in. Then I switch to CW and get silence on all bands. It doesn't seem to be a switch issue. The only thing I can get is some pop when switching the VFO knob. No, I can't test against the crystal calibrator. The previous owner disabled it somehow and the rig has always been so stable I haven't needed to troubleshoot it.

BTW, I've also noticed what seems to be □increased- sensitivity on reception over the same time period. It doesn't seem to matter much what setting the antenna tuner is in anymore; I notice only about one S-unit drop when on the dummy load. Removing the antenna from the ATU does affect things, as does removing the ATU from the rig. A different antenna tuner gives the same result. During the past month the radio has been exposed to some cold weather; into the 30's for a few nights. Could this have damaged some of the 33 year old capacitors?

When it comes to the innards of my radio I'm not the most clued in, so I realize that I've probably missed something really basic. Especially with the ATU; I hear a bell ringing in the back of my mind on that . That in mind, please be slow as to answering since my XYL is just about to say yes to a nice new ft897. I can fix this rig AFTER that.

73's and thanks in advance,
Doug KC4RSL

11625. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 04:38:13 UTC
From: boat.anchor
Topic: 11439 Message: 11625

Goeff
This was just a flash fom the past. I took my training way back when tubes were king and there has been a lot of water under the bridge since then. In fact it's been 20 years since I looked at any component level electronics.
It was not plate stripping I was thinking of but should have read cathode stripping. It used to be common belief that applying power to the tubes without preheating the filaments would strip the cathodes of their emitting elements, for lack of a better description. A quick Google on cathode stripping reveals this only happens when the HV exceeds approx 10 KV. Should not be a problem for us.
best regards
Barry in Vancouver
VA7GEM

--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty" <geoff_hegarty@...> wrote:
>
> Hi Barry
>
> Could you tell us a little more about "stripping the plate" please. I
> haven't heard about this, and it sounds awful.
>
> Regards
> Geoff VK2HQA
>
>
> >From: "boat.anchor" <boat.anchor@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> >Date: Thu, 21 Dec 2006 00:47:40 -0000
> >
> >Bob
> >I guess this disproves the old theory of stripping the plate by
> >leaving the power on when the heaters are off.
> >best regards
> >Barry in Vancouver
> >VA7GEM
> >
> >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> >wrote:
> > >

> > >
> > >I never turn it off unless I do maint on it or there is a
> > > bad electrical storm .I ALWAYS leave it on , even when I'm
away from
> > > home for days.....guess I feel lucky, or have faith.
> > > At nite....I turn the heater switch off.
> > > BOB N3OO
> > >
> >
> >
>
> _____
> Join the millions of Australians using Live Search. Try
live.com.au
> http://ninemsn.com.au/share/redir/adTrack.asp?
mode=click&clientID=740&referral=million&URL=http://live.com.au
>

11626. Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 10:59:18 UTC
From: mi_magic3
Topic: 11532 Message: 11626

Hello to everyone and thank you for the replies...Sorry I haven't had a chance to try the suggestions, been super busy with work and the holidays. I am off work all next week, so some hamming is in order! For those that suggested I read the manual, I did. That was the first thing I downloaded after getting the rig. I have a copy of the service manual too. I have a friend with a 530 and he had trouble at first too. I"m sure its just something I am doing wrong. Appreciate everyone's input.

Merry Christmas es vy 73

Dave N8HUL

11627. Re: [TS-520_820_530_830] Re: TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 12:30:24 UTC
From: n9wb
Topic: 11553 Message: 11627

Meter pinning on HV is not normal. Replace all of the resistors on the HV unit board with the exact same ohms and wattage.
Check R2 and R3, the cathode resistors on the Final Unit board. In circuit they should measure 5 ohms. They are two 10 ohm resistors in parallel. Or replace them with 10 ohm each 1 watt. Use only 1 watt. Increasing the wattage value of these resistors can cause serious damage if a tube shorts.

The HD 1410 was functioning properly, but it's switching kept the transmitter keyed continuously. That is why it was sending dits while the transmitter keyed continuously.

Vy 73, Walt N9WB

----- Original Message -----
From: magicalmichaelmerlin
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 20, 2006 11:20 AM
Subject: [TS-520_820_530_830] Re: TS-520 transmitter knocked out by HD-1410

Thanks, Walt.
The SG switch is on. I don't see an antenna switch on the back of the TS-520, but I seem to be receiving ok. Ditto with an Xverter switch.
The VFO switch is straight up in VFO.
By the way, Ken Kemski had essentially the same idea - that maybe some of the switches were bumped - but nope.
Visual inspection of the internal connections on the key jack don't show a problem, but I haven't been able to insert a meter probe into them.
By the way, Ken also asked about the HV status. When I switch the meter to read HV, the meter pins to the right (which I assume is normal).
Still no go - no current to the plate at all and no power out when in TUN function with SEND (for LSB mode), as there had been before the incident with the keyer.
I haven't checked the HD-1410 yet, but what I find strange is that the HD-1410 speaker was giving dits and dahs at the exact same time the TS-520 speaker was giving a continuous tone. And, by the way, the HD-1410 has no "hold" knob for keying up a rig. What it has is a pull out of the knob controlling either volume or speed (I forget which) - and it definitely was not pulled out when I had plugged it into the key jack of the 520.
I'm going to ask a friend in our club to open the high voltage box up and see if the cathode resistor is shot, which Ken thought might have happened.
Again, thanks for all the thoughts and suggestions.

73 de KG9ML Mike
-- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> First, check the switches on the back. Be sure that the SG switch
is on.
> Be sure that the antenna switch is set to Normal.
> If your rig has a Xverter switch, be sure it is off.
>
> Be sure that the VFO switch on the front is straight up in VFO.
>
> Some of these switches may have been bumped when you un-plugged
the key.
> When tuning up with no key plugged into the key jack, be sure that
the carrier control is fully up.
>
> If none of the above helps, there are internal contacts in the key
jack that close when there is no key. There may be a problem with
one of those contacts that coincidentally occurred at the same time
you tried the keyer. All this keyer would have done is simulate a
closed key. It should not have caused harm.
>
> Try whistling into the mike on SSB with the mike gain up and see
if you get any output indication.
>
> If none of the above helps, let us know and we will go further.
>
> Vy 73, Walt N9WB
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date: 12/18/06

[Non-text portions of this message have been removed]

11628. Re: [TS-520_820_530_830] TS-820 Magicom

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 14:11:41 UTC
From: n9wb
Topic: 11618 Message: 11628

Is this the manual for the Magicom he is wanting $16.00 for ? I think I can come up with one for $ 15.95.

Just joking, if I can find it I will make a copy and send it to you for free. It is a one or two page manual.
This is a device that makes the RF processor in the TS-820 a RF limiter. It is not all that bad. It was made by W6TOG and uses an FM limiter chip as the RF clipper. The number is rubbed off of the limiter chip and I have not been able to identify it.

Gordon was kind enough to send me one that I reverse engineered except for identifying the chip. I believe that the chip is the same at a TA7060P except that the TA7060P is an inline package and the chip in the Magicom is a round metal one.

As I remember. C-133 was removed to disable the gain reduction circuit in the original compressor and C-139 was removed. I believe that R-105 and R-110 may have also been removed. I believe that the input and output of the Magicom went to either side of where C-139 was. I believe there was a connection to the side of where C-133 was that goes to D-39 and 40. This makes the comp meter work. There is also either a 9 or 14 volt connection and the board is grounded where it solders to the back of the IF board.

To remove it, remove the Magicom board and all of the wires. Replace C-133 with a 22 pf ceramic disc capacitor. Replace C-139 with a .01 uf ceramic disk capacitor. Replace R- 105 and 110 with a 10 K 1/4 watt resistor each.

It works pretty good. Should it have a problem, it will only affect operation with the processor on.

This information is from memory and I am 57 years olde, so I cannot guarantee the accuracy of it.

BTW, if anybody knows the number of this chip i would find it interesting. I bet it was a common FM IF limiter in the day.

Vy 73, Walt N9WB

----- Original Message -----
From: Edwin
To: 820
Sent: Wednesday, December 20, 2006 9:06 PM
Subject: [TS-520_820_530_830] TS-820 Magicom

MAGICOM
RF PROCESSOR FOR THE TS-820

Does any one know anything about the Magicom "RF Processor for the TS-820".
I've found one in my 820, never knew it was there, and now it's in the
middle of a trouble shooting project that I have going on.
WB2JKJ,
http://www.hamradiomanuals.com/view_manual.php?m=144&PHPSESSID=b0f93f68d406401ed9e7a7d6a346aab5
has what I believe to be the manual but wants $16.00 for it. I would like to
take a look see for a little less than that. Any help would be appreciated.
Edwin
N1DFB

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date: 12/18/06

11629. Re: [TS-520_820_530_830] TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 14:16:31 UTC
From: n9wb
Topic: 11624 Message: 11629

I believe that you have an open ground on a coax jumper. Walt N9WB
----- Original Message -----
From: dug
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 20, 2006 11:08 PM
Subject: [TS-520_820_530_830] TS520 drive and reception issues

I have a TS520 that has been a workhorse for years. It's giving me some fits right now. I thought the driver was the culprit but after turning it on tonight I'm confused. The symptoms seem to keep shifting on me, so I'm missing something. Help?

Over the past month I've noticed that output has been dropping, even with fresh finals that have been neutralized. During tune-up procedure done as from the manual it's been giving less of a reading when adjusting drive. This weekend it gave -no- reading. Hence my thought of the driver. Now the oddities grow. The SG switch was returned to proper setting after neutralization, btw.

Tonight I decided to use the rig for some listening while my XYL plays video games. SSB signals are booming in. Then I switch to CW and get silence on all bands. It doesn't seem to be a switch issue. The only thing I can get is some pop when switching the VFO knob. No, I can't test against the crystal calibrator. The previous owner disabled it somehow and the rig has always been so stable I haven't needed to troubleshoot it.

BTW, I've also noticed what seems to be -increased- sensitivity on reception over the same time period. It doesn't seem to matter much what setting the antenna tuner is in anymore; I notice only about one S-unit drop when on the dummy load. Removing the antenna from the ATU does affect things, as does removing the ATU from the rig. A different antenna tuner gives the same result. During the past month the radio has been exposed to some cold weather; into the 30's for a few nights. Could this have damaged some of the 33 year old capacitors?

When it comes to the innards of my radio I'm not the most clued in, so I realize that I've probably missed something really basic. Especially with the ATU; I hear a bell ringing in the back of my mind on that.. That in mind, please be slow as to answering since my XYL is just about to say yes to a nice new ft897. I can fix this rig AFTER that.

73's and thanks in advance,
Doug KC4RSL

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date: 12/18/06

[Non-text portions of this message have been removed]

11630. Re: TS-520 transmitter knocked out by HD-1410

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 14:19:50 UTC
From: w5rkl
Topic: 11553 Message: 11630

When powering up the HD-1410 keyer, if the the keyers auto reset doesn't work and the keyer is sending constant dits or dahs, tap one of the paddles and it should stop the constant keying. If this doesn't work, it's possible the paddle adjustment lever has been moved too far to the left. Remove the top cover and move the thick black paddle adjustment lever to the right until the keyer stops. Be careful, the 120VAC fuse is mounted on the left side wall of the keyer.

If you suspect the PULL OUT switch is bad, you can disconnect one wire from this switch to test. The switch connections are located on the rear of the SPEED control. Simply unsolder one wire and if the switch is shorted internally, the keyer should no longer have a constant keyed output.

Replace the electrolytic caps. You can get most, if not all, of them at your local Radio Shack store. All but 2 are radial lead caps.

If the sidetone doesn't work but you can hear "clicking" in the speaker with one paddle pressed, the sidetone oscillator is not starting. Remove the bottom cover and adjust the TONE screw driver adjustment until the tone oscillator is heard with one paddle pressed.

Just a few tips for the HD-1410 keyer.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Meter pinning on HV is not normal. Replace all of the resistors on the HV unit board with the exact same ohms and wattage.
> Check R2 and R3, the cathode resistors on the Final Unit board. In circuit they should measure 5 ohms. They are two 10 ohm resistors in parallel. Or replace them with 10 ohm each 1 watt. Use only 1 watt. Increasing the wattage value of these resistors can cause serious damage if a tube shorts.
>
> The HD 1410 was functioning properly, but it's switching kept the transmitter keyed continuously. That is why it was sending dits while the transmitter keyed continuously.
>
> Vy 73, Walt N9WB
>
>

> ----- Original Message -----
> From: magicalmichaelmerlin
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, December 20, 2006 11:20 AM
> Subject: [TS-520_820_530_830] Re: TS-520 transmitter knocked out
by HD-1410
>
>
> Thanks, Walt.
> The SG switch is on. I don't see an antenna switch on the back of
> the TS-520, but I seem to be receiving ok. Ditto with an Xverter
> switch.
> The VFO switch is straight up in VFO.
> By the way, Ken Kemski had essentially the same idea - that maybe
> some of the switches were bumped - but nope.
> Visual inspection of the internal connections on the key jack
don't
> show a problem, but I haven't been able to insert a meter probe
into
> them.
> By the way, Ken also asked about the HV status. When I switch the
> meter to read HV, the meter pins to the right (which I assume is
> normal).
> Still no go - no current to the plate at all and no power out
when
> in TUN function with SEND (for LSB mode), as there had been
before
> the incident with the keyer.
> I haven't checked the HD-1410 yet, but what I find strange is
> that the HD-1410 speaker was giving dits and dahs at the exact
same
> time the TS-520 speaker was giving a continuous tone. And, by the
> way, the HD-1410 has no "hold" knob for keying up a rig. What it
> has is a pull out of the knob controlling either volume or speed
(I
> forget which) - and it definitely was not pulled out when I had
> plugged it into the key jack of the 520.
> I'm going to ask a friend in our club to open the high voltage
> box up and see if the cathode resistor is shot, which Ken thought
> might have happened.
> Again, thanks for all the thoughts and suggestions.
> 73 de KG9ML Mike
> -- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > First, check the switches on the back. Be sure that the SG
switch
> is on.
> > Be sure that the antenna switch is set to Normal.
> > If your rig has a Xverter switch, be sure it is off.
> >

> > Be sure that the VFO switch on the front is straight up in VFO.
> >
> > Some of these switches may have been bumped when you un-plugged
> the key.
> > When tuning up with no key plugged into the key jack, be sure
that
> the carrier control is fully up.
> >
> > If none of the above helps, there are internal contacts in the
key
> jack that close when there is no key. There may be a problem with
> one of those contacts that coincidentally occurred at the same
time
> you tried the keyer. All this keyer would have done is simulate a
> closed key. It should not have caused harm.
> >
> > Try whistling into the mike on SSB with the mike gain up and
see
> if you get any output indication.
> >
> > If none of the above helps, let us know and we will go further.
> >
> > Vy 73, Walt N9WB
> >
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date:
12/18/06
>
>
> [Non-text portions of this message have been removed]
>

11631. Re: TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 14:21:45 UTC
From: dug
Topic: 11624 Message: 11631

> I believe that you have an open ground on a coax jumper. Walt N9WB

On the receive issue? I thought so too, and did swap out for a
different one with the same result. I'll try a third and cross my
fingers.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I believe that you have an open ground on a coax jumper. Walt N9WB
> ----- Original Message -----
> From: dug
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, December 20, 2006 11:08 PM
> Subject: [TS-520_820_530_830] TS520 drive and reception issues
>
>
> I have a TS520 that has been a workhorse for years. It's giving
me
> some fits right now. I thought the driver was the culprit but
after
> turning it on tonight I'm confused. The symptoms seem to keep
> shifting on me, so I'm missing something. Help?
>
> Over the past month I've noticed that output has been dropping,
even
> with fresh finals that have been neutralized. During tune-up
> procedure done as from the manual it's been giving less of a
reading
> when adjusting drive. This weekend it gave -no- reading. Hence
my
> thought of the driver. Now the oddities grow. The SG switch was
> returned to proper setting after neutralization, btw.
>
> Tonight I decided to use the rig for some listening while my XYL
> plays video games. SSB signals are booming in. Then I switch to
CW
> and get silence on all bands. It doesn't seem to be a switch
> issue. The only thing I can get is some pop when switching the
VFO
> knob. No, I can't test against the crystal calibrator. The
> previous owner disabled it somehow and the rig has always been
so
> stable I haven't needed to troubleshoot it.
>
> BTW, I've also noticed what seems to be -increased- sensitivity

on
> reception over the same time period. It doesn't seem to matter
much
> what setting the antenna tuner is in anymore; I notice only
about
> one S-unit drop when on the dummy load. Removing the antenna
from
> the ATU does affect things, as does removing the ATU from the
rig.
> A different antenna tuner gives the same result. During the past
> month the radio has been exposed to some cold weather; into the
30's
> for a few nights. Could this have damaged some of the 33 year
old
> capacitors?
>
> When it comes to the innards of my radio I'm not the most clued
in,
> so I realize that I've probably missed something really basic.
> Especially with the ATU; I hear a bell ringing in the back of my
> mind on that.. That in mind, please be slow as to answering
since
> my XYL is just about to say yes to a nice new ft897. I can fix
this
> rig AFTER that.
>
> 73's and thanks in advance,
> Doug KC4RSL
>
>
>
>
>
>
> ---

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date:
12/18/06
>
>
> [Non-text portions of this message have been removed]
>

11632. Re: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 14:46:43 UTC
From: n9wb
Topic: 11419 Message: 11632

On tune or CW, transmit Carrier fully up,

On IF3 On the IF board, connector IF3 Pin 2 is TIF. Use the scope to measure the level there. Find D-44 and measure the RF level on both sides of it.
Again, check the level at TIF on the RF board.

While in the same condition as above, check the DC voltage at these points. Then check the DC voltage of these points in the receive mode.

Using the scope, measure the signal level at pin 5 of the finals on the bottom of the final board.

Now, Change to the SSB mode, mike gain fully down.
On the RF 2 connector on the RF board, check the voltage at RLK (pin9). on both TX and RX.

Also measure the voltage on the anode side of D-1. This is the end that connects to R-5 and C-14. Transmit USB, no mike gain.

Recheck the voltage on pin 2 of the 12BY7. Transmit USB, no mike gain Transmit CW or Tune, and then on receive. The voltage at this point is hard to read even on an original manual. I believe that it is supposed to be +10 on transmit and - 43 on receive. I don't that is what you got.

Are you using a VTVM here ? If not also check these voltages on SSB with your scope. Do you know how to check DC voltages with a scope? the input has to be on DC instead of AC. The meter you are using may be affecting this reading, or low bias on transmit may be the problem. I assume that you have tried another 12BY7 since locating the bad R-13 ?

Walt N9WB

----- Original Message -----
From: k8wvg
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 19, 2006 9:26 AM
Subject: [TS-520_820_530_830] Re: TS-820S Excessive Idle Current

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> In tune, Carrier fullup, Transmit.
>
> Using a 10 x probe if you have one and the scope input on AC not DC,
> look at the RF level at the grid of the 12 BY7 pin 2. Now look at >
> the plate of the 12BY7 pin 7.

OK Walt, here we go:

At 7.050MHz and using 1X probe (and series .001uf cap for the plate measurement only):

- 12by7 grid shows .12 vrms at 7MHz, CAR at 10, SEND
- 12by7 plate shows 1.8 vrms at 7Mhz, CAR at 10, SEND (drops to 20 mv rms with at CAR 0)

> If you have RF on the plate, see if it can be peaked with the drive control.

Can peak (to 1.8 vrms), drops lower at Drive control extremes.

>Then place the probe on the DRV point on the bottom of the final
>board and see what you have there.

DRV on final board measures 1.3 vrms at 7MHZ

> Back to the RF board, At the RF-1 connector compare RF signal levels at TIF (10) and VCO (4) points. They should be in the ballpark of the same level. I am thinking TIF might be way low, almost as low as it would normally be in receive.
>

- VCO measures .4 vrms, REC OR SEND
- TIF measures 2mv rms REC, 20mv rms on SEND

> Let me know.
>

I think that covers the requested measurements, let me know if I left something out.

73 Les K8WVG

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date: 12/18/06

[Non-text portions of this message have been removed]

11633. How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 13:53:16 UTC
From: Doug
Topic: 11633 Message: 11633

Hello,
I am new the the world of tubes. I understand the tune up procedure and have that down on my TS-820S. My question is if I tune up in one part of the band and change freq. in the same band, how far can I go before I should check everything and be sure it is adjusted correctly for the new freq? Had a solid state rig that went bad and with all the holiday costs, didn't have much extra cash to get another solid state rig. At first I thought it was going to be a pain, but I have to admit, it is kinda fun to have dials to mess with.

11634. Re: TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:15:48 UTC
From: dug
Topic: 11624 Message: 11634

OK, I swapped out for a third jumper between the ATU and the rig
with no change. I even no antenna. Maybe there's an issue with the
ATU? I'll straight line the antenna now that I've thought of then
blindingly obvious. No antenna was very little reception, but I
could pick up a few SSB signals on 20; probably normal.

Not that we expected it to, but just to be complete I'll say none of
these affected the lack of CW or the tune-up.

--- In TS-520_820_530_830@yahoogroups.com, "dug" <clockdug@...>
wrote:
>
>
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
>
> On the receive issue? I thought so too, and did swap out for a
> different one with the same result. I'll try a third and cross my
> fingers.
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
> > ----- Original Message -----
> > From: dug
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, December 20, 2006 11:08 PM
> > Subject: [TS-520_820_530_830] TS520 drive and reception issues
> >
> >
> > I have a TS520 that has been a workhorse for years. It's
giving
> me
> > some fits right now. I thought the driver was the culprit but
> after
> > turning it on tonight I'm confused. The symptoms seem to keep
> > shifting on me, so I'm missing something. Help?
> >
> > Over the past month I've noticed that output has been
dropping,
> even
> > with fresh finals that have been neutralized. During tune-up

> > procedure done as from the manual it's been giving less of a
> reading
> > when adjusting drive. This weekend it gave -no- reading. Hence
> my
> > thought of the driver. Now the oddities grow. The SG switch
was
> > returned to proper setting after neutralization, btw.
> >
> > Tonight I decided to use the rig for some listening while my
XYL
> > plays video games. SSB signals are booming in. Then I switch
to
> CW
> > and get silence on all bands. It doesn't seem to be a switch
> > issue. The only thing I can get is some pop when switching the
> VFO
> > knob. No, I can't test against the crystal calibrator. The
> > previous owner disabled it somehow and the rig has always been
> so
> > stable I haven't needed to troubleshoot it.
> >
> > BTW, I've also noticed what seems to be -increased-
sensitivity
> on
> > reception over the same time period. It doesn't seem to matter
> much
> > what setting the antenna tuner is in anymore; I notice only
> about
> > one S-unit drop when on the dummy load. Removing the antenna
> from
> > the ATU does affect things, as does removing the ATU from the
> rig.
> > A different antenna tuner gives the same result. During the
past
> > month the radio has been exposed to some cold weather; into
the
> 30's
> > for a few nights. Could this have damaged some of the 33 year
> old
> > capacitors?
> >
> > When it comes to the innards of my radio I'm not the most
clued
> in,
> > so I realize that I've probably missed something really basic.
> > Especially with the ATU; I hear a bell ringing in the back of
my
> > mind on that.. That in mind, please be slow as to answering
> since
> > my XYL is just about to say yes to a nice new ft897. I can fix

> this
> > rig AFTER that.
> >
> > 73's and thanks in advance,
> > Doug KC4RSL
> >
> >
> >
> >
> >
> >
> > --
--
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.24/592 - Release
Date:
> 12/18/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

11635. Re: [TS-520_820_530_830] Kenwood TS-830 mods.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:27:39 UTC
From: n9wb
Topic: 11515 Message: 11635

Courtney:

Things have hectic here lately, and I am not sure exactly how completely I replied to your questions.
One mod I would recommend it the following one. This is easily done and will make the transmit audio sound more open and less limited.

TS 830

This capacitor is labeled C-106. It is located on the IF board.
On the IF board there is a connector labeled 7. It is along side of CF 3. In that area you will find Q 19. C-106 is between Q 19 and the connector.

In the mid 1980s I believe 1986 Bob Heil published a construction project for an audio equalizer called an EQ-100. He also marketed it and a very similar upgraded one called the EQ-200. I have built a couple of these over the years. Bob's original version used 741 op amps. I used TLO 72 and 82 op amps instead as they have much better characteristics. for amateur use, I don't know it anybody could tell the difference, however.

This unit worked like a +/- Bass and Treble control on a radio except the frequencies were tailored for use with Amateur Radio audio frequencies. It would improve the sound of most mikes. I can no longer find the QST article but it was rather simple to build. I built one of mine on a breadboard. Perhaps Bob Heil still has some blank circuit boards around.

You also said that you had a IHY box. Do you still have any IHY boxes and if so which ones. We should be able to get one of those to sound good for you.

Perhaps this will be helpful information.

Vy 73, Walt N9WB

----- Original Message -----
From: court
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 16, 2006 7:00 PM
Subject: [TS-520_820_530_830] Kenwood TS-830 mods.

Hello all , i still cannot believe what a stir this has caused,
after I asked if there were any audio mods that we can do for the TS-830. i think after asking weather someone could help , I think we have drifded of the main subject.
N9WB wrote to me sayng he was making an eq possibly for the TS-830s, This would be fantastic and i will be His FIRST customer !! Getting back to transmit mods, im open to someone even doing the work for me as I do not want to take the chance to mess up a perfect radio that was extremely hard to find.

This is the site in question
http://home.comcast.net/~esprepair/ts830mods.htm

Now if you go into the site , right into it, he offeres a TX and RX
mod for FREE for the TS-520s , how nice of him .
site is as follows: http://home.comcast.net/~esprepair/ts520mods.htm

I can see now the 520s boys will be heading there directly, but can
some other tech look at this mod , and offer me some assistance
weather it would apply to the 830s?

Again , Im looking for someone to do a mod for ME as im not 100%
confident in doing it myself, The problem bieng im In AUSTRALIA and
this is where the problem starts and stops . A adjustable eq that
would pass the Front Mic socket would be perfect but as we all know
its the hard part.

Merry Xmas to all from down under
Dr Courtney McCarthy

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.19/587 - Release Date: 12/14/06

[Non-text portions of this message have been removed]

11636. Re: [TS-520_820_530_830] Re: TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:32:51 UTC
From: n9wb
Topic: 11624 Message: 11636

Try plugging the antenna directly into the radio. What kind of antenna are you using?
Walt N9WB
----- Original Message -----
From: dug
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 21, 2006 9:21 AM
Subject: [TS-520_820_530_830] Re: TS520 drive and reception issues

> I believe that you have an open ground on a coax jumper. Walt N9WB

On the receive issue? I thought so too, and did swap out for a
different one with the same result. I'll try a third and cross my
fingers.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I believe that you have an open ground on a coax jumper. Walt N9WB
> ----- Original Message -----
> From: dug
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Wednesday, December 20, 2006 11:08 PM
> Subject: [TS-520_820_530_830] TS520 drive and reception issues
>
>
> I have a TS520 that has been a workhorse for years. It's giving
me
> some fits right now. I thought the driver was the culprit but
after
> turning it on tonight I'm confused. The symptoms seem to keep
> shifting on me, so I'm missing something. Help?
>
> Over the past month I've noticed that output has been dropping,
even
> with fresh finals that have been neutralized. During tune-up
> procedure done as from the manual it's been giving less of a
reading
> when adjusting drive. This weekend it gave -no- reading. Hence
my
> thought of the driver. Now the oddities grow. The SG switch was
> returned to proper setting after neutralization, btw.
>
> Tonight I decided to use the rig for some listening while my XYL
> plays video games. SSB signals are booming in. Then I switch to
CW
> and get silence on all bands. It doesn't seem to be a switch
> issue. The only thing I can get is some pop when switching the

VFO
> knob. No, I can't test against the crystal calibrator. The
> previous owner disabled it somehow and the rig has always been
so
> stable I haven't needed to troubleshoot it.
>
> BTW, I've also noticed what seems to be -increased- sensitivity
on
> reception over the same time period. It doesn't seem to matter
much
> what setting the antenna tuner is in anymore; I notice only
about
> one S-unit drop when on the dummy load. Removing the antenna
from
> the ATU does affect things, as does removing the ATU from the
rig.
> A different antenna tuner gives the same result. During the past
> month the radio has been exposed to some cold weather; into the
30's
> for a few nights. Could this have damaged some of the 33 year
old
> capacitors?
>
> When it comes to the innards of my radio I'm not the most clued
in,
> so I realize that I've probably missed something really basic.
> Especially with the ATU; I hear a bell ringing in the back of my
> mind on that.. That in mind, please be slow as to answering
since
> my XYL is just about to say yes to a nice new ft897. I can fix
this
> rig AFTER that.
>
> 73's and thanks in advance,
> Doug KC4RSL
>
>
>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date:
12/18/06
>

>
> [Non-text portions of this message have been removed]
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.26/594 - Release Date: 12/20/06

[Non-text portions of this message have been removed]

11637. Re: TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:30:09 UTC
From: dug
Topic: 11624 Message: 11637

OK, I swapped out for a third jumper between the ATU and the rig
with no change. I even no antenna. Maybe there's an issue with the
ATU? I'll straight line the antenna now that I've thought of then
blindingly obvious. No antenna was very little reception, but I
could pick up a few SSB signals on 20; probably normal.

Not that we expected it to, but just to be complete I'll say none of
these affected the lack of CW or the tune-up.

--- In TS-520_820_530_830@yahoogroups.com, "dug" <clockdug@...>
wrote:
>
>
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
>
> On the receive issue? I thought so too, and did swap out for a
> different one with the same result. I'll try a third and cross my
> fingers.
>
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
> > ----- Original Message -----
> > From: dug
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, December 20, 2006 11:08 PM
> > Subject: [TS-520_820_530_830] TS520 drive and reception issues
> >
> >
> > I have a TS520 that has been a workhorse for years. It's
giving
> me
> > some fits right now. I thought the driver was the culprit but
> after
> > turning it on tonight I'm confused. The symptoms seem to keep
> > shifting on me, so I'm missing something. Help?
> >
> > Over the past month I've noticed that output has been
dropping,
> even
> > with fresh finals that have been neutralized. During tune-up

> > procedure done as from the manual it's been giving less of a
> reading
> > when adjusting drive. This weekend it gave -no- reading. Hence
> my
> > thought of the driver. Now the oddities grow. The SG switch
was
> > returned to proper setting after neutralization, btw.
> >
> > Tonight I decided to use the rig for some listening while my
XYL
> > plays video games. SSB signals are booming in. Then I switch
to
> CW
> > and get silence on all bands. It doesn't seem to be a switch
> > issue. The only thing I can get is some pop when switching the
> VFO
> > knob. No, I can't test against the crystal calibrator. The
> > previous owner disabled it somehow and the rig has always been
> so
> > stable I haven't needed to troubleshoot it.
> >
> > BTW, I've also noticed what seems to be -increased-
sensitivity
> on
> > reception over the same time period. It doesn't seem to matter
> much
> > what setting the antenna tuner is in anymore; I notice only
> about
> > one S-unit drop when on the dummy load. Removing the antenna
> from
> > the ATU does affect things, as does removing the ATU from the
> rig.
> > A different antenna tuner gives the same result. During the
past
> > month the radio has been exposed to some cold weather; into
the
> 30's
> > for a few nights. Could this have damaged some of the 33 year
> old
> > capacitors?
> >
> > When it comes to the innards of my radio I'm not the most
clued
> in,
> > so I realize that I've probably missed something really basic.
> > Especially with the ATU; I hear a bell ringing in the back of
my
> > mind on that.. That in mind, please be slow as to answering
> since
> > my XYL is just about to say yes to a nice new ft897. I can fix

> this
> > rig AFTER that.
> >
> > 73's and thanks in advance,
> > Doug KC4RSL
> >
> >
> >
> >
> >
> >
> > --
--
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.24/592 - Release
Date:
> 12/18/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

11638. Re: How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:43:43 UTC
From: w5rkl
Topic: 11633 Message: 11638

Retuning depends how far, one way or the other, you move from the resonante frequency. For example, if you move up 25Khz from the resonate frequency, I would touch up the tuning. However, if you move just a few Khz, I see no need to adjust the tuning.

If you are using a tuner, look at the tuner's SWR setting for an increase in SWR. For example, a slight increase from 1.1 to say, 1.3 to 1, does not warrant an adjustment in the tuner. Most modern solid state rigs with built-in tuners will follow the frequency change and automatically adjust accordingly. Most vintage as well as modern day transmitters/transceivers can tolerate an SWR from 2.1 to 1 and lower. Of course the SWR circuitry in modern transceivers will lower the output power as the SWR increases. Having said that, an increase from 1.1 to 1.3 to 1 SWR will not change the power output significantly. I'm sure the receiving end would not even notice it.

I am not saying an SWR of 2.1 to 1 is an acceptable level; not at all. I'm simply repeating what you will read in the manual. If the SWR is 2.1 to 1, that warrants touching up on the tuner as well as the transmitter. Modern all solid state rigs don't require touch up tuning; only a tuner if the tuner is seperate from the transmitter.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "Doug" <dsib432@...> wrote:
>
> Hello,
> I am new the the world of tubes. I understand the tune up procedure
> and have that down on my TS-820S. My question is if I tune up in
one
> part of the band and change freq. in the same band, how far can I go
> before I should check everything and be sure it is adjusted
correctly
> for the new freq? Had a solid state rig that went bad and with all
> the holiday costs, didn't have much extra cash to get another solid
> state rig. At first I thought it was going to be a pain, but I have
> to admit, it is kinda fun to have dials to mess with.
>

11639. N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:42:45 UTC
From: n9wb
Topic: 11639 Message: 11639

This week my elderly Father age 87 developed Pneumonia. He is in very serious condition. The nursing home notified his doctor. His doctor took 5 days to call in a prescription and did not hospitalize him or see him. When I found out about this, I had him hospitalized and am changing his doctor.

If I become scarce or do not answer all e-mails addressed to me, this is why.

He is doing a bit better now and things may be OK, but if things worsen and this will be the reason that I may be not as responsive for a short while.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11640. Re: [TS-520_820_530_830] How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:48:22 UTC
From: n9wb
Topic: 11633 Message: 11640

Retune any time you change your transmit frequency more than +/- 50 kHz from the frequency that you last tuned on.
Vy 73, Walt N9WB

----- Original Message -----
From: Doug
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 21, 2006 8:53 AM
Subject: [TS-520_820_530_830] How often to tune?

Hello,
I am new the the world of tubes. I understand the tune up procedure
and have that down on my TS-820S. My question is if I tune up in one
part of the band and change freq. in the same band, how far can I go
before I should check everything and be sure it is adjusted correctly
for the new freq? Had a solid state rig that went bad and with all
the holiday costs, didn't have much extra cash to get another solid
state rig. At first I thought it was going to be a pain, but I have
to admit, it is kinda fun to have dials to mess with.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.26/594 - Release Date: 12/20/06

[Non-text portions of this message have been removed]

11641. Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:47:01 UTC
From: w5rkl
Topic: 11639 Message: 11641

Walt, I hope your father improves. I know how that can be, I lost my father 3 years ago.

73's
Mike
W5RKL

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> This week my elderly Father age 87 developed Pneumonia. He is in very serious condition. The nursing home notified his doctor. His doctor took 5 days to call in a prescription and did not hospitalize him or see him. When I found out about this, I had him hospitalized and am changing his doctor.
>
> If I become scarce or do not answer all e-mails addressed to me, this is why.
>
> He is doing a bit better now and things may be OK, but if things worsen and this will be the reason that I may be not as responsive for a short while.
>
> Vy 73, Walt N9WB
>
>
>
> [Non-text portions of this message have been removed]
>

11642. Re: [TS-520_820_530_830] Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 16:19:01 UTC
From: mharelik
Topic: 11639 Message: 11642

Tend to your daddy, Walt. I pray for his returned good health.

73,
Max, K5OVW

>
>
>--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>>
>> This week my elderly Father age 87 developed Pneumonia. He is in
>very serious condition. The nursing home notified his doctor. His
>doctor took 5 days to call in a prescription and did not hospitalize
>him or see him. When I found out about this, I had him hospitalized
>and am changing his doctor.
>>
>> If I become scarce or do not answer all e-mails addressed to me,
>this is why.
>>
>> He is doing a bit better now and things may be OK, but if things
>worsen and this will be the reason that I may be not as responsive
>for a short while.
>>
>> Vy 73, Walt N9WB
>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>
>
>
>

Sent via the WebMail system at comanchetx.com

11643. Re: How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 16:39:28 UTC
From: baumbrent
Topic: 11633 Message: 11643

I found that my TS-520SE is fairly "broad minded" on 20 meters. It tends to have the same tune settings across the entire band. However, given that each of these old radios has a distinct personality, yours may need tuning every 50 KHz or so.

To shorten my tune up time I obtained a sprial bound book of blank note/recipe cards. I set up one page per band with the range of frequencies I'll be using and then noted the load, plate and driver settings for each frequency. I also noted the antenna tuner settings for each frequency. Now when I change freqs or bands I just dial in the noted setting and I'm ready to go. For quality control purposes I will double check these settings every six months or so, just to guard against something drifting out of spec as the radio ages. For example after replacing the 10 meter crystals I noted that the plate setting on 20 meters drifted up a couple of ticks.

Now if I can just remember that calling CQ into a dummy load is not a radio malfunction.....

vy 73, K7MEI, Brent

--- In TS-520_820_530_830@yahoogroups.com, "Doug" <dsib432@...> wrote:
>
> Hello,
> I am new the the world of tubes. I understand the tune up procedure
> and have that down on my TS-820S. My question is if I tune up in one
> part of the band and change freq. in the same band, how far can I go
> before I should check everything and be sure it is adjusted correctly
> for the new freq? Had a solid state rig that went bad and with all
> the holiday costs, didn't have much extra cash to get another solid
> state rig. At first I thought it was going to be a pain, but I have
> to admit, it is kinda fun to have dials to mess with.
>

11644. Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 16:48:10 UTC
From: ve3tmt
Topic: 11639 Message: 11644

My prayers are with you and your family Walt, and hopefully your father will have a speedy recovery.

Max
VE3tMT

11645. Re: TS-820S Excessive Idle Current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 15:35:01 UTC
From: k8wvg
Topic: 11419 Message: 11645

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> On tune or CW, transmit Carrier fully up,
>

Walt, thanks for the reply. Things have improved here but I'll run through the earlier measurements as well as your latest suggestions just to make sure I'm on the right track.

I did realize that TIF at the rf board was too low so I checked D44 on the if board and found it OK. I pulled the if board, looked it over closely and checked continuity of the cabling between rf and if boards.

After re-seating the if board and all the connectors I found that I now have drive and can tune into a dummy load (40 and 20m tested so far) with close to 100w out. Looks like an intermittent or dirty connector at the if board might be the cause of the no drive/output problem. I'll dig some more and let you know what I find.

The 12by7 is good and the r13/r14 divider is still OK. I'm using a Metex DMM (10M ohm input impedance) for the DC measurements (except for the final plates where the panel meter was used).

I can flip the scope to measure DC but it has a 100V input limit. The vrms measurements I reported last time were done with the scope on AC.

Again, thanks for the help. I may need more.

73 Les K8WVG

11646. Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 17:24:37 UTC
From: baumbrent
Topic: 11639 Message: 11646

Walt,
I, as others, wish your father a speedy recovery and that you all may have a joyous holiday season.
Brent Baum

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> This week my elderly Father age 87 developed Pneumonia. He is in very serious condition. The nursing home notified his doctor. His doctor took 5 days to call in a prescription and did not hospitalize him or see him. When I found out about this, I had him hospitalized and am changing his doctor.
>
> If I become scarce or do not answer all e-mails addressed to me, this is why.
>
> He is doing a bit better now and things may be OK, but if things worsen and this will be the reason that I may be not as responsive for a short while.
>
> Vy 73, Walt N9WB
>
>
>
> [Non-text portions of this message have been removed]
>

11647. Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 17:23:27 UTC
From: k8wvg
Topic: 11639 Message: 11647

Walt,

Sorry to hear about your Dad. Your Dad and family will be in my thoughts.

73 Les K8WVG

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
This week my elderly Father age 87 developed Pneumonia. He is in very
serious condition. The nursing home notified his doctor. His doctor
took 5 days to call in a prescription and did not hospitalize him or
see him. When I found out about this, I had him hospitalized and am
changing his doctor.

11648. Re: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 18:27:54 UTC
From: Another Old Codger
Topic: 11439 Message: 11648

In the '50s I was a Regional Service Manager for one of GB's largest valve/tube manufacturers. There were an increasing amount of dual standard radio and television receivers. These were usually designed with a separate tuner for each band, AM/FM, Band 1 and Band 3. These were quite often sold in areas where FM and/or Band 3 were not available. When these services were finally installed it was discovered that the valves/tubes in the tuners had failed, little or no emission. The cause was cathode poisoning, due to the heaters being on without any HT supply, switching the HT between tuners was the usual way of changing standards. A modification was issued by most set manufacturers, on our advice, to install a resistor of 250K to 500K across the HT switches. This allowed a low current to pass through the valve/tube, thus keeping the cathode 'turned over'. In later valve/tube manuals issued by the manufacturers, this was one of the protocols. On that basis, I would not recommend that the heater switch is left on for long periods, unless you are transmitting.

Re:- To switch off or not, there are at least three points of view,

a. When Independent Television opened up in 1955 all our equipment was valved, pulse generators occupied a full height 19" rack, and there were at least two. These were switched on in the morning and switched off at Close Down. Valve failures were fairly frequent and caused quite a lot of inconvenience. Research by the industry showed that leaving the equipment on permanently reduced valve failure to a very low order. The trouble was that the insurance companies would not agree to this unless the areas were supervised at all time. Finally, they agreed and the equipment remained switched on. All faults dropped to a very low order. As most of the circuitry was pulse with most valves being either on or off, mainly twin triodes in Binary Counters, valve failures very almost none existent.

b. A variation of the opening paragraph, in other words don't leave any valved equipment on without at least a minimum 'trickle' of HT. I don't think that the domestic insurers in GB would take kindly to you leaving Ham gear on un-attended, in the event of a fire they would almost be sure to refuse a claim. I would suspect the equipment manufacturers would not be willing to claim that their equipment was designed to be left on permanently. Even the best 'gear' is built to a price, and certainly would not meet professional or military standards.

c. The environment, Great Britain is facing an energy crisis, almost 50% of our energy is 'bought in', the costs are rising all the time. The availability is under threat. Despite sitting on around four hundred years supply of coal we have closed most of our mines, and buy

our coal overseas. So, we are under constant pressure to reduce our consumption. It is frequently pointed out that all the television sets left on stand by use the output of a large power station. The computers which are not switched off at the wall socket use a considerable amount of energy. The same goes for many similar appliances, we are surrounded by energy wasting devices. Most Western countries import at least 40% of their energy requirements, mainly from unstable sources. So if your rig, computer, microwave, television/s, and all those little black boxes are left on, you are contributing to the problem.

It makes you think, don't it!!

73 Ron G8URU

11649. Re: [TS-520_820_530_830] TS-820 Magicom

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 19:02:05 UTC
From: Edwin
Topic: 11618 Message: 11649

Walt
Thanks for the info on the Magicom, I hope it's not this circuit that's gone bad. I will be going down this afternoon after the addition of some test points. I'll let you know how it goes.
Thanks
Edwin
N1DFB
May your father seek his health.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 21, 2006 9:11 AM
Subject: Re: [TS-520_820_530_830] TS-820 Magicom

Is this the manual for the Magicom he is wanting $16.00 for ? I think I can come up with one for $ 15.95.

Just joking, if I can find it I will make a copy and send it to you for free. It is a one or two page manual.
This is a device that makes the RF processor in the TS-820 a RF limiter. It is not all that bad. It was made by W6TOG and uses an FM limiter chip as the RF clipper. The number is rubbed off of the limiter chip and I have not been able to identify it.

Gordon was kind enough to send me one that I reverse engineered except for identifying the chip. I believe that the chip is the same at a TA7060P except that the TA7060P is an inline package and the chip in the Magicom is a round metal one.

As I remember. C-133 was removed to disable the gain reduction circuit in the original compressor and C-139 was removed. I believe that R-105 and R-110 may have also been removed. I believe that the input and output of the Magicom went to either side of where C-139 was. I believe there was a connection to the side of where C-133 was that goes to D-39 and 40. This makes the comp meter work. There is also either a 9 or 14 volt connection and the board is grounded where it solders to the back of the IF board.

To remove it, remove the Magicom board and all of the wires. Replace C-133 with a 22 pf ceramic disc capacitor. Replace C-139 with a .01 uf ceramic disk capacitor. Replace R- 105 and 110 with a 10 K 1/4 watt resistor each.

It works pretty good. Should it have a problem, it will only affect operation with the processor on.

This information is from memory and I am 57 years olde, so I cannot guarantee the accuracy of it.

BTW, if anybody knows the number of this chip i would find it interesting. I bet it was a common FM IF limiter in the day.

Vy 73, Walt N9WB

----- Original Message -----
From: Edwin
To: 820
Sent: Wednesday, December 20, 2006 9:06 PM
Subject: [TS-520_820_530_830] TS-820 Magicom

MAGICOM
RF PROCESSOR FOR THE TS-820

Does any one know anything about the Magicom "RF Processor for the TS-820". I've found one in my 820, never knew it was there, and now it's in the middle of a trouble shooting project that I have going on.
WB2JKJ,
http://www.hamradiomanuals.com/view_manual.php?m=144&PHPSESSID=b0f93f68d406401ed9e7a7d6a346aab5
has what I believe to be the manual but wants $16.00 for it. I would like to take a look see for a little less than that. Any help would be appreciated.
Edwin
N1DFB

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.24/592 - Release Date: 12/18/06

[Non-text portions of this message have been removed]

11650. Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 19:04:24 UTC
From: Ellen R
Topic: 11639 Message: 11650

Don't worry Walt, your dad is much more important this group. I'll keep my fingers crossed for your dad's health. Pneumonia is a nasty thing. When I was diagnosed with asthma 3 1/2 years ago, it was discovered I also had pneumonia. It's not something to be taken lightly, as I know first hand. I almost ended up in the hospital from it.

73 & take care,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> This week my elderly Father age 87 developed Pneumonia. He is in very serious condition. The nursing home notified his doctor. His doctor took 5 days to call in a prescription and did not hospitalize him or see him. When I found out about this, I had him hospitalized and am changing his doctor.
>
> If I become scarce or do not answer all e-mails addressed to me, this is why.
>
> He is doing a bit better now and things may be OK, but if things worsen and this will be the reason that I may be not as responsive for a short while.
>
> Vy 73, Walt N9WB
>
>
>
> [Non-text portions of this message have been removed]
>

11651. Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 19:11:25 UTC
From: Bob
Topic: 11639 Message: 11651

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Our prayers are out for you and your family Walt.
BOB N3OO
>

11652. Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 19:45:52 UTC
From: Bill Barron
Topic: 11652 Message: 11652

Perhaps these have been addressed before, but unable to find
threads in search:

1) FIX light: When first starting up the 520SE and setting the
function in VFO; both the VFO and FIX light illuminate. This
Doesn't 'seem' to effect the rig -- and fix light will eventually
go off after an hour -- but what's the problem? The lamp does not
illuminate in the 'VFO.R' position.

2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts with
weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
Is this common? Problem? How to fix?

3) Idiot: Ok. I have a low pass filter. Do I hook this up before
the tuner, after the tuner, or after the amp or not at all?
My amp is an old
LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
is 200 watts; which is ok given attic dipoles.

4) S meter: The S meter maximum deflection on receive seems to
be s-7 -- even though signals received may be 20 over (per my
newer Yaesu rigs). Audio receive quality very good-- just the
meter seems to be way, way off. Can I fix it? How?

5) External VFO. I have a 520 and a 520SE external VFOs. Will either
work? Also have interconnect cable-- but it doesn't seem to work.
Is there a special setting on the rig I need to set? If the cable is
bad-- is it a staight pin-to-pin connection? If so, I'll re-wire it.

Thanks for any help and suggestions. Really like these old hybrid
rigs. Am playing with a matched set of 599 Twins also. Awaiting the
R&O publication to take upgrade tests -- so it's time to get the
ham shack fully-operational.

73,
Bill W1WAB

11653. RE: [TS-520_820_530_830] Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 20:14:02 UTC
From: BRENT BAUM
Topic: 11652 Message: 11653

Bill,
I can only address item 5, my 520SE also seems to have problems 2 & 4.

The VFO-520 and VFO-520S (there isn't an SE version) are virtually identical. The S version has a dark back plate behind the dial to match the S/SE transceiver's dark back plate. I believe that the S version also has an additional band on the band switch.

The cable is a straight 1-to-1 connection, no crossovers. Use your ohmmeter to check continuity of each pin end-to-end. Check how tightly the connectors fit into the sockets. My 520SE has a loose spot inside the VFO socket and if I bump the radio just right I drop the connection. (So don't bump the radio.)

As far as the 10m question, I need to tweak the oscillator, etc. coils to bring it on line. The procedure is in the owner's manual in Section 6.

Regarding the S meter, I hope someone has good advice. The owner's manual says to use a radio frequency signal generator to inject a 50 micro-volt signal on 14.175 and then adjust a trimmer pot for an S-9 reading. However, I don't have a sig gen.

Have fun,
K7MEI, Brent

>From: "Bill Barron" <wabarron@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Five questions
>Date: Thu, 21 Dec 2006 19:45:52 -0000
>
>Perhaps these have been addressed before, but unable to find
>threads in search:
>
>1) FIX light: When first starting up the 520SE and setting the
> function in VFO; both the VFO and FIX light illuminate. This
> Doesn't 'seem' to effect the rig -- and fix light will eventually
> go off after an hour -- but what's the problem? The lamp does not
> illuminate in the 'VFO.R' position.
>
>2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts with
> weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
> Is this common? Problem? How to fix?
>
>3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> the tuner, after the tuner, or after the amp or not at all?

> My amp is an old
> LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> is 200 watts; which is ok given attic dipoles.
>
>4) S meter: The S meter maximum deflection on receive seems to
> be s-7 -- even though signals received may be 20 over (per my
> newer Yaesu rigs). Audio receive quality very good-- just the
> meter seems to be way, way off. Can I fix it? How?
>
>5) External VFO. I have a 520 and a 520SE external VFOs. Will either
>work? Also have interconnect cable-- but it doesn't seem to work.
>Is there a special setting on the rig I need to set? If the cable is
>bad-- is it a staight pin-to-pin connection? If so, I'll re-wire it.
>
>
>Thanks for any help and suggestions. Really like these old hybrid
>rigs. Am playing with a matched set of 599 Twins also. Awaiting the
>R&O publication to take upgrade tests -- so it's time to get the
>ham shack fully-operational.
>
>73,
>Bill W1WAB
>
>
>
>

11654. RE: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 22:15:59 UTC
From: Geoff Hegarty
Topic: 11439 Message: 11654

Thanks Barry. Something I've never heard of - but then I haven't had much to
do with transmitters that run 10KV.

Very best wishes for Christmas
Geoff VK2HQA

>From: "boat.anchor" <boat.anchor@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
>Date: Thu, 21 Dec 2006 04:38:13 -0000
>
>Goeff
>This was just a flash fom the past. I took my training way back when
>tubes were king and there has been a lot of water under the bridge
>since then. In fact it's been 20 years since I looked at any
>component level electronics.
>It was not plate stripping I was thinking of but should have read
>cathode stripping. It used to be common belief that applying power
>to the tubes without preheating the filaments would strip the
>cathodes of their emitting elements, for lack of a better
>description. A quick Google on cathode stripping reveals this only
>happens when the HV exceeds approx 10 KV. Should not be a problem
>for us.
>best regards
>Barry in Vancouver
>VA7GEM
>
>--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
><geoff_hegarty@...> wrote:
> >
> > Hi Barry
> >
> > Could you tell us a little more about "stripping the plate"
>please. I
> > haven't heard about this, and it sounds awful.
> >
> > Regards
> > Geoff VK2HQA
> >
> >
> > >From: "boat.anchor" <boat.anchor@...>
> > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > >To: TS-520_820_530_830@yahoogroups.com
> > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?

> > >Date: Thu, 21 Dec 2006 00:47:40 -0000
> > >
> > >Bob
> > >I guess this disproves the old theory of stripping the plate by
> > >leaving the power on when the heaters are off.
> > >best regards
> > >Barry in Vancouver
> > >VA7GEM
> > >
> > >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> > >wrote:
> > > >
> > > >
> > > >I never turn it off unless I do maint on it or there is a
> > > > bad electrical storm .I ALWAYS leave it on , even when I'm
>away from
> > > > home for days.....guess I feel lucky, or have faith.
> > > > At nite....I turn the heater switch off.
> > > > BOB N3OO
> > > >
> > >
> > >
> >
> > ____
> > Join the millions of Australians using Live Search. Try
>live.com.au
> > http://ninemsn.com.au/share/redir/adTrack.asp?
>mode=click&clientID=740&referral=million&URL=http://live.com.au
> >
>
>

____
Advertisement: It's simple! Sell your car for just $20 at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT

11655. No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 21:39:01 UTC
From: cpitre_01
Topic: 11655 Message: 11655

Brought the 520 over to a friend's house to test the output on a Bird
Wattmeter into a dummyload. Full output!!
After bringing it home I do not get the 60ma of plate idle current.

Checked all connections and switch positions. Anyone have any ideas?

Chris
VE3CTP

11656. Re: No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-21 23:36:09 UTC
From: baumbrent
Topic: 11655 Message: 11656

Here is what Clif told me when I had a brain freeze regarding plate idle current:

The bias is set in the SSB Mode while the radio is in TX and mike gain all the way down, counterclockwise.

The meter switch does nothing in RX mode it only indicates TX readings and only when it TX.

The reading you are getting in Rx is the AGC, not ALC, big difference.

Set the bias on 20m to 60ma IN SSB TX MODE using the bias pot on the side. It should be the same on all bands.

Clif

Hope it helps.
K7MEI, Brent

--- In TS-520_820_530_830@yahoogroups.com, "cpitre_01" <cpitre_01@...> wrote:
>
> Brought the 520 over to a friend's house to test the output on a Bird
> Wattmeter into a dummyload. Full output!!
> After bringing it home I do not get the 60ma of plate idle current.
>
> Checked all connections and switch positions. Anyone have any ideas?
>
> Chris
> VE3CTP
>

11657. Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 00:19:25 UTC
From: David S Lund
Topic: 11652 Message: 11657

>
> 3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> the tuner, after the tuner, or after the amp or not at all?
> My amp is an old
> LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> is 200 watts; which is ok given attic dipoles.

I believe that the lowpass filter should be installed on the
transmitter output or the amplifier output but not on the tuner
output. Make sure that the filter is rated to handle the amp output.

David KB5DRJ

11658. Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 00:17:09 UTC
From: boat.anchor
Topic: 11439 Message: 11658

Geoff
Just hope I got it right this time.
regards
Barry in Vancouver
VA7GEM ex VK2GEM

--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
<geoff_hegarty@...> wrote:
>
> Thanks Barry. Something I've never heard of - but then I haven't had
much to
> do with transmitters that run 10KV.
>
> Very best wishes for Christmas
> Geoff VK2HQA
>

11659. Re: [TS-520_820_530_830] Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 00:54:01 UTC
From: Peter A Markavage
Topic: 11652 Message: 11659

Low Pass Filter would go before the antenna tuner but why use it unless
you know you're having a TVI problem.
Rig puts out approx 100 watts; your amp 200 watts; what's the point; no
one will know except your electric company.
Replace weak 6146's and probably weak 12BY7. Report back if 10 meters
still not functioning.

With the latest two (Nov and Dec) FCC actions, both R&O's have been
issued.

Pete, wa2cwa

On Thu, 21 Dec 2006 19:45:52 -0000 "Bill Barron"
<wabarron@...> writes:
> Perhaps these have been addressed before, but unable to find
> threads in search:
>
> 1) FIX light: When first starting up the 520SE and setting the
> function in VFO; both the VFO and FIX light illuminate. This
> Doesn't 'seem' to effect the rig -- and fix light will
> eventually
> go off after an hour -- but what's the problem? The lamp does
> not
> illuminate in the 'VFO.R' position.
>
> 2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts
> with
> weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
> Is this common? Problem? How to fix?
>
> 3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> the tuner, after the tuner, or after the amp or not at all?
> My amp is an old
> LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> is 200 watts; which is ok given attic dipoles.
>
> 4) S meter: The S meter maximum deflection on receive seems to
> be s-7 -- even though signals received may be 20 over (per my
> newer Yaesu rigs). Audio receive quality very good-- just the
> meter seems to be way, way off. Can I fix it? How?
>
> 5) External VFO. I have a 520 and a 520SE external VFOs. Will either
>
> work? Also have interconnect cable-- but it doesn't seem to work.
> Is there a special setting on the rig I need to set? If the cable
> is

> bad-- is it a staight pin-to-pin connection? If so, I'll re-wire
> it.
>
>
> Thanks for any help and suggestions. Really like these old hybrid
> rigs. Am playing with a matched set of 599 Twins also. Awaiting the
>
> R&O publication to take upgrade tests -- so it's time to get the
> ham shack fully-operational.
>
> 73,
> Bill W1WAB

11660. Re: No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 01:29:45 UTC
From: cpitre_01
Topic: 11655 Message: 11660

Thanks for your suggestion, but it did not work.
Any other ideas?

Chris
VE3CTP

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
<brentbaum5323@...> wrote:
>
> Here is what Clif told me when I had a brain freeze regarding plate
> idle current:
>
> The bias is set in the SSB Mode while the radio is in TX and mike
gain
> all the way down, counterclockwise.
>
> The meter switch does nothing in RX mode it only indicates TX
readings
> and only when it TX.
>
> The reading you are getting in Rx is the AGC, not ALC, big
difference.
>
> Set the bias on 20m to 60ma IN SSB TX MODE using the bias pot on the
> side. It should be the same on all bands.
>
> Clif
>
> Hope it helps.
> K7MEI, Brent
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "cpitre_01" <cpitre_01@>
> wrote:
> >
> > Brought the 520 over to a friend's house to test the output on a
> Bird
> > Wattmeter into a dummyload. Full output!!
> > After bringing it home I do not get the 60ma of plate idle
> current.
> >
> > Checked all connections and switch positions. Anyone have any
ideas?
> >
> > Chris

> > VE3CTP
> >
>

11661. Re: [TS-520_820_530_830] No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 01:36:07 UTC
From: N6WK
Topic: 11655 Message: 11661

Check the SG switch in the back. Sounds like it got bumped off !

gordon

cpitre_01 wrote:

> Brought the 520 over to a friend's house to test the output on a Bird
> Wattmeter into a dummyload. Full output!!
> After bringing it home I do not get the 60ma of plate idle current.
>
> Checked all connections and switch positions. Anyone have any ideas?
>
> Chris
> VE3CTP
>
>

[Non-text portions of this message have been removed]

11662. Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 03:14:44 UTC
From: w5rkl
Topic: 11652 Message: 11662

If you use the amplifier, place the filter between the amplifier and the tuner. I agree with Pete, if you do not have TVI problems then you don't need to install the filter. Use it as a door stop.

Turn the FUNCTION switch to 25Khz position and tune the main tuning dial to a 25Khz mark on the dial. Peaking the DRIVE control for maximum S meter reading. Does the S meter read higher than S7? More than likely the 520SE needs an alignment.

With the VFO-520 attached to the 520SE, the VFO-520 FUNCTION switch determines which VFO is used. Leave the 520SE FUNCTION switch in VFO postion.

The following is how the remote VFO works with the 520SE (with the VFO-520 plugged into the rear 9 pin socket).

The remote VFO-520 FUNCTION switch in REC position:
Remote VFO-520 controls the receiver frequency and the 520SE VFO control the transmitter frequency.

The remote VFO-520 FUNCTION switch in REC/XMIT position:
The remote VFO-520 controls both transmit and receive frequencies for the 520SE. Main 520SE internal VFO is disabled.

The remote VFO-520 FUNCTION switch in XMIT position:
The remote VFO-520 controls transmit frequency. The main 520SE VFO controls receive frequency.

The remote VFO-520 in OFF position:
The main 520SE internal VFO controls both transmit and receive, remote VFO-520 is disabled.

The VFO-520 RIT control:
With the remote VFO-520 RIT push button pressed, the remote VFO-520 RIT control varies the receive plus/minus the receive frequency.

If the remote VFO-520 does not appear to be working but the LEDs lite up, remove the cover and clean the switch contacts, relay socket and the relay contacts. I had a similiar problem with my remote VFO-820, it would not work split. Cleaning the switch, relay socket and relay contacts fixed the problem.

The cable between the remote VFO-520 and the 520SE is a 9 pin straight through, pin for pin, cable. As Pete said, check each pin for continuity using an ohm meter. If one wire is broken on either end, the remote VFO-520 will not work; especially if it's the power lead.

Why the FIXED light is lite for the first hour of operation, that's more than likely a dirty contact on the fixed channel oscillator board or a capacitor that needs replacing. Try cleaning the plugs on the fixed channel board with DeoXit.

The only time the FIXED light should light up is with the FUNCTION switch in either VFO-R, FIX-R or FIX position.

With the function switch in VFO-R:
The 520SE's internal VFO controls receive and, if installed, one of the selected fixed crystals controls transmit.

With the FUNCTION switch in FIX-R:
The 520SE's internal VFO controls the transmit and, if installed, the selected fixed crystal(s) controls receive.

With the FUNCTION switch in FIX:
If installed, one of the selected crystals controls transmit and receive.

The crystal selector knob is located on the LOAD control. There are 4 positions. Crystals must be installed before any of the fixed FUNCTION position will work. The crystals are options, not included with the TS-520SE from the factory. The FIX channel crystal board is located directly behind the 520SE internal VFO.

Power output should be approximately 100 watts on 160 through 15 and about 80 watts on 10. The output power depends on properly alignment, good 12BY7 driver and good 6146 finals.

I seem to recall the 520 series suffered from a relay problem on receive. It's been 25 years since I've owned a 520 so possibly someone else can provide more information.

73's
Mike
W5RKL

With only an S7 meter reading on receive, did you adjust the pre
--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage <pmarkavage@...> wrote:
>
> Low Pass Filter would go before the antenna tuner but why use it unless
> you know you're having a TVI problem.
> Rig puts out approx 100 watts; your amp 200 watts; what's the point; no
> one will know except your electric company.
> Replace weak 6146's and probably weak 12BY7. Report back if 10 meters
> still not functioning.
>
> With the latest two (Nov and Dec) FCC actions, both R&O's have been

> issued.
>
> Pete, wa2cwa
>
> On Thu, 21 Dec 2006 19:45:52 -0000 "Bill Barron"
> <wabarron@...> writes:
> > Perhaps these have been addressed before, but unable to find
> > threads in search:
> >
> > 1) FIX light: When first starting up the 520SE and setting the
> > function in VFO; both the VFO and FIX light illuminate. This
> > Doesn't 'seem' to effect the rig -- and fix light will
> > eventually
> > go off after an hour -- but what's the problem? The lamp does
> > not
> > illuminate in the 'VFO.R' position.
> >
> > 2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts
> > with
> > weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
> > Is this common? Problem? How to fix?
> >
> > 3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> > the tuner, after the tuner, or after the amp or not at all?
> > My amp is an old
> > LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> > is 200 watts; which is ok given attic dipoles.
> >
> > 4) S meter: The S meter maximum deflection on receive seems to
> > be s-7 -- even though signals received may be 20 over (per my
> > newer Yaesu rigs). Audio receive quality very good-- just the
> > meter seems to be way, way off. Can I fix it? How?
> >
> > 5) External VFO. I have a 520 and a 520SE external VFOs. Will
either
> >
> > work? Also have interconnect cable-- but it doesn't seem to work.
> > Is there a special setting on the rig I need to set? If the cable
> > is
> > bad-- is it a staight pin-to-pin connection? If so, I'll re-wire
> > it.
> >
> >
> > Thanks for any help and suggestions. Really like these old hybrid
> > rigs. Am playing with a matched set of 599 Twins also. Awaiting
the
> >
> > R&O publication to take upgrade tests -- so it's time to get the
> > ham shack fully-operational.
> >

> > 73,
> > Bill W1WAB
>

11663. Re: No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 02:28:35 UTC
From: cpitre_01
Topic: 11655 Message: 11663

After reading more in the manual, I found that, sure enough it was
off. Now that I can put the station back together I may just have to
take a picture and post it to the group.

Chris

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Check the SG switch in the back. Sounds like it got bumped off !
>
> gordon
>
>
>
> cpitre_01 wrote:
>
> > Brought the 520 over to a friend's house to test the output on a
Bird
> > Wattmeter into a dummyload. Full output!!
> > After bringing it home I do not get the 60ma of plate idle
current.
> >
> > Checked all connections and switch positions. Anyone have any
ideas?
> >
> > Chris
> > VE3CTP
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

11664. Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 02:12:51 UTC
From: poolman6464
Topic: 11299 Message: 11664

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well here's my posting to the group. I finally decided to post a
wanted ad. I'm looking for a Kenwood HC-10 Digital Desk Clock
> Wanted
>
> contact me on QSO group or individually off the side. TNX-KA3DPW
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail beta.
>
> [Non-text portions of this message have been removed]
>
I have a HC-10 I don't even use. Do you have anything you might want
to trade for it?
Mike

11665. N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 03:08:17 UTC
From: zengmeiste@aol.com
Topic: 11639 Message: 11665

Walt, will include you & your dad in my prayers.

Vy 73, Terry KC9KEL

[Non-text portions of this message have been removed]

11666. Well, it all works!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 05:48:18 UTC
From: the_tick_lives
Topic: 11666 Message: 11666

Finally got my home brew VFO cable built and retrieved my D104 mic from someone I loaned it to. A quick re-wire to make it work and viola. The VFO works, the DG 5 works and the AT-200 works with a long wire attached.

It's fun having to twist knobs to make things work instead of just a couple of buttons (other HF radios are a TS-50/AT-50 for mobile and a TS570D/G).

I guess to really make it right a MC-50 would be the appropriate microphone, but I'm really not a desk mike fan. What would be an appropriate hand mike for a 520SE be?

Also, I don't really hear much of a difference when the wide switch is on. I'm going to do a bit more reading in the manual to see if it is something I should worry about.

Allen
N0GOM

11667. Re: Well, it all works!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 06:27:28 UTC
From: David S Lund
Topic: 11666 Message: 11667

> I guess to really make it right a MC-50 would be the appropriate
> microphone, but I'm really not a desk mike fan. What would be an
> appropriate hand mike for a 520SE be?
>
Not sure how this mic rates as far as audio, but I think that the
520SE came with the MC-30S hand mic. I got one from my 520SE and it
works fine.

David KB5DRJ

11668. Scientists Predict Big Solar Cycle

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 06:39:50 UTC
From: Kevin & Natalia
Topic: 11668 Message: 11668

Guys,

Something that might be of interest. Not actually related to the Kenwood group, but looking good for a great solar cycle.
Received from my repeater forum.

If not suitable, please delete.

Kevin.

Merry Christmas and Happy New Year to all from the South Pacific.

Get Skype and call me for free.

----- Original Message -----
From: Don
To: Repeater-Builder@yahoogroups.com
Sent: Friday, December 22, 2006 7:05 PM
Subject: [Repeater-Builder] Scientists Predict Big Solar Cycle

Scientists Predict Big Solar Cycle

NASA Science News for December 21, 2006
Evidence is mounting: the next solar cycle is going to be a big one.

FULL STORY at

http://science.nasa.gov/headlines/y2006/21dec_cycle24.htm?list924420

Happy Holidays

Don KA9QJG

[Non-text portions of this message have been removed]

11669. Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 06:52:16 UTC
From: Brian Hall
Topic: 11299 Message: 11669

--- In TS-520_820_530_830@yahoogroups.com, "poolman6464" <n7hhc@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
wrote:
> >
> > Well here's my posting to the group. I finally decided to post a
> wanted ad. I'm looking for a Kenwood HC-10 Digital Desk Clock
> > Wanted
> >
> > contact me on QSO group or individually off the side. TNX-KA3DPW
> >
> >
> > ---------------------------------
> > Everyone is raving about the all-new Yahoo! Mail beta.
> >
> > [Non-text portions of this message have been removed]
> >
> I have a HC-10 I don't even use. Do you have anything you might
want
> to trade for it?
> Mike
>
Here's a link to an HC-10 that posted on eBay today:

http://cgi.ebay.com/Kenwood-HC-10-Digital-Clock-Like-New-
Condition_W0QQitemZ320064371803QQihZ011QQcategoryZ40067QQrdZ1QQcmdZVie
wItem

73
Brian AC7NA

11670. Re: [TS-520_820_530_830] No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 13:08:41 UTC
From: n9wb
Topic: 11655 Message: 11670

Be sure that the SG switch is ON. B esure that the Heater switch is ON Then we will go from there.

Vy 73, Walt N9WB

----- Original Message -----
From: cpitre_01
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 21, 2006 4:39 PM
Subject: [TS-520_820_530_830] No plate idle current

Brought the 520 over to a friend's house to test the output on a Bird
Wattmeter into a dummyload. Full output!!
After bringing it home I do not get the 60ma of plate idle current.

Checked all connections and switch positions. Anyone have any ideas?

Chris
VE3CTP

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.26/594 - Release Date: 12/20/06

[Non-text portions of this message have been removed]

11671. Re: [TS-520_820_530_830] Re: Well, it all works!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 13:27:44 UTC
From: n9wb
Topic: 11666 Message: 11671

If you want a hand mike, the Heil HC-5 works very well with the 520 in a hand mike. It actually works better in a hand mike than it does in a desk mike.

I like the D-104. Go to n9wb.org for an article on the D-104 and a modification that gives it a smoother sound. No I am not selling anything, this tells you how to do this. It also includes other D-104 information.

Vy 73, Walt N9WB

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 22, 2006 1:27 AM
Subject: [TS-520_820_530_830] Re: Well, it all works!!

> I guess to really make it right a MC-50 would be the appropriate
> microphone, but I'm really not a desk mike fan. What would be an
> appropriate hand mike for a 520SE be?
>
Not sure how this mic rates as far as audio, but I think that the
520SE came with the MC-30S hand mic. I got one from my 520SE and it
works fine.

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.26/597 - Release Date: 12/21/06

[Non-text portions of this message have been removed]

11672. TEST

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-22 22:23:20 UTC
From: wb4mnk
Topic: 11672 Message: 11672

Have not been receiving any messages so just testing to see if corrected.

Thanks,
Art
WB4MNK

11673. Re: [TS-520_820_530_830] Scientists Predict Big Solar Cycle

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 00:08:11 UTC
From: John Harp
Topic: 11668 Message: 11673

Glasd to see your reading about that Kevin. It's been going around and pretty much all of us are observing it. You'll learn something over the next 11 years and obtain some good QSO's too.

I've heard reports from one say it'll be this and another say it won't be much. Of course the two of you will have a good radio to enjoy some good contacts. I had some suprises over the last couple of cycles with mine.

Kevin & Natalia <sparcnz@...> wrote:
Guys,

Something that might be of interest. Not actually related to the Kenwood group, but looking good for a great solar cycle.
Received from my repeater forum.

If not suitable, please delete.

Kevin.

Merry Christmas and Happy New Year to all from the South Pacific.

Get Skype and call me for free.

----- Original Message -----
From: Don
To: Repeater-Builder@yahoogroups.com
Sent: Friday, December 22, 2006 7:05 PM
Subject: [Repeater-Builder] Scientists Predict Big Solar Cycle

Scientists Predict Big Solar Cycle

NASA Science News for December 21, 2006
Evidence is mounting: the next solar cycle is going to be a big one.

FULL STORY at

http://science.nasa.gov/headlines/y2006/21dec_cycle24.htm?list924420

Happy Holidays

Don KA9QJG

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11674. Re: [TS-520_820_530_830] Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 00:02:42 UTC
From: John Harp
Topic: 11299 Message: 11674

Thank You Brian, But I just got my HC-10 clock. I've been using the instructions to teach me how to set the clock and access the time zones. It's nice to have and compliments the station well.

What I was offering was if someone needs instructions I'd get them the info. Next, I must build a shelf to place it on. I'm going to set it up on the solar panel and cells system to avoid power failure.

I thank you for the offer, but I must recover from the holidays financially before I move on to the furthering of the station.

Brian Hall <bnhall_2000@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "poolman6464" <n7hhc@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@>
wrote:
> >
> > Well here's my posting to the group. I finally decided to post a
> wanted ad. I'm looking for a Kenwood HC-10 Digital Desk Clock
> > Wanted
> >
> > contact me on QSO group or individually off the side. TNX-KA3DPW
> >
> >
> > ---------------------------------
> > Everyone is raving about the all-new Yahoo! Mail beta.
> >
> > [Non-text portions of this message have been removed]
> >
> I have a HC-10 I don't even use. Do you have anything you might
want
> to trade for it?
> Mike
>
Here's a link to an HC-10 that posted on eBay today:

http://cgi.ebay.com/Kenwood-HC-10-Digital-Clock-Like-New-
Condition_W0QQitemZ320064371803QQihZ011QQcategoryZ40067QQrdZ1QQcmdZVie
wItem

73
Brian AC7NA

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11675. Re: [TS-520_820_530_830] TEST

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 00:16:39 UTC
From: amfone@sbcglobal.net
Topic: 11672 Message: 11675

It working
----- Original Message -----
From: wb4mnk
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 22, 2006 5:23 PM
Subject: [TS-520_820_530_830] TEST

Have not been receiving any messages so just testing to see if
corrected.

Thanks,
Art
WB4MNK

[Non-text portions of this message have been removed]

11676. Re: [TS-520_820_530_830] Well, it all works!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 00:18:15 UTC
From: John Harp
Topic: 11666 Message: 11676

Allen, an MC-50 was the mic accessory that sold with the 520, but also of that vintage era was not uncommon to see other mics like D-104 used. Hams adapted and was acccepted adaption. It may be cheap or maybe it was just what was available. A shure 444 mic was another. All were good options and worked well.

Originally the MC-35S was the handmike of high impedance that Kenwood sold as the accessory for the these radios. If you watch ebay you'll see them selling occasionally. I've watched two in the last couple of months.

the_tick_lives <the_tick_lives@...> wrote:
Finally got my home brew VFO cable built and retrieved my D104 mic from someone I loaned it to. A quick re-wire to make it work and viola. The VFO works, the DG 5 works and the AT-200 works with a long wire attached.

It's fun having to twist knobs to make things work instead of just a couple of buttons (other HF radios are a TS-50/AT-50 for mobile and a TS570D/G).

I guess to really make it right a MC-50 would be the appropriate microphone, but I'm really not a desk mike fan. What would be an appropriate hand mike for a 520SE be?

Also, I don't really hear much of a difference when the wide switch is on. I'm going to do a bit more reading in the manual to see if it is something I should worry about.

Allen
N0GOM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11677. Re: [TS-520_820_530_830] Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 01:21:29 UTC
From: John Harp
Topic: 11652 Message: 11677

Peter has a good point. 100 watts or 200 watts will not sound any different to the other station in most cases.

Peter A Markavage <pmarkavage@...> wrote: Low Pass Filter would go before the antenna tuner but why use it unless
you know you're having a TVI problem.
Rig puts out approx 100 watts; your amp 200 watts; what's the point; no one will know except your electric company.
Replace weak 6146's and probably weak 12BY7. Report back if 10 meters still not functioning.

With the latest two (Nov and Dec) FCC actions, both R&O's have been issued.

Pete, wa2cwa

On Thu, 21 Dec 2006 19:45:52 -0000 "Bill Barron" <wabarron@...> writes:
> Perhaps these have been addressed before, but unable to find
> threads in search:
>
> 1) FIX light: When first starting up the 520SE and setting the
> function in VFO; both the VFO and FIX light illuminate. This
> Doesn't 'seem' to effect the rig -- and fix light will
> eventually
> go off after an hour -- but what's the problem? The lamp does
> not
> illuminate in the 'VFO.R' position.
>
> 2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts
> with
> weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
> Is this common? Problem? How to fix?
>
> 3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> the tuner, after the tuner, or after the amp or not at all?
> My amp is an old
> LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> is 200 watts; which is ok given attic dipoles.
>
> 4) S meter: The S meter maximum deflection on receive seems to
> be s-7 -- even though signals received may be 20 over (per my
> newer Yaesu rigs). Audio receive quality very good-- just the
> meter seems to be way, way off. Can I fix it? How?
>
> 5) External VFO. I have a 520 and a 520SE external VFOs. Will either

>
> work? Also have interconnect cable-- but it doesn't seem to work.
> Is there a special setting on the rig I need to set? If the cable
> is
> bad-- is it a staight pin-to-pin connection? If so, I'll re-wire
> it.
>
>
> Thanks for any help and suggestions. Really like these old hybrid
> rigs. Am playing with a matched set of 599 Twins also. Awaiting the
>
> R&O publication to take upgrade tests -- so it's time to get the
> ham shack fully-operational.
>
> 73,
> Bill W1WAB

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11678. Re: [TS-520_820_530_830] Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 01:18:45 UTC
From: John Harp
Topic: 11652 Message: 11678

Question #1 I would get to worried over. If it works don't fix it. I have one light out on my VFO right now. I need to replace one LED and that hopefully should be the resolution to that problem, but it still works otherwise.

Question#2 Your tube finals may be going. But while your in there check visually for other things and clean the bandswitches. Your radio may be suffeering from some stressed parts. Remember the grand ole lady has been around and some TLC may keep her going. Proper tuning is important. Check the high voltage too. 800 or 900 volts. Make sure of your 60 milliamps and if your finding it a little difficult to drive then that's a sign of the driver going bad too. You may see a variance in output on different bands like maybe less than 100 on 10 and more than 100 something on 80, but outputs like 50 are questionable. Check the tubes for the type too. 6146B's are what you want. You could try the neutralization process and see if it helps also.

Question#3 are you having a problem with RFI or TVI. Many times a good ground is the culprit. The shorter your run to ground the less likely the problem. For example: my ground is 3 inch copper strap (low impedance) and it's length to the 8 foot ground rod is 6 foot. That's total length. By keeping your ground length below 1/4 or less it really keeps the interference down. Mine is good for me with my Amps to 10 meters. It's .039 wave at 7 mhz. The only thing mine bothers is two touch lamps in the house.
My filters are one set between the 830 and the amplifier and the other between the amplifier and the antenna tuner. I have both the common mode and harmonic types. It does hurt the incomming signal a little and makes a small loss out, but that's offset by the half inch hardline I use to the antenna. I planned out about .27dB on 40 meters with 115 feet for length between station and antenna.

Sweep tubes I've been told can have harmonic radiation problems. I've never had one, but I was told use filters and ground well.

As for the S-meter, that is only a relative indication. You'll know what a signal is by listening to the conversation. Your reports will tell the other operator an idea of what they sound like and vice versa. You'd be suprised what moving your station from one place to another can do. That's why I moved mine to an out building, free of flouresent lights and dimmers and other noises common to a house. Keeps the noise down with the family too, as well as RFI and TVI. Planning makes a big difference.

Some will say you need a filter and others will say you don't. I'd say if there's a problem check your ground first. Then apply your filters as needed. Keep your station well grounded.

There's in a nutshell what I learned over 30 years that may help you. I once knew someone who had a sweep tube amplifier and he had a problem in 5 houses with diploes outside. You may find verticals more prone to the problem because of following the path of man made noise. A dipole up higher and away from the building can solve that somewhat so long as the shield isn't radiating on the transmission lines. Some have said baluns or sleeve chokes help. A few turns of coax 6 inches around they say can keep radiation down. Others say it's

a waste of time. I say use as little power as needed and good SWR's help alot along with good grounds. All that will go a long ways.

By the way I use vertical mostly but also have end fed horizontal. Planning is going to mean alot to you now. You have a good rig, give it a good antenna and feed line and by all means make sure you have a good ground.

Bill Barron <wabarron@...> wrote:
Perhaps these have been addressed before, but unable to find
threads in search:

1) FIX light: When first starting up the 520SE and setting the
function in VFO; both the VFO and FIX light illuminate. This
Doesn't 'seem' to effect the rig -- and fix light will eventually
go off after an hour -- but what's the problem? The lamp does not
illuminate in the 'VFO.R' position.

2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts with
weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
Is this common? Problem? How to fix?

3) Idiot: Ok. I have a low pass filter. Do I hook this up before
the tuner, after the tuner, or after the amp or not at all?
My amp is an old
LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
is 200 watts; which is ok given attic dipoles.

4) S meter: The S meter maximum deflection on receive seems to
be s-7 -- even though signals received may be 20 over (per my
newer Yaesu rigs). Audio receive quality very good-- just the
meter seems to be way, way off. Can I fix it? How?

5) External VFO. I have a 520 and a 520SE external VFOs. Will either
work? Also have interconnect cable-- but it doesn't seem to work.
Is there a special setting on the rig I need to set? If the cable is
bad-- is it a staight pin-to-pin connection? If so, I'll re-wire it.

Thanks for any help and suggestions. Really like these old hybrid
rigs. Am playing with a matched set of 599 Twins also. Awaiting the
R&O publication to take upgrade tests -- so it's time to get the
ham shack fully-operational.

73,
Bill W1WAB

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11679. Re: [TS-520_820_530_830] Re: No plate idle current

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 01:27:41 UTC
From: John Harp
Topic: 11655 Message: 11679

Yes Chris, I found that out the hard way too. Whats worse is the literature mentions nothing of this pronounced effect. I went for years and replaced tubes over and over again and it only happened to me recently. I can imagine how you felt. I was frustrated. I had to go calm down for a while and come back to look at the radio.

Boy did I feel dumb afterwards. But I learned something and it was easily fixed. This happened before I found the group. So don't fell bad. It happens moreso than you think.

cpitre_01 <cpitre_01@...> wrote:
After reading more in the manual, I found that, sure enough it was
off. Now that I can put the station back together I may just have to
take a picture and post it to the group.

Chris

--- In TS-520_820_530_830@yahoogroups.com, N6WK <n6wk@...> wrote:
>
> Check the SG switch in the back. Sounds like it got bumped off !
>
> gordon
>
>
>
> cpitre_01 wrote:
>
> > Brought the 520 over to a friend's house to test the output on a
Bird
> > Wattmeter into a dummyload. Full output!!
> > After bringing it home I do not get the 60ma of plate idle
current.
> >
> > Checked all connections and switch positions. Anyone have any
ideas?
> >
> > Chris
> > VE3CTP
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11680. Re: [TS-520_820_530_830] Re: WTB Kenwood HC-10 Digital Desk Clock

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 01:33:02 UTC
From: John Harp
Topic: 11299 Message: 11680

I watch a number of places. I'll write back if I see one.

Meanwhile, go to ebay and set up in your favorate searches, a search for HC-10. When one shows up there, it'll tell you in an email. These usually have several days to get a bid in.

I just got mine that way. I went up against two others. The one backed off the other went on a bid war with me and I paid a high price for mine despite it's in mint condition. Hope you do better.

poolman6464 <n7hhc@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well here's my posting to the group. I finally decided to post a
wanted ad. I'm looking for a Kenwood HC-10 Digital Desk Clock
> Wanted
>
> contact me on QSO group or individually off the side. TNX-KA3DPW
>
>
> ---------------------------------
> Everyone is raving about the all-new Yahoo! Mail beta.
>
> [Non-text portions of this message have been removed]
>
I have a HC-10 I don't even use. Do you have anything you might want
to trade for it?
Mike

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11681. RE: [TS-520_820_530_830] Re: Turn off or not turn off?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 01:40:29 UTC
From: John Harp
Topic: 11439 Message: 11681

I turn mine off and even tho it's got lightning protection on it I disconnect form the mains anyway. This helps isolate it to the out boulding away from the house. I also disconnect the vertical from the feedline as well as set the antenna switch in an unused position or the dummy load. If I'm not around there's no sense in the radios running. It just runs up my electric bill and leaves the risk of lightning wreaking havoc not to mention a fire risk. The frequency drift isn't worth those issues.

Geoff Hegarty <geoff_hegarty@...> wrote: Thanks Barry. Something I've never heard of - but then I haven't had much to
do with transmitters that run 10KV.

Very best wishes for Christmas
Geoff VK2HQA

>From: "boat.anchor" <boat.anchor@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
>Date: Thu, 21 Dec 2006 04:38:13 -0000
>
>Goeff
>This was just a flash fom the past. I took my training way back when
>tubes were king and there has been a lot of water under the bridge
>since then. In fact it's been 20 years since I looked at any
>component level electronics.
>It was not plate stripping I was thinking of but should have read
>cathode stripping. It used to be common belief that applying power
>to the tubes without preheating the filaments would strip the
>cathodes of their emitting elements, for lack of a better
>description. A quick Google on cathode stripping reveals this only
>happens when the HV exceeds approx 10 KV. Should not be a problem
>for us.
>best regards
>Barry in Vancouver
>VA7GEM
>
>--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
><geoff_hegarty@...> wrote:
> >
> > Hi Barry
> >
> > Could you tell us a little more about "stripping the plate"
>please. I
> > haven't heard about this, and it sounds awful.
> >
> > Regards

> > Geoff VK2HQA
> >
> >
> > >From: "boat.anchor" <boat.anchor@...>
> > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > >To: TS-520_820_530_830@yahoogroups.com
> > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > >Date: Thu, 21 Dec 2006 00:47:40 -0000
> > >
> > >Bob
> > >I guess this disproves the old theory of stripping the plate by
> > >leaving the power on when the heaters are off.
> > >best regards
> > >Barry in Vancouver
> > >VA7GEM
> > >
> > >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> > >wrote:
> > > >
> > > >
> > > >I never turn it off unless I do maint on it or there is a
> > > > bad electrical storm .I ALWAYS leave it on , even when I'm
>away from
> > > > home for days.....guess I feel lucky, or have faith.
> > > > At nite....I turn the heater switch off.
> > > > BOB N3OO
> > > >
> > >
> > >
> > >
> >
> > _____
> > Join the millions of Australians using Live Search. Try
>live.com.au
> > http://ninemsn.com.au/share/redir/adTrack.asp?
>mode=click&clientID=740&referral=million&URL=http://live.com.au
> >
>
>

_____
Advertisement: It's simple! Sell your car for just $20 at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11683. Re: [TS-520_820_530_830] How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 02:23:04 UTC
From: John Harp
Topic: 11633 Message: 11683

Yes Doug it's not as big a deal as everryone makes it to be. Tuning on different frequencies can be done quickly and easily once you know how. Just tune to a dummyload first and that sets you for the antenna pretty much. Takes seconds. Remember, if you can tune the reception for loudest audio in, thats the one you've already got somewhat tuned. Next tune up at low power and you're most of the way there with out stressing the parts inside. you might even fell close enough. You can tweak it a little after that, but you may not gain much more. Once tuned, I can switch to my linear and reduce the ALC to reduce the drive. 65 in gives me full legal limit and to drive it hard is bad for both the transiever and the amplifier not to mention the unwanted spurious energy above and below the frequency I was trying to use.

Now some of what may affect your bandwidth and settings may be coming from the antenna or whatever the tuned circuit is in front of your rig. I use a rather broadband antenna that allows me to sit in portions of band without tuning much, but the load line is 1/2 inch hardline feeding a good vertical. The SWR at the band edges is about 3 to 1. A dipole could be a different story.

A small change in frequency may not be a big deal and reduced power may spread that a little further. But don't stress your components if you can help it. Some parts could be a little difficult for you to replace not to mention the time your down and the expense.

If I see little change in the output between two frequencies close together I don't sweat it to much as long as I'm not driving to hard or on air to long. But I don't push the rig to much to often either.

Now tubes may be a little more forgiving than solid state, I used to push 6146's to 3 to1 on dipoles years back, but since got out of that. I have a versa V tuner that untes pretty much anything I could load.

But take care of that ole radio right and it'll take you a long time. If in doubt, until you know by feel tune it anyway-properly. It only takes a short time and unless your in a contest or some fast paced environment what would it matter.

Doug <dsib432@...> wrote:
Hello,
I am new the the world of tubes. I understand the tune up procedure
and have that down on my TS-820S. My question is if I tune up in one
part of the band and change freq. in the same band, how far can I go
before I should check everything and be sure it is adjusted correctly
for the new freq? Had a solid state rig that went bad and with all
the holiday costs, didn't have much extra cash to get another solid
state rig. At first I thought it was going to be a pain, but I have
to admit, it is kinda fun to have dials to mess with.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around

http://mail.yahoo.com

[Non-text portions of this message have been removed]

11684. Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 02:49:22 UTC
From: the_tick_lives
Topic: 11652 Message: 11684

Bill -

Join the HamFTP Yahoo group and get access to the FTP server. It has
all the 520SE manuals scanned an online for download. It also has
all the manuals for the acessories.

Allen
N0GOM

--- In TS-520_820_530_830@yahoogroups.com, "Bill Barron"
<wabarron@...> wrote:
>
> Perhaps these have been addressed before, but unable to find
> threads in search:
>
> 1) FIX light: When first starting up the 520SE and setting the
> function in VFO; both the VFO and FIX light illuminate. This
> Doesn't 'seem' to effect the rig -- and fix light will eventually
> go off after an hour -- but what's the problem? The lamp does not
> illuminate in the 'VFO.R' position.
>
> 2) 10 meters: In dummy load tune-up, rig works fine (ok; 50watts
with
> weak 6146's) for 80, 20 meters-- but seems dead at 10 meters.
> Is this common? Problem? How to fix?
>
> 3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> the tuner, after the tuner, or after the amp or not at all?
> My amp is an old
> LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> is 200 watts; which is ok given attic dipoles.
>
> 4) S meter: The S meter maximum deflection on receive seems to
> be s-7 -- even though signals received may be 20 over (per my
> newer Yaesu rigs). Audio receive quality very good-- just the
> meter seems to be way, way off. Can I fix it? How?
>
> 5) External VFO. I have a 520 and a 520SE external VFOs. Will
either
> work? Also have interconnect cable-- but it doesn't seem to work.
> Is there a special setting on the rig I need to set? If the cable is
> bad-- is it a staight pin-to-pin connection? If so, I'll re-wire it.
>
>
> Thanks for any help and suggestions. Really like these old hybrid
> rigs. Am playing with a matched set of 599 Twins also. Awaiting the

> R&O publication to take upgrade tests -- so it's time to get the
> ham shack fully-operational.
>
> 73,
> Bill W1WAB
>

11685. Kenwood.com has added vintage manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 02:58:16 UTC
From: james27613
Topic: 11685 Message: 11685

hi,

Been a while since I visited Kenwood.com site,
they have expanded their ftp site to include
many vintage manuals for amateur radio.
Very easy to d/l the manual(s) you need with their search tool.

http://www.kenwoodusa.com/

11686. Re: [TS-520_820_530_830] Microphone wiring

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 05:29:50 UTC
From: Bill Scurlock
Topic: 11443 Message: 11686

Ken.

Would you please send me the same MD-1 connection information? Thanks. 73,

Bill, K5GCW
k5gcw@...
----- Original Message -----
From: Ken Winterling
To: TS-520_820_530_830@yahoogroups.com
Cc: cdr_software@...
Sent: Wednesday, December 13, 2006 8:38 PM
Subject: Re: [TS-520_820_530_830] Microphone wiring

Court,

I attached a schematic for wiring a MD-1 to a Kenwood 4 pin rig like the TS-830S. I also attached a schematic of the MD-1. Since the reflector will strip the attachments I also Cc'd you so you should get my message direct with the attachments. You didn't specify which MD-1 you have (MD-1B8 or MD-1C8) but the wiring is the same.

Let me know if you have any problem receiving the attachments or if you have additional questions.

Ken, WA2LBI

On 12/13/06, court <cdr_software@...> wrote:
>
> Can someone please tell me what colour wiring goes where , i want to
> wire a Yaesu MD-1 to a kenwood TS-830 ,obviously it needs to be for a
> 4 pin plug, your urgent help out there would be appreciated
> Cheers
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11687. Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 14:54:45 UTC
From: Bill Barron
Topic: 11652 Message: 11687

Thanks for info on external VFO and wiring.
Will check it out.

73,
Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, "BRENT BAUM"
<brentbaum5323@...> wrote:
>
> Bill,
> I can only address item 5, my 520SE also seems to have problems 2
& 4.
>
> The VFO-520 and VFO-520S (there isn't an SE version) are virtually
> identical. The S version has a dark back plate behind the dial to
match the
> S/SE transceiver's dark back plate. I believe that the S version
also has an
> additional band on the band switch.

11688. Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 14:55:54 UTC
From: Bill Barron
Topic: 11652 Message: 11688

Thanks-- will do.

Bill W1WAB
--- In TS-520_820_530_830@yahoogroups.com, "David S Lund"
<kb5drj@...> wrote:
>
>
> >
> > 3) Idiot: Ok. I have a low pass filter. Do I hook this up before
> > the tuner, after the tuner, or after the amp or not at all?
> > My amp is an old
> > LA-1000 sweep tube with (yes) very weak tubes-- max out maybe
> > is 200 watts; which is ok given attic dipoles.
>
> I believe that the lowpass filter should be installed on the
> transmitter output or the amplifier output but not on the tuner
> output. Make sure that the filter is rated to handle the amp
output.
>
> David KB5DRJ
>

11689. Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 15:24:57 UTC
From: Bill Barron
Topic: 11652 Message: 11689

Dear John~~

Thanks for all your very useful comments.

I had moved the rig from inside the house to a new 'shack'
in the garage (see photo on QRZ), which has improved reception and
is closer to my antennas. I have baluns and coil 'chokes' on all
the antennas.

They are the real 'issue' --I know -- as I must use
attic dipoles; outdoor antennas being forbidden. Attic height
--or actually lack thereof -- also precludes verticals. No
metal gutters either. Flagpole antennas mixed results locally.

Hence the lack of any real power being applied to the rig/signal.

I have two dipoles (20 & 80-- the latter wrapped round and round the
beams)and two big Cushcraft 70/2/6 mtr beams in locked due west
position. These antennas do a pretty good job -- I got 91 6 mtr
contacts last season -- some cross-county--using very low RF power.

Yes, RFI is an issue as all the house and cheap TV cable wiring also
runs thru the attic. The grounding also a 'problem'. I have a
good copper bus and good copper ribbon grounding all 14 of my rigs--
but to date I've had to hook this to nearby house ground at main
breaker box. I plan to run an old shorted coax outside (10 feet)
to ground stake soon; but with sandy dry Florida soil, this may not
be a better solution. For this reason, most local hams use
excellent club station for DX.

Thanks again for your suggestions. We'll be working on it.

73,
Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Question #1 I would get to worried over. If it works don't fix it.
I have one light out on my VFO right now. I need to replace one LED
and that hopefully should be the resolution to that problem, but it
still works otherwise.

11690. Re: Turn off or not turn off? Lightning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 15:55:28 UTC
From: Clif
Topic: 11439 Message: 11690

As far as turn off or not your choice. If you are disconnecting
everything to protect from lighting don't forget the ground wire. I
can't count the number of radios I have repaired for lightning damage
that the ONLY thing hooked up was the ground. No antenna, no computer,
no AC mains, nothing but a ground wire.

Don't ask for an explanation, there is none where lightning is concerned.

Clif

-- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I turn mine off and even tho it's got lightning protection on it I
disconnect form the mains anyway. This helps isolate it to the out
boulding away from the house. I also disconnect the vertical from the
feedline as well as set the antenna switch in an unused position or
the dummy load. If I'm not around there's no sense in the radios
running. It just runs up my electric bill and leaves the risk of
lightning wreaking havoc not to mention a fire risk. The frequency
drift isn't worth those issues.
>
> Geoff Hegarty <geoff_hegarty@...> wrote: Thanks Barry.
Something I've never heard of - but then I haven't had much to
> do with transmitters that run 10KV.
>
> Very best wishes for Christmas
> Geoff VK2HQA
>
> >From: "boat.anchor" <boat.anchor@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> >Date: Thu, 21 Dec 2006 04:38:13 -0000
> >
> >Goeff
> >This was just a flash fom the past. I took my training way back when
> >tubes were king and there has been a lot of water under the bridge
> >since then. In fact it's been 20 years since I looked at any
> >component level electronics.
> >It was not plate stripping I was thinking of but should have read
> >cathode stripping. It used to be common belief that applying power
> >to the tubes without preheating the filaments would strip the
> >cathodes of their emitting elements, for lack of a better
> >description. A quick Google on cathode stripping reveals this only
> >happens when the HV exceeds approx 10 KV. Should not be a problem
> >for us.

> >best regards
> >Barry in Vancouver
> >VA7GEM
> >
> >--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
> ><geoff_hegarty@> wrote:
> > >
> > > Hi Barry
> > >
> > > Could you tell us a little more about "stripping the plate"
> >please. I
> > > haven't heard about this, and it sounds awful.
> > >
> > > Regards
> > > Geoff VK2HQA
> > >
> > >
> > > >From: "boat.anchor" <boat.anchor@>
> > > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > > >To: TS-520_820_530_830@yahoogroups.com
> > > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > > >Date: Thu, 21 Dec 2006 00:47:40 -0000
> > > >
> > > >Bob
> > > >I guess this disproves the old theory of stripping the plate by
> > > >leaving the power on when the heaters are off.
> > > >best regards
> > > >Barry in Vancouver
> > > >VA7GEM
> > > >
> > > >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> > > >wrote:
> > > > >
> > > > >
> > > > >I never turn it off unless I do maint on it or there is a
> > > > > bad electrical storm .I ALWAYS leave it on , even when I'm
> >away from
> > > > > home for days.....guess I feel lucky, or have faith.
> > > > > At nite....I turn the heater switch off.
> > > > > BOB N3OO
> > > > >
> > > >
> > > >
> > > >
> > >
> > > _____
> > > Join the millions of Australians using Live Search. Try
> >live.com.au
> > > http://ninemsn.com.au/share/redir/adTrack.asp?
> >mode=click&clientID=740&referral=million&URL=http://live.com.au
> > >

> >
> >
>
> --
> Advertisement: It's simple! Sell your car for just $20 at
carsales.com.au
>
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT
>
>
>
>
>
> --
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11692. My audio uploaded to KenwoodMics group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 07:35:20 UTC
From: court
Topic: 11692 Message: 11692

Anyone intrested in hearing My TS-830 in all its glory, please log into Kenwood mics group under files and this you can hear my kenwood TS-830 in all its glory. Boy you cannot beat tubes for audio thats for sure !! Give us Tubes any day.

please would be intrested in any comments you have , tried to post my audio sample on this group but there is no room. If you would like it i would be happy to send to whom ever wants it via their email..

Merry Xmas everyone and happy new year !!

Courtney McCarthy

11693. Merry Christmas and all the best for everyone in 2007

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-23 21:51:40 UTC
From: Kay Groß
Topic: 11693 Message: 11693

Hello to all group members all over the world,

I do wish everyone a very good Merry Christmas and a succesfull 2007.
This year i was not very active in the group but in the background
I was able to make some progress in the self claimed aimes.
Hopefully I am more active in 2007.

all the best to all hams and best 73

Kay DL5OAQ

www.pbase.com/dl5oaq

[Non-text portions of this message have been removed]

11694. TS-510

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 01:09:59 UTC
From: boat.anchor
Topic: 8758 Message: 11694

If anyone is interested there is a TS-510, PS-510, and VFO for sale in Northern British Columbia. He is asking $125 plus shipping. Let me know if you want a contact email.
regards
Barry
VA7GEM

11695. Re: [TS-520_820_530_830] Kenwood.com has added vintage manuals

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 02:12:04 UTC
From: John Harp
Topic: 11685 Message: 11695

Thank You James. I'm glad you found that. I finally have a copy of the TS-830 Instruction Manual in my e-books. That's been a hard one to find.

Hope all finds you Well my friend and Happy Holidays to all. John KA3DPW

james27613 <james27613@...> wrote:
hi,

Been a while since I visited Kenwood.com site,
they have expanded their ftp site to include
many vintage manuals for amateur radio.
Very easy to d/l the manual(s) you need with their search tool.

http://www.kenwoodusa.com/

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11698. Re: [TS-520_820_530_830] Re: Five questions

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 03:31:45 UTC
From: John Harp
Topic: 11652 Message: 11698

Alright Bill, But you may find a little trouble above 21 mhz with the ground length that long on HF. Can you put High pass filtering at the Cables for TV to help? Between the Low Pass from the transciever cutting the frequency to below about 30 mhz (and ground it good) and the High Pass (ground it good also) you may have enough isolation.

Also look into the common mode filters. Some times a break in resonance may do the trick. I have the RF Inquiry commonmode filters and they made a difference for me. I used to run an end fed quarterwave 160 that would bite you good on a node by mic or key. Wouldn't want to try a pchooked up then. Feedback galore in the shack especially with the amplifier on. that's why I went to a good ground. I found my station was actually floating above ground and that solved alot of it for the end fed. When I went to the flagpole I bought from Force 12 it did good to 20 or 30 meters. But 40 was not so good 80 and 160 I raised a wire to the top for resonance out to a tree. It worked but not so good.

Now I built a 33 foot vertical that lifts out of the ground and has a hinge action at the base. It fits the CC&R rules and it's painted flat black. It vanishes to the backdrop of trees behind it. You could make a flagpole and make it removable. Use radials under it. even if you hide them just under the ground. Bury the coaxial feedline to it.

I got touchy neighbors and that's how I got around it. Put it up after dark and remove it before light again.

It's a bit noisy because it's a vertical but the way I constructed it makes it really get out the signal and even at full power nobody knows in the neighborhood. Even within our house the only thing that is affected is the touch lamps. But that's even barefoot. It's the voltage regulation of the rig online that triigers them. even the clip on RFI chokes cant' seem to shake that. It's just the voltage change on line. RF is decoupled.

That's one of the reasons I went to the shed. The other is the electrical noise in the house. It's unbelievable what going to the shed did for me. Now I begin the process of building solar power into the station for weaning off the power grid a little at a time. VHF is already on the 12 volts solar panels and batteries with my HC-10 clock and lighting to go next.

Heating is my biggest concern right now and this is less draw I need for the operation. But insulating as I go and building the outlay with the walls is slow and messy. But when it's done, it'll be very nice. A weak signal down in the noise comes out very well. For right now I pick up the mic and talk and put it back down since it's cold metal chills your hands. But it's better than it was. Been growing over the years, better and better.

One day I hope to share it. I hope yours will get better also. I've run 830 for 30 years now. It's done me well and it's a little more immune to interference than many radios. I just did what I could to make sure it stays that way.

You may try the flagpole and add a wire on top at night so nobody knows. Run it to a tree but try not to run it toward something that it may interfere with, for that is the way the radiated signal may follow.

One more thing, check into the archives about using the ALC control that james added. It uses the 9 volt battery and a 220K ohm pot to reduce power by reducing the ALC. That may help too. It's done thru the Auxillary Jack on the back of your radio. When you get better tubes this may help you by not driving your Amplifier so hard. A really good ground is very important then. Especially with sweep tubes I hear. I have an FL-2100B and an SB-220 clone. The FL-2100B runs 2 x 572B's and the other has 4-400A's I will soon upgrade to 3-500z's when I can make a better power supply.

With Amps like these we have good ground is very important. Imagine your RFI problem barefoot. Now Imagine how much worse it gets when it passes thru the amplifier. If its a mess at 65 watts for example and your going to say 1,000 watts, you've just made it 15 times worse. So good transmission lines and good ground factor in as very important.

Use flat stock for your runs since it's lower inductance and keep your length absolutely short as you can. Don't tie to the house electrical ground. It'll radiate right back to the rest of the house and everything in it. It may act as a noise antenna to your neighbors too.

A ground for the elctric box is polluted as far as your concerned. Your radio will show you the difference just listening to it. Others may hear it too. Especially on a vertical. Verticals are known to oick up noises from other nearby resonant objects and carry the noise too.

S ostay stealth and stay isolated and decoupled.You and everybody else will be better off for it.

Any questions you know a place to run it. Oh and use a long ground rod. You may need more than one. Iv've not tried a loop on the ground yet but I hear it works and I've used a counterpoise wire in an apartment once when keeping lower power. It helps a bit when there's no ground available but watch that very high voltage on it,its a real hazard; the results can really be shocking. Even lethal.

When I found my station above ground it was in the thousands of volts.

If you apply what I told you you most likely will save yourself alot of grief. Maybe a life too.

See you on the air. 73's.

Dear John~~

Thanks for all your very useful comments.

I had moved the rig from inside the house to a new 'shack'
in the garage (see photo on QRZ), which has improved reception and
is closer to my antennas. I have baluns and coil 'chokes' on all
the antennas.

They are the real 'issue' --I know -- as I must use
attic dipoles; outdoor antennas being forbidden. Attic height
--or actually lack thereof -- also precludes verticals. No
metal gutters either. Flagpole antennas mixed results locally.

Hence the lack of any real power being applied to the rig/signal.

I have two dipoles (20 & 80-- the latter wrapped round and round the beams)and two big Cushcraft 70/2/6 mtr beams in locked due west position. These antennas do a pretty good job -- I got 91 6 mtr contacts last season -- some cross-county--using very low RF power.

Yes, RFI is an issue as all the house and cheap TV cable wiring also runs thru the attic. The grounding also a 'problem'. I have a good copper bus and good copper ribbon grounding all 14 of my rigs-- but to date I've had to hook this to nearby house ground at main breaker box. I plan to run an old shorted coax outside (10 feet) to ground stake soon; but with sandy dry Florida soil, this may not be a better solution. For this reason, most local hams use excellent club station for DX.

Thanks again for your suggestions. We'll be working on it.

73,
Bill W1WAB

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Question #1 I would get to worried over. If it works don't fix it. I have one light out on my VFO right now. I need to replace one LED and that hopefully should be the resolution to that problem, but it still works otherwise.

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11700. Re: [TS-520_820_530_830] Re: Turn off or not turn off? Lightning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 03:41:27 UTC
From: John Harp
Topic: 11439 Message: 11700

Yes your right about that cliff. I isolate everything I can. Anything with in 4 foot of it is definitely in danger when a stroke makes it's path. It's usually not stopped by a lightning surge protector either.

I've seen holes blown thru a wall where a wire was that you could crawl thru. And I'm not talkin small and tight either, I'm big too.

That's why I don't like the rig turned on and left on. It's just useless to you and an accident waiting to happen.

An electromagnetic pulse is another similar dangerous event also.

Clif <clif@...> wrote:
As far as turn off or not your choice. If you are disconnecting
everything to protect from lighting don't forget the ground wire. I
can't count the number of radios I have repaired for lightning damage
that the ONLY thing hooked up was the ground. No antenna, no computer,
no AC mains, nothing but a ground wire.

Don't ask for an explanation, there is none where lightning is concerned.

Clif

-- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I turn mine off and even tho it's got lightning protection on it I
disconnect form the mains anyway. This helps isolate it to the out
boulding away from the house. I also disconnect the vertical from the
feedline as well as set the antenna switch in an unused position or
the dummy load. If I'm not around there's no sense in the radios
running. It just runs up my electric bill and leaves the risk of
lightning wreaking havoc not to mention a fire risk. The frequency
drift isn't worth those issues.
>
> Geoff Hegarty <geoff_hegarty@...> wrote: Thanks Barry.
Something I've never heard of - but then I haven't had much to
> do with transmitters that run 10KV.
>
> Very best wishes for Christmas
> Geoff VK2HQA
>
> >From: "boat.anchor" <boat.anchor@...>
> >Reply-To: TS-520_820_530_830@yahoogroups.com
> >To: TS-520_820_530_830@yahoogroups.com
> >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> >Date: Thu, 21 Dec 2006 04:38:13 -0000
> >

> >Goeff
> >This was just a flash fom the past. I took my training way back when
> >tubes were king and there has been a lot of water under the bridge
> >since then. In fact it's been 20 years since I looked at any
> >component level electronics.
> >It was not plate stripping I was thinking of but should have read
> >cathode stripping. It used to be common belief that applying power
> >to the tubes without preheating the filaments would strip the
> >cathodes of their emitting elements, for lack of a better
> >description. A quick Google on cathode stripping reveals this only
> >happens when the HV exceeds approx 10 KV. Should not be a problem
> >for us.
> >best regards
> >Barry in Vancouver
> >VA7GEM
> >
> >--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
> ><geoff_hegarty@> wrote:
> > >
> > > Hi Barry
> > >
> > > Could you tell us a little more about "stripping the plate"
> >please. I
> > > haven't heard about this, and it sounds awful.
> > >
> > > Regards
> > > Geoff VK2HQA
> > >
> > >
> > > >From: "boat.anchor" <boat.anchor@>
> > > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > > >To: TS-520_820_530_830@yahoogroups.com
> > > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > > >Date: Thu, 21 Dec 2006 00:47:40 -0000
> > > >
> > > >Bob
> > > >I guess this disproves the old theory of stripping the plate by
> > > >leaving the power on when the heaters are off.
> > > >best regards
> > > >Barry in Vancouver
> > > >VA7GEM
> > > >
> > > >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> > > >wrote:
> > > > >
> > > > >
> > > > >I never turn it off unless I do maint on it or there is a
> > > > > bad electrical storm .I ALWAYS leave it on , even when I'm
> >away from
> > > > > home for days.....guess I feel lucky, or have faith.

> > > > > At nite....I turn the heater switch off.
> > > > > BOB N3OO
> > > > >
> > > >
> > > >
> > >
> > > _____
> > > Join the millions of Australians using Live Search. Try
> >live.com.au
> > > http://ninemsn.com.au/share/redir/adTrack.asp?
> >mode=click&clientID=740&referral=million&URL=http://live.com.au
> > >
> >
> >
>
> _____
> Advertisement: It's simple! Sell your car for just $20 at
carsales.com.au
>
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Db
in%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=e
ndtext_simple&_m=EXT
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11702. Wanted TS-520s side controls cover

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 03:52:23 UTC
From: Dennis
Topic: 11702 Message: 11702

Looking for the cover for the controls on the side panel of a 520s, if anyone has a junker or one excess to their needs, that I could buy. Seems like a lot of these go astray. This rig was complete and original, still had the Matashita tubes, but no cover. Maybe Kenwood should have shipped 'em with a little silver chain like on your bathub plug. Anyhow would like to wish all on the group and their families all the best wishes for the season and coming New Year.Hope this does not offend anyone. Dennis.....VE6AC

11705. Re: Turn off or not turn off? Lightning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 15:01:25 UTC
From: taephono
Topic: 11439 Message: 11705

On the topic of disconnecting the ground connection to all the
equipment, what are some methods of doing this quickly?
I thought of using SPDT knife switch between the main ground panel,
and ground buss at the station desk. What are others doing in this
regard?

Happly Holidays to all,
73,
Clint
WS1V

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> As far as turn off or not your choice. If you are disconnecting
> everything to protect from lighting don't forget the ground wire. I
> can't count the number of radios I have repaired for lightning damage
> that the ONLY thing hooked up was the ground. No antenna, no computer,
> no AC mains, nothing but a ground wire.
>
> Don't ask for an explanation, there is none where lightning is
concerned.
>
> Clif
>
>
>
> -- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > I turn mine off and even tho it's got lightning protection on it I
> disconnect form the mains anyway. This helps isolate it to the out
> boulding away from the house. I also disconnect the vertical from the
> feedline as well as set the antenna switch in an unused position or
> the dummy load. If I'm not around there's no sense in the radios
> running. It just runs up my electric bill and leaves the risk of
> lightning wreaking havoc not to mention a fire risk. The frequency
> drift isn't worth those issues.
> >
> > Geoff Hegarty <geoff_hegarty@> wrote: Thanks Barry.
> Something I've never heard of - but then I haven't had much to
> > do with transmitters that run 10KV.
> >
> > Very best wishes for Christmas
> > Geoff VK2HQA
> >
> > >From: "boat.anchor" <boat.anchor@>

> > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > >To: TS-520_820_530_830@yahoogroups.com
> > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > >Date: Thu, 21 Dec 2006 04:38:13 -0000
> > >
> > >Goeff
> > >This was just a flash fom the past. I took my training way back when
> > >tubes were king and there has been a lot of water under the bridge
> > >since then. In fact it's been 20 years since I looked at any
> > >component level electronics.
> > >It was not plate stripping I was thinking of but should have read
> > >cathode stripping. It used to be common belief that applying power
> > >to the tubes without preheating the filaments would strip the
> > >cathodes of their emitting elements, for lack of a better
> > >description. A quick Google on cathode stripping reveals this only
> > >happens when the HV exceeds approx 10 KV. Should not be a problem
> > >for us.
> > >best regards
> > >Barry in Vancouver
> > >VA7GEM
> > >
> > >--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
> > ><geoff_hegarty@> wrote:
> > > >
> > > > Hi Barry
> > > >
> > > > Could you tell us a little more about "stripping the plate"
> > >please. I
> > > > haven't heard about this, and it sounds awful.
> > > >
> > > > Regards
> > > > Geoff VK2HQA
> > > >
> > > >
> > > > >From: "boat.anchor" <boat.anchor@>
> > > > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > > > >To: TS-520_820_530_830@yahoogroups.com
> > > > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > > > >Date: Thu, 21 Dec 2006 00:47:40 -0000
> > > > >
> > > > >Bob
> > > > >I guess this disproves the old theory of stripping the plate by
> > > > >leaving the power on when the heaters are off.
> > > > >best regards
> > > > >Barry in Vancouver
> > > > >VA7GEM
> > > > >
> > > > >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> > > > >wrote:
> > > > > >

> > > > > >
> > > > > >I never turn it off unless I do maint on it or there is a
> > > > > > bad electrical storm .I ALWAYS leave it on , even when I'm
> > >away from
> > > > > > home for days.....guess I feel lucky, or have faith.
> > > > > > At nite....I turn the heater switch off.
> > > > > > BOB N3OO
> > > > > > >
> > > > > >
> > > > > >
> > > > >
> > > > > _____
> > > > > Join the millions of Australians using Live Search. Try
> > >live.com.au
> > > > > http://ninemsn.com.au/share/redir/adTrack.asp?
> > >mode=click&clientID=740&referral=million&URL=http://live.com.au
> > > > >
> > > >
> > > >
> > >
> > _____
> > Advertisement: It's simple! Sell your car for just $20 at
> carsales.com.au
> >
>
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT
> >
> >
> >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >
>

11708. Re: My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 17:38:50 UTC
From: Gordon
Topic: 11589 Message: 11708

Hi Bob,
Well, The No transmit turned out to be some Bad solder joints on
the Bottom of the RF board. I touched the 1.5 mhz coil for the driver
section with my probe and the thing came to life. So I removed the
board , flipped it over and went to work with Magnifier headset and my
trusty soldering iron. After I reinstalled the RF board, I removed the
IF board and did the same thing to it. The Radio is working very well
now. I have worked into Antartica and The Faukland Islands and Costa
Rica on 20 SSB barefoot. The fellow I purchased the radio from told me
that it had been to several others before me, yet no one was able to
make it work. I guess I was just more fortunate in locating the trouble.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Ok the answer to 9 volts on the 3.6 volt line was due to a broken R15
> > 3.3 k resistor that comes off the RF gain control to ground. This was
> > a new problwm for me and I am sharing in case someone else runs into
> > this same problem.
> >
> > 73,
> > Gordon
> > N6WK
> >
> > Don't ya just love it when a plan comes together !?!
> Enjoy ur new toy....I know ur grin'n.
>
> Let me see....no xmit......ummmm slide switch in back of radio was off
> ...?
> BOB N3OO
>
> >
> > >
> > >
>

11709. Re: My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 17:48:39 UTC
From: Gordon
Topic: 11589 Message: 11709

No, It looks as if the wire coming out of one end of the resistor just broke off. Perhaps due to age and vibration. The fellow I bought it from told me that it had not transmitted for years but that the RX was working fine. He said he had it packed away in a closet. He took a lightning strike at his house that took out some gear and his computer. Later on, he removed the 830 from the Closet , plugged it in and there was NO RX or TX. He told me that several others tried to fix it but no one was able to get it to RX or TX so he sold it to me as a Parts radio. I found it more fun to fix it rather then parts it out. I'm pleased that I did because it works really nice now that I have repaired and aligned it. As a bonus it has a full set of Filters and came with a VFO-230 and cable.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Boy, thats an uncommon one. Was it broken because of some mechanical force against it?
>
> Gordon <n6wk@...> wrote: Ok the answer to 9 volts on the 3.6 volt line was due to a broken R15
> 3.3 k resistor that comes off the RF gain control to ground. This was
> a new problwm for me and I am sharing in case someone else runs into
> this same problem.
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I just made a deal and purchased a NON-working TS-830s Gold for a
> > parts rig. Nice, it came with ALL the filters and the guy threw in a
> > VFO-230.
> > I received it via UPS last night. I hate to commit anything to the
> > bone yard if I can prevent it. Today I placed it on the bench.
> > NO Receive and NO transmit. I found that all the panel lights were
> > burnt out. I replaced all of them and at least had light. The digital
> > display worked. I started doing some checking today and found that the
> > 9 volt supply was high. I adjusted it back to 9 volts, No Problem.
> > I then checked the 3.6 volt supply. Whoa ..... It was 9
> > volts..... I could NOT adjust it down. I checked all the connectors
> > on the AF board and all were good. I checked VR3 and it was good and
> > clean.

> > I followed the circuit schematic and was able to locate the problem
> > by inspecting the components.
> > Anyone want to take a quess what it was ???
> > I will let you know after I get some guesses.
> >
> > One reason it didn't transmit was that there were NO tubes, but I
> > knew that when I bought it. I installed good tubes but still No ALC
> > and NO transmit. Voltages to the Final unit looked within specs.
> > I will fill you in on the TX part tomorrow.
> >
> >
> > 73,
> > Gordon
> >
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11711. 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 19:06:57 UTC
From: Gordon
Topic: 11711 Message: 11711

Has anyone swapped their 6146B tubes out for the 6883B 12 volt version ?

I was thinking of trying this mod on the 830 I have here. It puts out
about 100 watts with the 6146B's that are it it now, But it might be
fun to try the 6883B mod. It looks pretty simple, Just wewire the Heaters.

73,
Gordon

11712. Merry Christmas/Happy Holidays and Happy New Year to all!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 20:31:56 UTC
From: Roberto Baca Barnard
Topic: 11712 Message: 11712

Peace, Love, Goodwill and Understanding to our great ham radio
community!

73 and see y'all on SKN CW

wb7avf@...
wb7avf@...

11714. Re: Merry Christmas/Happy Holidays and Happy New Year to all!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 21:05:11 UTC
From: David S Lund
Topic: 11712 Message: 11714

Merry Christmas to y'all too from Texas! :)

David KB5DRJ

--- In TS-520_820_530_830@yahoogroups.com, "Roberto Baca Barnard"
<barnardbaca@...> wrote:
>
> Peace, Love, Goodwill and Understanding to our great ham radio
> community!
>
> 73 and see y'all on SKN CW
>
> wb7avf@...
> wb7avf@...
>

11717. Re: My audio uploaded to KenwoodMics group

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-24 22:15:47 UTC
From: m3snd
Topic: 11692 Message: 11717

--- In TS-520_820_530_830@yahoogroups.com, "court" <cdr_software@...>
wrote:
>Hi there i've just listened to your audio file on the kenwood group
page and was interested as to what equipment you are using to obtain
such a good tx audio.
I have an 830 and would like to get it sounding as good as yours.
Please feel free to be as technical as you like as i am a live sound
engineer but have yet to turn my talents to amateur radio audio.
Merry Christmas to you and yours.

Kev M3SND
> Anyone intrested in hearing My TS-830 in all its glory, please log
> into Kenwood mics group under files and this you can hear my kenwood
> TS-830 in all its glory. Boy you cannot beat tubes for audio thats
for
> sure !! Give us Tubes any day.
>
> please would be intrested in any comments you have , tried to post my
> audio sample on this group but there is no room. If you would like it
> i would be happy to send to whom ever wants it via their email..
>
> Merry Xmas everyone and happy new year !!
>
> Courtney McCarthy
>

11720. vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 00:11:14 UTC
From: Gordon
Topic: 11720 Message: 11720

I am getting ready to sell a VFO-230 that I recently Acquired.It works great but has some scratches on the case where it rubbed other gear. I started checking around and looks like these things sell for Big Bucks ! The last two that were on Ebay went for $385.00 each plus shipping. So, I have to ask, What makes these VFO's so valuable ?

73,
Gordon
N6WK

11721. Re: vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 00:44:15 UTC
From: ve3tmt
Topic: 11720 Message: 11721

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I am getting ready to sell a VFO-230 that I recently Acquired.It works
> great but has some scratches on the case where it rubbed other gear.
> I started checking around and looks like these things sell for Big
> Bucks ! The last two that were on Ebay went for $385.00 each plus
> shipping. So, I have to ask, What makes these VFO's so valuable ?
>
> 73,
> Gordon
> N6WK

Thats amazing Gordon, I paid $200 CDN for mine. I have considered selling my 830 line but the freight to ship it anywhere would be too much. I have the 830, SP230, VFO230 and AT230.

Max
VE3TMT

11724. Re: [TS-520_820_530_830] vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 02:37:48 UTC
From: amfone@sbcglobal.net
Topic: 11720 Message: 11724

I think what it says is that for some reason when an item is up for bid on EPAY(no not a typing error) the shark fight starts and people think they are "winning" something. I've watched current commercial items being sold used on EPAY and selling for more than a new item. Who was it that said " there is a fool born every minute". Mr. P.T. would have a field day on EPAY if he were alive today.

----- Original Message -----
From: Gordon
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 24, 2006 7:11 PM
Subject: [TS-520_820_530_830] vfo-230

I am getting ready to sell a VFO-230 that I recently Acquired.It works great but has some scratches on the case where it rubbed other gear. I started checking around and looks like these things sell for Big Bucks ! The last two that were on Ebay went for $385.00 each plus shipping. So, I have to ask, What makes these VFO's so valuable ?

73,
Gordon
N6WK

[Non-text portions of this message have been removed]

11727. Religious Debate.

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 08:02:07 UTC
From: n9wb
Topic: 11727 Message: 11727

Please Drop This Topic Here

Again, I appreciate the thoughts and prayers regarding my father.

Unfortunately this has led to a religious debate that is off topic for this forum. Both sides of this issue have been well represented and it is time for us to get back on the topic of Kenwood Hybrids.

So please drop this topic here. And lets all remain Amateur Radio friends.

Vy 73, Walt N9WB Moderator

[Non-text portions of this message have been removed]

11728. Re: [TS-520_820_530_830] 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 09:11:29 UTC
From: Peter A Markavage
Topic: 11711 Message: 11728

I don't see any gain here. Got to rewire the filaments, most likely re-neutralize, and the net result is what you had before. Now, if in the future you blow out one of the 6883's, and have no spares, then you have go find one or rewire the filaments back to 6 volts, install the 6146's and re-neutralize again. Sell the 6883's on ebay and then buy yourself a present.

Pete, wa2cwa

On Sun, 24 Dec 2006 19:06:57 -0000 "Gordon" <n6wk@...> writes:
> Has anyone swapped their 6146B tubes out for the 6883B 12 volt
> version ?
>
> I was thinking of trying this mod on the 830 I have here. It puts
> out
> about 100 watts with the 6146B's that are it it now, But it might
> be
> fun to try the 6883B mod. It looks pretty simple, Just wewire the
> Heaters.
>
> 73,
> Gordon

11730. Re: [TS-520_820_530_830] vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 16:57:39 UTC
From: John Harp
Topic: 11720 Message: 11730

Well I did mine for less than that from ebay, but for less than that. If you do your homework and bid carefully that is avioded with those since they come on ebay more frequently. Some pieces are less often seen. Like the HC-10 clock in mint condition.

You may have to bid higher for that. But VFO-230 is frequent enough you can bid and if it goes to high bid the next and so on. Mine was a repair that didn't pay the bill and the item was sold to foot the bill. It needed only one LED replaced and operated as is. They even sent the LED to do it yourself.

I forget the price now but think it was about 235 dollars.

Not a low price I grant you, but like I said learn do the homework watch what the items are going for and what the bids are flowing like and soon you'll have the gist of how the flow goes and how to get the items without more greater expense.

I find it beats going around the hamfests at the distances I must travel to take all that ime to find the bargains. That's how it used to be before the places on the web came to be. Now instead of shooting most of a weekend into hamfest you can pick and choose when you want to persue the item you want from home.

Yes you may get burnt but who really wants a bad mark on them on ebay. It comes back to haunt you later. Never bid on something you can't really afford to loose on.

You may not like the idea of buying from some stranger that you don't know of our group, but many times we're getting the gear from family of silent keys that may otherwise wind up disposed of or butchered. So we do a good thing here this way too. We get it into the group possibly with this move eventually instead of a landfill or some ocean dumping.

Presonally, I've not been burned yet on ebay. Sometimes just by asking I get an interesting story to go with the item.

But a strategy to purchasing goes a long way. Watch other sources as well and soon enough you'll have what your looking for. All resources have thier plusses and thier minuses. If you need it now and don't mind the the cash for the opportunity then ebay is good. If the bargain is top priority because you want to sell for some profit then it may well not be the better alternative. Although I have seller status I don't sell gear on ebay. It just is bought for my station and used till it can't be used anymore.

amfone@... wrote:
I think what it says is that for some reason when an item is up for bid on EPAY(no not a typing error) the shark fight starts and people think they are "winning" something. I've watched current commercial items being sold used on EPAY and selling for more than a new item. Who was it that said " there is a fool born every minute". Mr. P.T. would have a field day on EPAY if he were alive today.

----- Original Message -----
From: Gordon

To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 24, 2006 7:11 PM
Subject: [TS-520_820_530_830] vfo-230

I am getting ready to sell a VFO-230 that I recently Acquired.It works great but has some scratches on the case where it rubbed other gear. I started checking around and looks like these things sell for Big Bucks ! The last two that were on Ebay went for $385.00 each plus shipping. So, I have to ask, What makes these VFO's so valuable ?

73,
Gordon
N6WK

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11731. Re: [TS-520_820_530_830] Re: vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 17:10:47 UTC
From: John Harp
Topic: 11720 Message: 11731

Well Gordon you bring up a god point. Some of it is because somebody knows they can get that at certain times of the year like before christmas. They know what the potential is of that item when someone wants it bad enough or if you rarely see it. The condition of an item has alot to do with it too.

Other times an auction is from a silent key and the departed family knows little about the item. Often sold as is, you must base your purchase and bid upon that given information at that time, considering the resource. The condition of the item many times won't have as much to do with it as much since the seller in this case won't know as much about the item.

To summerize the answer, it depends upon the scenarios of item by item.

That is what I found to be the answer to that very same question which I early on asked myself. This is what I've found to be the more obvious answer to be.

ve3tmt <ve3tmt@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> I am getting ready to sell a VFO-230 that I recently Acquired.It works
> great but has some scratches on the case where it rubbed other gear.
> I started checking around and looks like these things sell for Big
> Bucks ! The last two that were on Ebay went for $385.00 each plus
> shipping. So, I have to ask, What makes these VFO's so valuable ?
>
> 73,
> Gordon
> N6WK

Thats amazing Gordon, I paid $200 CDN for mine. I have considered selling my 830 line but the freight to ship it anywhere would be too much. I have the 830, SP230, VFO230 and AT230.

Max
VE3TMT

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11732. Re: [TS-520_820_530_830] 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 17:22:53 UTC
From: John Harp
Topic: 11711 Message: 11732

Well Gordon, like you I have considered that mod also. I like you I can mod and mod again without it bothering me. I havew chosen to put it off for right now since I have to many irons in the fire at the moment.

I would think after rewire and neutralization the radio should work fine. Any difference in power should be realized by a change in filament power I would think. I suppose it would be nice to have the idea tried and the results archived for the futrure.

I have begun the process of converting my station to solar by steps. Thus considering the possibility of trying 12 volts for solar as well as portable and maybe the mod for as I say archival to the future.

Gordon <n6wk@...> wrote:
Has anyone swapped their 6146B tubes out for the 6883B 12 volt version ?

I was thinking of trying this mod on the 830 I have here. It puts out
about 100 watts with the 6146B's that are it it now, But it might be
fun to try the 6883B mod. It looks pretty simple, Just wewire the Heaters.

73,
Gordon

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11733. Re: [TS-520_820_530_830] Re: My Newest TS-830 Project

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 17:25:55 UTC
From: John Harp
Topic: 11589 Message: 11733

That sounds like one I would enjoy the challenge of if I had the troubleshooting gear and the time like I used to. Good to hear that one. Thanks.

Gordon <n6wk@...> wrote: No, It looks as if the wire coming out of one end of the resistor just
broke off. Perhaps due to age and vibration. The fellow I bought it
from told me that it had not transmitted for years but that the RX was
working fine. He said he had it packed away in a closet. He took a
lightning strike at his house that took out some gear and his
computer. Later on, he removed the 830 from the Closet , plugged it in
and there was NO RX or TX. He told me that several others tried to fix
it but no one was able to get it to RX or TX so he sold it to me as a
Parts radio. I found it more fun to fix it rather then parts it out.
I'm pleased that I did because it works really nice now that I have
repaired and aligned it. As a bonus it has a full set of Filters and
came with a VFO-230 and cable.
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Boy, thats an uncommon one. Was it broken because of some mechanical
force against it?
>
> Gordon <n6wk@...> wrote: Ok the answer to 9 volts on the
3.6 volt line was due to a broken R15
> 3.3 k resistor that comes off the RF gain control to ground. This was
> a new problwm for me and I am sharing in case someone else runs into
> this same problem.
>
> 73,
> Gordon
> N6WK
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > I just made a deal and purchased a NON-working TS-830s Gold for a
> > parts rig. Nice, it came with ALL the filters and the guy threw in a
> > VFO-230.
> > I received it via UPS last night. I hate to commit anything to the
> > bone yard if I can prevent it. Today I placed it on the bench.
> > NO Receive and NO transmit. I found that all the panel lights were
> > burnt out. I replaced all of them and at least had light. The digital
> > display worked. I started doing some checking today and found that the
> > 9 volt supply was high. I adjusted it back to 9 volts, No Problem.

> > I then checked the 3.6 volt supply. Whoa ..... It was 9
> > volts..... I could NOT adjust it down. I checked all the connectors
> > on the AF board and all were good. I checked VR3 and it was good and
> > clean.
> > I followed the circuit schematic and was able to locate the problem
> > by inspecting the components.
> > Anyone want to take a quess what it was ???
> > I will let you know after I get some guesses.
> >
> > One reason it didn't transmit was that there were NO tubes, but I
> > knew that when I bought it. I installed good tubes but still No ALC
> > and NO transmit. Voltages to the Final unit looked within specs.
> > I will fill you in on the TX part tomorrow.
> >
> >
> > 73,
> > Gordon
> >
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11734. Re: [TS-520_820_530_830] Re: Turn off or not turn off? Lightning

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 17:34:03 UTC
From: John Harp
Topic: 11439 Message: 11734

Well that is one way to do that but you want to turn off the other wire as well so there is no power anywhere in the circuits.

But just as importantly you want to remove all station grounding. you know that goes to the ground lugs on the rear. They are separate grounding from the wal power grounding.

In concept, no enegy in circuits and isolation are your best bets. But also remember that a direct hit is a direct hit. Nothing avoids damage of a direct hit. You can how ever reduce the likeliness of static charge and nearby strokes.

taephono <taephono@...> wrote:
On the topic of disconnecting the ground connection to all the
equipment, what are some methods of doing this quickly?
I thought of using SPDT knife switch between the main ground panel,
and ground buss at the station desk. What are others doing in this
regard?

Happly Holidays to all,
73,
Clint
WS1V

--- In TS-520_820_530_830@yahoogroups.com, "Clif" <clif@...> wrote:
>
> As far as turn off or not your choice. If you are disconnecting
> everything to protect from lighting don't forget the ground wire. I
> can't count the number of radios I have repaired for lightning damage
> that the ONLY thing hooked up was the ground. No antenna, no computer,
> no AC mains, nothing but a ground wire.
>
> Don't ask for an explanation, there is none where lightning is
concerned.
>
> Clif
>
>
>
> -- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@> wrote:
> >
> > I turn mine off and even tho it's got lightning protection on it I
> disconnect form the mains anyway. This helps isolate it to the out
> boulding away from the house. I also disconnect the vertical from the
> feedline as well as set the antenna switch in an unused position or
> the dummy load. If I'm not around there's no sense in the radios
> running. It just runs up my electric bill and leaves the risk of
> lightning wreaking havoc not to mention a fire risk. The frequency

> drift isn't worth those issues.
> >
> > Geoff Hegarty <geoff_hegarty@> wrote: Thanks Barry.
> Something I've never heard of - but then I haven't had much to
> > do with transmitters that run 10KV.
> >
> > Very best wishes for Christmas
> > Geoff VK2HQA
> >
> > >From: "boat.anchor" <boat.anchor@>
> > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > >To: TS-520_820_530_830@yahoogroups.com
> > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > >Date: Thu, 21 Dec 2006 04:38:13 -0000
> > >
> > >Goeff
> > >This was just a flash fom the past. I took my training way back when
> > >tubes were king and there has been a lot of water under the bridge
> > >since then. In fact it's been 20 years since I looked at any
> > >component level electronics.
> > >It was not plate stripping I was thinking of but should have read
> > >cathode stripping. It used to be common belief that applying power
> > >to the tubes without preheating the filaments would strip the
> > >cathodes of their emitting elements, for lack of a better
> > >description. A quick Google on cathode stripping reveals this only
> > >happens when the HV exceeds approx 10 KV. Should not be a problem
> > >for us.
> > >best regards
> > >Barry in Vancouver
> > >VA7GEM
> > >
> > >--- In TS-520_820_530_830@yahoogroups.com, "Geoff Hegarty"
> > ><geoff_hegarty@> wrote:
> > > >
> > > > Hi Barry
> > > >
> > > > Could you tell us a little more about "stripping the plate"
> > >please. I
> > > > haven't heard about this, and it sounds awful.
> > > >
> > > > Regards
> > > > Geoff VK2HQA
> > > >
> > > >
> > > > >From: "boat.anchor" <boat.anchor@>
> > > > >Reply-To: TS-520_820_530_830@yahoogroups.com
> > > > >To: TS-520_820_530_830@yahoogroups.com
> > > > >Subject: [TS-520_820_530_830] Re: Turn off or not turn off?
> > > > >Date: Thu, 21 Dec 2006 00:47:40 -0000
> > > > >

> > > > >Bob
> > > > >I guess this disproves the old theory of stripping the plate by
> > > > >leaving the power on when the heaters are off.
> > > > >best regards
> > > > >Barry in Vancouver
> > > > >VA7GEM
> > > > >
> > > > >--- In TS-520_820_530_830@yahoogroups.com, "Bob" <bob7255khz@>
> > > > >wrote:
> > > > > >
> > > > > >
> > > > > >I never turn it off unless I do maint on it or there is a
> > > > > > bad electrical storm .I ALWAYS leave it on , even when I'm
> > >away from
> > > > > > home for days.....guess I feel lucky, or have faith.
> > > > > > At nite....I turn the heater switch off.
> > > > > > BOB N3OO
> > > > > >
> > > > >
> > > > >
> > > > >
> > > >
> > > > _____
> > > > Join the millions of Australians using Live Search. Try
> > >live.com.au
> > > > http://ninemsn.com.au/share/redir/adTrack.asp?
> > >mode=click&clientID=740&referral=million&URL=http://live.com.au
> > > >
> > >
> > >
> >
> > _____
> > Advertisement: It's simple! Sell your car for just $20 at
> carsales.com.au
> >
>
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT
> >
> >
> >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> > [Non-text portions of this message have been removed]
> >

>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11735. Happy Holidays..

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 17:40:59 UTC
From: John Harp
Topic: 11735 Message: 11735

Well To each of you who ever you are and how ever you spend your holidays ni your own specail ways and by your own personal beliefs I wish you the best for the times.
John-KA3DPW Parkesburg, Pennsylvania where the lights glow in the windows as you pass by the Amish buggies....

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11736. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 18:01:44 UTC
From: Yves Remedios
Topic: 11711 Message: 11736

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Has anyone swapped their 6146B tubes out for the
> 6883B 12 volt version ?

I have bought 6883B valves on the grounds that this should work but I have not yet had reason to install the valves.

The story going round is that there is a huge supply of 6883B valves in the USA so they should be cheap to obtain as 6146B substitutes. However, the 6883B valves that have appeared on eBay in the last three months have been offered at similar prices to the 6146B so in these circumstances I would rather use the 6146B.

In the last month I have seen a USA eBay seller offering a case of GE 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the W variant but I would have thought its not worth considering 6883B at this moment in time.

11737. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 18:13:51 UTC
From: Stephen Goldberg
Topic: 11711 Message: 11737

Been using late date 6146Ws in my TS-530s and FT-901D for years. Get full output (100W +) on all bands.
Happy hollidays to all.
Steve W4IMF

----- Original Message -----
From: Yves Remedios
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 25, 2006 1:01 PM
Subject: [TS-520_820_530_830] Re: 6146B / 6883B

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Has anyone swapped their 6146B tubes out for the
> 6883B 12 volt version ?

I have bought 6883B valves on the grounds that this should work but I have not yet had reason to install the valves.

The story going round is that there is a huge supply of 6883B valves in the USA so they should be cheap to obtain as 6146B substitutes. However, the 6883B valves that have appeared on eBay in the last three months have been offered at similar prices to the 6146B so in these circumstances I would rather use the 6146B.

In the last month I have seen a USA eBay seller offering a case of GE 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the W variant but I would have thought its not worth considering 6883B at this moment in time.

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.27/602 - Release Date: 12/25/2006 10:19 AM

11738. AT-200 Service Manual...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 18:30:47 UTC
From: Jeffrey P. Nast
Topic: 11738 Message: 11738

Hello everyone,

A couple months ago my AT-200 started acting up when trying to tune up on 160m. Previous to that 160m worked fine. All other bands tune in well.

Since I actually had a couple minutes to do something last night, I tried tuning in another similar antenna with the same results. So I figured the problem is in the AT-200.

After I pulled the covers off, the first thing I noticed was some black soot on the ceramic insulator that holds L4 to the phenolic board. Because smoke rises, I looked below L4. The insulation for the red wire coming from VC2 to the Band rotary switch position #1 (front) was charred near the rotary switch!

Upon closer inspection, the Band rotary switch has two wafers, what I'll call front (closest to the knobs) and back (closest to the connectors). When operating the Band rotary switch, I noticed that the back wafer was fine, but the front wafer had a quite a bit of slop to it. When the switch was in the 160m position, the front wafer switch was still contacting both positions 1 and 2, rather than just 1 only. I to a pointed instrument and moved the contact to the correct position and then the 160m tuned in fine.

I think that the charred insulation and the sloppy wafer switch are related. Any reason for the charred insulation? Lightning is my guess... Then the resulting heat affected the wafer switch.

So I have to replace/fix the front wafer on the Band rotary switch.
* Does anyone have an AT-200 Service Manual?
* If not, can someone tell me the part number for the "Band" rotary switch?
* East Coast does list a couple of rotary switches for the AT-200. One subs to the other. I'm hoping they are still in stock...
* If not, is there another source for rotary switches? Yes, I know... another AT-200. ;-)

Thank you for your assistance! I really enjoy this list and have learned multitudes of things from the group. Merry Christmas!

-Jeff Nast
KC0MKS

11739. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 18:32:21 UTC
From: Gordon
Topic: 11711 Message: 11739

Pete,
the only Gain I was possibly thinking is that the 6883B tubes are
less expensive then the 6146WMP tubes that I currently use and the
S-2001's or the 6146B's tube are very hard to find. I think the Last
Pair of 6146/MP tubes that I bought from RF Parts was over $70 bucks
shipped. I see 6883B's NOS on ebay for way less then that all the time.
Plus I like tinkering with Radios. hi hi...

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, Peter A Markavage
<pmarkavage@...> wrote:
>
> I don't see any gain here. Got to rewire the filaments, most likely
> re-neutralize, and the net result is what you had before. Now, if in the
> future you blow out one of the 6883's, and have no spares, then you have
> go find one or rewire the filaments back to 6 volts, install the 6146's
> and re-neutralize again. Sell the 6883's on ebay and then buy yourself a
> present.
>
> Pete, wa2cwa
>
> On Sun, 24 Dec 2006 19:06:57 -0000 "Gordon" <n6wk@...> writes:
> > Has anyone swapped their 6146B tubes out for the 6883B 12 volt
> > version ?
> >
> > I was thinking of trying this mod on the 830 I have here. It puts
> > out
> > about 100 watts with the 6146B's that are it it now, But it might
> > be
> > fun to try the 6883B mod. It looks pretty simple, Just wewire the
> > Heaters.
> >
> > 73,
> > Gordon
>

11740. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 18:36:47 UTC
From: Gordon
Topic: 11711 Message: 11740

I might just give it a go. It should be just Cut a Trace, run two
wires. Neutralization takes about a minute when using a Scope to do
it. Otherise It sounds fairly simple, in theory.
If i do it, I will document each step and take good pictures to write
an Article on it. Need to pick up a couple of 6883B's first hi hi...
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well Gordon, like you I have considered that mod also. I like you I
can mod and mod again without it bothering me. I havew chosen to put
it off for right now since I have to many irons in the fire at the moment.
>
> I would think after rewire and neutralization the radio should
work fine. Any difference in power should be realized by a change in
filament power I would think. I suppose it would be nice to have the
idea tried and the results archived for the futrure.
>
> I have begun the process of converting my station to solar by
steps. Thus considering the possibility of trying 12 volts for solar
as well as portable and maybe the mod for as I say archival to the future.
>
>
>
> Gordon <n6wk@...> wrote:
> Has anyone swapped their 6146B tubes out for the 6883B 12
volt version ?
>
> I was thinking of trying this mod on the 830 I have here. It puts out
> about 100 watts with the 6146B's that are it it now, But it might be
> fun to try the 6883B mod. It looks pretty simple, Just wewire the
Heaters.
>
> 73,
> Gordon
>
>
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

>
> [Non-text portions of this message have been removed]
>

11741. Re: [TS-520_820_530_830] Re: vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 19:38:50 UTC
From: Geoff Hegarty
Topic: 11720 Message: 11741

Good advice, John.

I always contact the seller and ask a couple of questions about the item. It's surprising how a few words can reveal a lot about the type of person you're dealing with. As you say, they may be selling for a silent key in the family and know nothing about the equipment, but be perfectly sincere. It's not fool-proof, but it all helps in making a sound decision.

Regards
Geoff VK2HQA

>From: John Harp <ka3dpw@...>

> Other times an auction is from a silent key and the departed family
>knows little about the item. Often sold as is, you must base your purchase
>and bid upon that given information at that time, considering the resource.
>The condition of the item many times won't have as much to do with it as
>much since the seller in this case won't know as much about the item.

Advertisement: Mobiles, computers, handsets, iPODs and more!
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fwww%2Etradingpost%2Ecom%2Eau%2Fsearch%2Fcat%5FPhones%5Fns%5FTrue%5Foff%5F0%5Fsect%5FAutomotive%5Fsort%5FotRZSQ1BJDZfdRZSQSearchDisplayPriorityIndAVSCotRZSQ1BJDZfdRZSQFirstPublished%5Fsqt%5F2%5Fsrch%5Fmobile%2Bphones%5Fsrchtype%5Fint%5Fstate%5F9%5Fstpg%5F1%5Fsubs%5FUsed%2BCars%5F%3Freferrer%3Dplacement13&_t=759568604&_r=Email_Tagline1&_m=EXT

11742. Re: [TS-520_820_530_830] AT-200 Service Manual...

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 21:05:23 UTC
From: Graham Ridgeway
Topic: 11738 Message: 11742

On Mon, 25 Dec 2006 12:30:47 -0600, "Jeffrey P. Nast"
<jpnast@....us> wrote:

>Hello everyone,
>

>* Does anyone have an AT-200 Service Manual?

This may or may not help - I went to http://bama.sbc.edu/kenwood-.htm

They have manuals inDjVu format [*] -including the AT200 - it requires
an installer - easily got for Windows - the IE version is a quickie.

[*] This seems to be a protected site- however using guest/guest as
user/password got me instant access.

Good Luck

73 Graham M5AAV

11743. RE: [TS-520_820_530_830] Re: N9WB Family Issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 21:33:30 UTC
From: Walter Milton
Topic: 11639 Message: 11743

Triple Amen!!!

Walt., KA2NJF
Psalm 1
A child of the Living God

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon Brown
Sent: Sunday, December 24, 2006 10:01 AM
To: TS-520_820_530_830@yahoogroups.com
Subject: Re: [TS-520_820_530_830] Re: N9WB Family Issues

Amen and Amen

Gordon
KE4WE
----- Original Message -----
From: n9wb
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com
Sent: Sunday, December 24, 2006 9:55 AM
Subject: [TS-520_820_530_830] Re: N9WB Family Issues

Let there be no mistake that I am very grateful for the prayers for my
Father's recovery. God is a very important part of my life and I cannot
imagine what my life would be without God.

Each person is entitled to their own belief, disbelief, and life
philosophy.
And that includes those who make the choice not to believe. However, I do
not understand how a person expressing personal concern for another within
the realm of their personal beliefs could be an insult.

My Father is showing progress. My personal belief is that the prayers of
many have largely contributed to his progress.

I thank those who are praying for my Father. I ask for continued prayer.

Whatever your life philosophy, I wish you the best for the holidays. It is
my personal choice to celebrate the holidays as Christmas.

Walter A. Breining

----- Original Message -----
From: Bill Crowell
To: TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>

830@yahoogroups.com
Sent: Saturday, December 23, 2006 11:42 AM
Subject: [TS-520_820_530_830] Re: N9WB Family Issues

I don't think you should assume that everyone would WANT you to
"include them in your prayers". I, for one, am an unwavering atheist,
and I would be quite insulted if someone sent me a presumptuous
message like that. It's best to leave your religion out of
non-religious discussions. Bill Crowell, W6WBJ

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11744. HAPPY HOLIDAYS WITH YOUR TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 21:53:46 UTC
From: Walter Milton
Topic: 11744 Message: 11744

All,

Merry Christmas to you and yours this time of the year. May you enjoy your vintage Kenwood if you have the time off.

From the Milton family
Walt. , KA2NJF
Psalm 1
A child of the Living God

[Non-text portions of this message have been removed]

11745. rest

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 22:15:25 UTC
From: Don
Topic: 11745 Message: 11745

Ok group it's time to let it rest.
Merry Christmas and Happy New Year.
Don.
W4JVY

11746. And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-25 22:58:32 UTC
From: David S Lund
Topic: 11746 Message: 11746

Can someone explain the operation of the EXT REC ANT jack on the
520SE? Does it connect to the receiver's antenna jack? The manual is
very brief.

Thanks,

David KB5DRJ

11747. Re: [TS-520_820_530_830] Re: vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 12:28:43 UTC
From: John Harp
Topic: 11720 Message: 11747

Yes and sometimes you may find out something about the story of the previous owner.

For example: my vfo came from a repairthat didn't pay. but the vfo I got was from a retired fire chief of Lima Ohio of many years. He passed on and the family left the equipment in the house where he formerly lived with no interest in it's financial returns for the effort. The new tenant saw the opportunity and made a dolar but knew not what she had.

As for my second 830, it was owned by a CW net op in New Jersey. The father got to a point where his health could no longer enjoy the radio, so the daughter sold the radio on ebay and I got high bid. I think 275 dollars was it's price.

That's why I say do the homework and if you have the time work the bids. It can take a while but if you can wait you'll likely have what you want.

There's something else to think of in the long run, The more bid war goes on the higher you pay and for each of those someone looks at what was paid and figures they can get that just like the last one did. So if you can bid and move on to the lower bid to win, transaction by transaction thus the price stays lower for other buyers in the future.

Geoff Hegarty <geoff_hegarty@...> wrote:
Good advice, John.

I always contact the seller and ask a couple of questions about the item.
It's surprising how a few words can reveal a lot about the type of person
you're dealing with. As you say, they may be selling for a silent key in the
family and know nothing about the equipment, but be perfectly sincere. It's
not fool-proof, but it all helps in making a sound decision.

Regards
Geoff VK2HQA

>From: John Harp <ka3dpw@...>

> Other times an auction is from a silent key and the departed family
>knows little about the item. Often sold as is, you must base your purchase
>and bid upon that given information at that time, considering the resource.
>The condition of the item many times won't have as much to do with it as
>much since the seller in this case won't know as much about the item.

Advertisement: Mobiles, computers, handsets, iPODs and more!
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fwww%2Etradingpost%2Ecom%2Eau%2Fsearch%2Fcat%5FPhones%5Fns%5FTrue%5Foff%5F0%5Fsect%5FAutomotive%5Fsort%5FotRZSQ1BJDZfdRZSQSearchDisplayPriorityIndAVSCotRZSQ1BJDZfdRZSQFirstPublished%5Fsqt%5F2%5Fsrch%5Fmobile%2Bphones%5Fsrchtype%5Fint%5Fstate%5F9%5Fstpg%5F1%5Fsubs%5FUsed%2BCars%5F%3Freferrer%3Dplacement13&_t=759568604&_r=Email_Tagline1&_m=EXT

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11748. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 12:33:19 UTC
From: John Harp
Topic: 11711 Message: 11748

Ya know Gordon it may give us an alternative to units with bad transformers if this works. Thus we can wire to 12 volt supplies to operate the radio if we find a way around high voltage supplies. 520's had such accessory.

Gordon <n6wk@...> wrote: I might just give it a go. It should be just Cut a Trace, run two wires. Neutralization takes about a minute when using a Scope to do it. Otherise It sounds fairly simple, in theory.
If i do it, I will document each step and take good pictures to write an Article on it. Need to pick up a couple of 6883B's first hi hi...
73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> Well Gordon, like you I have considered that mod also. I like you I can mod and mod again without it bothering me. I havew chosen to put it off for right now since I have to many irons in the fire at the moment.
>
> I would think after rewire and neutralization the radio should work fine. Any difference in power should be realized by a change in filament power I would think. I suppose it would be nice to have the idea tried and the results archived for the futrure.
>
> I have begun the process of converting my station to solar by steps. Thus considering the possibility of trying 12 volts for solar as well as portable and maybe the mod for as I say archival to the future.
>
>
>
> Gordon <n6wk@...> wrote:
> Has anyone swapped their 6146B tubes out for the 6883B 12 volt version ?
>
> I was thinking of trying this mod on the 830 I have here. It puts out
> about 100 watts with the 6146B's that are it it now, But it might be
> fun to try the 6883B mod. It looks pretty simple, Just wewire the Heaters.
>
> 73,
> Gordon
>
>
>
>
>

> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11749. Re: [TS-520_820_530_830] And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 13:09:24 UTC
From: n9wb
Topic: 11746 Message: 11749

I believe it allows the antenna to be fed to another receiver. This is as opposed to allowing a separate receive antenna as one might think. See page 16 of your manual.

Vy 73, Walt N9WB

----- Original Message -----
From: David S Lund
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 25, 2006 5:58 PM
Subject: [TS-520_820_530_830] And Now for Something Completely Different - EXT REC ANT jack

Can someone explain the operation of the EXT REC ANT jack on the
520SE? Does it connect to the receiver's antenna jack? The manual is
very brief.

Thanks,

David KB5DRJ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.27/602 - Release Date: 12/25/06

[Non-text portions of this message have been removed]

11750. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 15:18:09 UTC
From: Yves Remedios
Topic: 11711 Message: 11750

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Pair of 6146/MP tubes that I bought from RF Parts was
> over $70 bucks shipped. I see 6883B's NOS on ebay for
> way less then that all the time. Plus I like tinkering
> with Radios. hi hi...

I have a couple of problems with RF Parts. Firstly, they don't like shipping outside the USA and secondly, they are very expensive.

As I said earlier, I bought GE 6146W JAN from thetubecenter on ebay and they currently have an auction 330065730914 for $24.99/pair plus $5.95 shipping. He charged me $10 to ship three pairs to the UK. I don't know if you can better that price with the 6883B currently.

11751. Re: [TS-520_820_530_830] And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 18:03:18 UTC
From: Graham Ridgeway
Topic: 11746 Message: 11751

On Tue, 26 Dec 2006 08:09:24 -0500, "n9wb" <n9wb@...> wrote:

>I believe it allows the antenna to be fed to another receiver. This is as opposed to allowing a separate receive antenna as one might think. See page 16 of your manual.
>

I disagree.....looking at the Service Manual it allows the use of a separate antenna on receive.

In the normal position it uses the same antenna [the SO239] on Rx and Tx, switched across to 'ext' it uses the other socket on the Rx path [and also avoids two sets of relay contacts] - could be very handy if you have space for, say, a Beverage on 160 for Rx as well as a suitable vertical for Tx.

73 Graham M5AAV

11752. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 18:13:59 UTC
From: Ellen R
Topic: 11711 Message: 11752

I have a set of JAN 6146Ws in my TS-820. They're fine. They
neutralized very well for me, and I get about 110 to 130W out with
them.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Yves Remedios" <remedya-
list-yahoo@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Has anyone swapped their 6146B tubes out for the
> > 6883B 12 volt version ?
>
> I have bought 6883B valves on the grounds that this should work but
I
> have not yet had reason to install the valves.
>
> The story going round is that there is a huge supply of 6883B valves
> in the USA so they should be cheap to obtain as 6146B substitutes.
> However, the 6883B valves that have appeared on eBay in the last
three
> months have been offered at similar prices to the 6146B so in these
> circumstances I would rather use the 6146B.
>
> In the last month I have seen a USA eBay seller offering a case of
GE
> 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the
W
> variant but I would have thought its not worth considering 6883B at
> this moment in time.
>

11753. Re: And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 18:23:30 UTC
From: Ellen R
Topic: 11746 Message: 11753

Bummer! A separate Receive Antenna jack would be very useful for bands like 160m, where separate receive antennas are very useful. It would elminate the hassle of having to use a relay/sequncer to switch antennas. I'm surpised that the TS-520SE has it and my TS-820 doesn't. But then again, my 820 is an earlier radio, and maybe they didnt' offer it until the 520S & 820S lines came out.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I believe it allows the antenna to be fed to another receiver. This is as opposed to allowing a separate receive antenna as one might think. See page 16 of your manual.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: David S Lund
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 25, 2006 5:58 PM
> Subject: [TS-520_820_530_830] And Now for Something Completely Different - EXT REC ANT jack
>
>
> Can someone explain the operation of the EXT REC ANT jack on the
> 520SE? Does it connect to the receiver's antenna jack? The manual is
> very brief.
>
> Thanks,
>
> David KB5DRJ
>
>
>
>
>
>
>
> ----------
>
>
> No virus found in this incoming message.

> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.27/602 - Release Date:
12/25/06
>
>
> [Non-text portions of this message have been removed]
>

11754. Re: HAPPY HOLIDAYS WITH YOUR TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 18:25:50 UTC
From: Ellen R
Topic: 11744 Message: 11754

Hi Walter,

I have off today, and after I'm done running some errands, I intend
to fire up Ms. TS-820.

73 & Happy Holidays to all,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton"
<wmilton@...> wrote:
>
> All,
>
> Merry Christmas to you and yours this time of the year. May you
enjoy your
> vintage Kenwood if you have the time off.
>
> From the Milton family
> Walt. , KA2NJF
> Psalm 1
> A child of the Living God
>
>
>
>
> [Non-text portions of this message have been removed]
>

11755. Re: vfo-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 21:02:56 UTC
From: james27613
Topic: 11720 Message: 11755

hi,

I've built my entire hf station from used gear on ebay
and I did not pay too much.

ts520, 530, ts50 and accessories including transverters.

If I find errors in the listings I email the seller to
tell them, helped many td570 owners get more for their
estate rigs (570 dg or t573S) by looking at the rear s/n stickers.

if they need manuals I point them to the websites.

Timing is also a big factor, just picked up a nice
ts-570S estate sale from the xyl at a great price.

I've also seen gear at the hamfests go for top dollar too !

Just like buying that used car or dream home, there is always
another one just like it !

73 james ke4drn

11756. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 21:32:51 UTC
From: Dennis Windle
Topic: 11711 Message: 11756

Ellen, are the JAN 6146W's you installed in your 820 made by GE or some other Mfg ?

Thanks
D.Windle
----- Original Message -----
From: Ellen R
To: TS-520_820_530_830@yahoogroups.com
Sent: Tuesday, December 26, 2006 1:13 PM
Subject: [TS-520_820_530_830] Re: 6146B / 6883B

I have a set of JAN 6146Ws in my TS-820. They're fine. They
neutralized very well for me, and I get about 110 to 130W out with
them.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Yves Remedios" <remedya-
list-yahoo@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Has anyone swapped their 6146B tubes out for the
> > 6883B 12 volt version ?
>
> I have bought 6883B valves on the grounds that this should work but
I
> have not yet had reason to install the valves.
>
> The story going round is that there is a huge supply of 6883B valves
> in the USA so they should be cheap to obtain as 6146B substitutes.
> However, the 6883B valves that have appeared on eBay in the last
three
> months have been offered at similar prices to the 6146B so in these
> circumstances I would rather use the 6146B.
>
> In the last month I have seen a USA eBay seller offering a case of
GE
> 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the
W
> variant but I would have thought its not worth considering 6883B at
> this moment in time.
>

[Non-text portions of this message have been removed]

11757. RE: [TS-520_820_530_830] Re: HAPPY HOLIDAYS WITH YOUR TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 21:52:55 UTC
From: Walter Milton
Topic: 11744 Message: 11757

Hi Ellen,

I wish that I saw your email earlier I would have like to try and make
contact with you. I was out with the Grandkid and just returned home. I
will keep looking and maybe we will get the opportunity sometime this week.

Walt., KA2NJF
Psalm 1
A child of the Living God

From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
Sent: Tuesday, December 26, 2006 1:26 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: HAPPY HOLIDAYS WITH YOUR TS-830

Hi Walter,

I have off today, and after I'm done running some errands, I intend
to fire up Ms. TS-820.

73 & Happy Holidays to all,
Ellen - AF9J

--- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
830@yahoogroups.com, "Walter Milton"
<wmilton@...> wrote:
>
> All,
>
> Merry Christmas to you and yours this time of the year. May you
enjoy your
> vintage Kenwood if you have the time off.
>
> From the Milton family
> Walt. , KA2NJF
> Psalm 1
> A child of the Living God
>
>
>
>
> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

11758. TS-830s on 12v with DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 23:16:31 UTC
From: Michael Bellis
Topic: 11758 Message: 11758

This is only my second post, although I have been watching diligently for about six weeks --- want to thank John Harp for his kind responce to my inquiry about transverters a couple of weeks ago and praise his refusal to get involved in the recent ruckus. Now to my question. I have an 830s that was bought in Singapore in 1981, it's had the mod to it's main transformer circuitry allowing it to operate on 120v. But I do see some reference to it's main transformer having DC windings unlike US models, thus perhaps allowing it to accept the dc to dc DS-2 power supply. Any knowledge about this would be appreciated and if it's true, anyone with a DS-2 for sale would be and instant friend! won't be able to respond until 12-30-06.
73
Michael

11759. Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-26 23:51:34 UTC
From: Jeff May
Topic: 11759 Message: 11759

Acquired a TS520S brand new in the box with original 1978 sales receipt...never used ...29 years old...works perfectly with wonderful audio transmit and receive...quite a testimony to a 29 year old never used radio...Jeff...W0XV

[Non-text portions of this message have been removed]

11760. TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 03:58:02 UTC
From: Luke
Topic: 1213 Message: 11760

I am new to ham radio and I am currently working on my FCC license but I went ahead and got a TS-520 on ebay and I was wondering if it must have the VFO-520 to go with it or will it work without it? What exactly does a VFO do anyway? Like I said I am still learning and any infomation will help alot. Thanks, Luke.

11761. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 05:18:01 UTC
From: David S Lund
Topic: 1213 Message: 11761

--- In TS-520_820_530_830@yahoogroups.com, "Luke" <lk_consulting@...>
wrote:
>
> I am new to ham radio and I am currently working on my FCC license but
> I went ahead and got a TS-520 on ebay and I was wondering if it must
> have the VFO-520 to go with it or will it work without it? What exactly
> does a VFO do anyway? Like I said I am still learning and any
> infomation will help alot. Thanks, Luke.
>

Hi Luke,

You do not have to have a VF0-520 for the TS-520 to work. There are a couple of pins on the VF0 connector jack on the back of the rig that have to be jumpered if you don't have a VF0-520. The purpose of the VFO-520 is to allow split operation - transmitting on one frequency while receiving on the other.

Hope this helps some. :)

David KB5DRJ

11762. Re: [TS-520_820_530_830] TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 05:17:03 UTC
From: Kelly Maiden
Topic: 1213 Message: 11762

VFO is an acronym for "variable frequency oscillator". On your 520, the
VFO allows you to vary the operating frequency continuously within the band.
For example: the phone portion of the 20 meter amateur band is from
14.225 to 14.350 Mhz. (for general class licensee's).
To tune in stations on this band, you switch the band switch to the 20
meter (14 Mhz.) position, and then the VFO allows you to
vary the operating frequency within the band. The 520, unless it has a
digital display added, has an analog VFO.
The owners manual will describe how to calibrate the dial to the marker
signal and then you have to read the markings to determine
your operating frequency. So, to answer part of your question, your 520
already has a built in VFO. The VFO 520 is an add on unit that
you can use to increase the flexibility of the transceiver. One reason
to do so is to operate "split" frequencies. Essentially, one of the
VFO's is used to control
the transmitter frequency, and the other the receive frequency. The 520
is a fine rig. You have to learn how to load and tune it, and how to
make sure your not operating out of your allowable frequencies.
If you need help, there are many here, myself included that will be
happy to guide you. You should also review the older posts, there are
tons of useful tips there.
73
Kelly

Luke wrote:

> I am new to ham radio and I am currently working on my FCC license but
> I went ahead and got a TS-520 on ebay and I was wondering if it must
> have the VFO-520 to go with it or will it work without it? What exactly
> does a VFO do anyway? Like I said I am still learning and any
> infomation will help alot. Thanks, Luke.
>
>

[Non-text portions of this message have been removed]

11763. Re: [TS-520_820_530_830] 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 06:02:07 UTC
From: Joan de vk5kyo
Topic: 11711 Message: 11763

Hi John and Gordon

Merry Christmas and a prosperous 2007 for all.
I hope to answer your question as I have done exactly that some time ago on a TS520S and TS830S. Output with the 12V RCA tubes were around 125-135 Watts.
But for those interested, I did post a question to the group back in February, which not one person responded to (See below for old posts). I thought from a technical perspective this should have created a good discussion, but alas. I'm not an engineer, and was rather interested in what the experts in this field may have to say about it.
I think that running parallel heaters makes more sense in maintaining the characteristics of individual tubes. ie. heater resistance from one valve will not affect the other tubes performance. A simple illustration of my thought, is to put a number of 12 of 1 Ohm power resistors in series and connect it to a 12V supply. Ohms law will tell you that 1 Amp will flow. But if one is to measure the voltage across each resistor, they will most likely be all different and the heat dissapated in each resistor will be different. This is the result of tolerance. Manufacturers can build anything with a tolerance factor. The tighter the tolerance the higher the cost.
By measuring the voltage across the standard tubes in my Kenwoods, I have proven that tolerance will play a part in the tubes performance. It can not pull its weight if the heater voltage is not enough, and the other tube will be more stressed because of higher voltage, hence higher emission. Any comments this time round?
Joan VK5KYO

Feb 2006
Hi everybody

I know there has been lots of discussions in the past regarding matched pairs of 6146's for the Kenwoods and alike, and the answer may have already been posted, but I have just repaired 2 TS-830's with output power problems which left me with some questions.
During the quest to resolve the issues, I was thinking a little more on the issue of matched valves.
The owner of the radio I was repairing, send me a matched pair of 6146's and on each of the valves was a number written on it.
Can I assume this is the gain of the tube, or is it the current drawn under certain test parameters, and the fact that both numbers are the same, I will say that they are a match?
The other question I was left pondering with is when I pulled my RCA test tubes out (which happens to have 12 volt filaments), and rewired the set back to standard 6 volt operation, will it be as good?
When the experts check new tubes for so called matched characteristics,

are they applying 6volts to each filament and testing the gain of a tube individually, or are they putting a pair of tubes with their heater filaments in series (as Kenwood is wired this way), and then checking for their individual gain.
The results will be different and for those that know, can you tell me if it is significant or not.
The reason why I say it will be different is because my experience has been that the filament of each 6146 is not exactly the same resistance(call it manufacturers tolerance), and if you measure the voltage drop across each tube, it maybe 6.0 volts for one and 6.4 volts for the other. That is pretty well what I measure.
This is a bad thing because the tube with a higher resitance will also have a higher voltage drop across the heater and will therefore be more stressed.
Which begs the question whether it will be working harder than it's mate who is having a holiday.
I know the valves will still work and more than likely put out 100++ Watts, but it does sort of blow the matched pair theory.
I'd would call them truly matched if both the filaments have equal resistance and therefore hopefully the same heat value generated to promote emissions and finally they have the same gain.
If the tubes were only tested individually with 6 volts applied to the heaters, then the only way we could correct the problem, is to balance out the weaker valve with a bit of extra resistance parallel with the heater so that both 6146's will have equal heater voltage.
I hope you get the drift of what I am trying to say.
I'd appreciate your thoughts on this.
One might say that it is too much theory and that in the practical sense it wont make a scrap of difference.
It may well be the reason why there have been some premature failures, especially when one starts to mix different brands of 6146's.
Illustration time - Different manufacturers of clothing are all asked to produce a size 16 garment, and yet the final product all seem to differ a little in size.
To stay on the humurous side, my last statistic count of 5, goes to the most popular name in this group, and that is"Bill". The Bill's have it.
Because of this fact, I like to drag these wonderful gentlemen into another illustration, and say that allthough they carry the same name, all Bills are not the same, in fact they are all unique.
So how can you ever have matched pairs of 6146's??
Joan VK5KYO

Another reply I posted in May 2006
Hi Chris

The answer to your question is, YES, most certainly. The heater supply is in fact 12 volts and the original wiring puts the 6146's heaters in series. Just remove the series link, provide a earth strap for the front tube and run a new wire to supply 12 volts to the most rear tube. About 1 hour job by the time you take covers of and the circuit board and work out what your doing.

I have done this with my TS-520 and also a TS-830. They work great.
Great value for money and probably a well kept secret.
One warning though, is to put a warning on the PA cover that the heaters
are set for 12Volts. You dont want to go back there many years laters
with a nice new pair of 6146's and watch the sun go up for a few
seconds, followed by a very quick sunset and tears. Remembering then is
too late.

Here is a little extract from Glen. (you can Goggle for this article)

The 6146 Family of Tubes - by Glen E. Zook, K9STH
The 12-volt equivalent of the 6146 is the 6883, the equivalent of the
6146A is the 6883A, and the 6146B is the 6883B. Now, there are the tubes
that were manufactured for FM commercial service. These series go as
follows: 6883, 6883A / 8032, 6883B / 8032A / 8552. Again most of these
are "cross branded" with all of the tube numbers that are equivalent.

Next time Chris, or anyone else for that matter, if you can't get hold
of 6146's, don't hesitate to use the alternative at a fraction of the cost.

Joan VK5KYO

Chris Howard wrote:
Is it possible to rewire the filaments in such a way

> as to use the 12 volt filament versions of the 6146?
>
> We had a guy at a local hamfest selling the 12 volters
> for about a buck each.
>
> Chris
> w0ep
>
>

John Harp wrote:

> Well Gordon, like you I have considered that mod also. I like you I
> can mod and mod again without it bothering me. I havew chosen to put
> it off for right now since I have to many irons in the fire at the moment.
>
> I would think after rewire and neutralization the radio should work
> fine. Any difference in power should be realized by a change in
> filament power I would think. I suppose it would be nice to have the
> idea tried and the results archived for the futrure.
>
> I have begun the process of converting my station to solar by steps.
> Thus considering the possibility of trying 12 volts for solar as well
> as portable and maybe the mod for as I say archival to the future.
>
>
>

> Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:
> Has anyone swapped their 6146B tubes out for the 6883B 12 volt version ?
>
> I was thinking of trying this mod on the 830 I have here. It puts out
> about 100 watts with the 6146B's that are it it now, But it might be
> fun to try the 6883B mod. It looks pretty simple, Just wewire the Heaters.
>
> 73,
> Gordon
>
>

[Non-text portions of this message have been removed]

11764. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 05:34:08 UTC
From: Brian Hall
Topic: 1213 Message: 11764

Luke-

A VFO (variable frequency oscillator) tunes the unit to its transmit and/or receive frequency (it's connected to the big tuning dial on the front panel). An external VFO allows an operator to transmit on one frequency and receive on another...DX stations do this often to make pileups more manageable for them.

You do not need an external VFO (VFO-520) in order for your TS-520 to operate properly, however, you will need the "VFO jumper" plug installed on the rear panel in order for the unit to function properly without an external VFO connected. I have seen many TS-520's sold on eBay without the VFO jumper plug supplied (If this sounds confusing, refer to the owner's manual, which explains this in more detail).

You mentioned you are not currently licensed...Do you have an Elmer yet? If you don't know what an Elmer is, the answer is "no." An Elmer is an experienced Ham who will guide you down the proper path on matters concerning equipment, antenna installation, operating practices and courtesies, etc. If you can't find one, there are numerous resources online. Use them if needed.

Until you recieve your license, keep the stand-by switch in "REC," the htr switch "OFF," and the VOX switch in "MANual." That's triple protection against transmitting illegally.

73
Brian AC7NA

-- In TS-520_820_530_830@yahoogroups.com, "Luke" <lk_consulting@...> wrote:
>
> I am new to ham radio and I am currently working on my FCC license but
> I went ahead and got a TS-520 on ebay and I was wondering if it must
> have the VFO-520 to go with it or will it work without it? What exactly
> does a VFO do anyway? Like I said I am still learning and any
> infomation will help alot. Thanks, Luke.
>

11765. Re: [TS-520_820_530_830] TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 11:08:58 UTC
From: Another Old Codger
Topic: 1213 Message: 11765

The simple answer is No, but make sure you have the link plug in the
VFO socket, it's all in the manual.

73 Ron G8URU
----- Original Message -----
From: "Luke" <lk_consulting@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, December 27, 2006 3:58 AM
Subject: [TS-520_820_530_830] TS-520

I am new to ham radio and I am currently working on my FCC license but
I went ahead and got a TS-520 on ebay and I was wondering if it must
have the VFO-520 to go with it or will it work without it? What
exactly
does a VFO do anyway? Like I said I am still learning and any
infomation will help alot. Thanks, Luke.

11766. Re: [TS-520_820_530_830] 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 14:10:41 UTC
From: n9wb
Topic: 11711 Message: 11766

It would seem to be a good point. If the tubes for some reason had slightly filament resistances, such as if they were not of the same brand or production run, it is possible that the filament voltages will not be balanced. Parallel 12 v filaments would eliminate this problem. wouldn't it be cool if we could find a huge source of 6883Bs somewhere ?

Vy 73, Walt N9WB

----- Original Message -----
From: Joan de vk5kyo
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 27, 2006 1:02 AM
Subject: Re: [TS-520_820_530_830] 6146B / 6883B

Hi John and Gordon

Merry Christmas and a prosperous 2007 for all.
I hope to answer your question as I have done exactly that some time ago on a TS520S and TS830S. Output with the 12V RCA tubes were around 125-135 Watts.
But for those interested, I did post a question to the group back in February, which not one person responded to (See below for old posts). I thought from a technical perspective this should have created a good discussion, but alas. I'm not an engineer, and was rather interested in what the experts in this field may have to say about it.
I think that running parallel heaters makes more sense in maintaining the characteristics of individual tubes. ie. heater resistance from one valve will not affect the other tubes performance. A simple illustration of my thought, is to put a number of 12 of 1 Ohm power resistors in series and connect it to a 12V supply. Ohms law will tell you that 1 Amp will flow. But if one is to measure the voltage across each resistor, they will most likely be all different and the heat dissapated in each resistor will be different. This is the result of tolerance. Manufacturers can build anything with a tolerance factor. The tighter the tolerance the higher the cost.
By measuring the voltage across the standard tubes in my Kenwoods, I have proven that tolerance will play a part in the tubes performance. It can not pull its weight if the heater voltage is not enough, and the other tube will be more stressed because of higher voltage, hence higher emission. Any comments this time round?
Joan VK5KYO

Feb 2006
Hi everybody

I know there has been lots of discussions in the past regarding matched pairs of 6146's for the Kenwoods and alike, and the answer may have

already been posted, but I have just repaired 2 TS-830's with output power problems which left me with some questions.
During the quest to resolve the issues, I was thinking a little more on the issue of matched valves.
The owner of the radio I was repairing, send me a matched pair of 6146's and on each of the valves was a number written on it.
Can I assume this is the gain of the tube, or is it the current drawn under certain test parameters, and the fact that both numbers are the same, I will say that they are a match?
The other question I was left pondering with is when I pulled my RCA test tubes out (which happens to have 12 volt filaments), and rewired the set back to standard 6 volt operation, will it be as good?
When the experts check new tubes for so called matched characteristics, are they applying 6volts to each filament and testing the gain of a tube individually, or are they putting a pair of tubes with their heater filaments in series (as Kenwood is wired this way), and then checking for their individual gain.
The results will be different and for those that know, can you tell me if it is significant or not.
The reason why I say it will be different is because my experience has been that the filament of each 6146 is not exactly the same resistance(call it manufacturers tolerance), and if you measure the voltage drop across each tube, it maybe 6.0 volts for one and 6.4 volts for the other. That is pretty well what I measure.
This is a bad thing because the tube with a higher resitance will also have a higher voltage drop across the heater and will therefore be more stressed.
Which begs the question whether it will be working harder than it's mate who is having a holiday.
I know the valves will still work and more than likely put out 100++ Watts, but it does sort of blow the matched pair theory.
I'd would call them truly matched if both the filaments have equal resistance and therefore hopefully the same heat value generated to promote emissions and finally they have the same gain.
If the tubes were only tested individually with 6 volts applied to the heaters, then the only way we could correct the problem, is to balance out the weaker valve with a bit of extra resistance parallel with the heater so that both 6146's will have equal heater voltage.
I hope you get the drift of what I am trying to say.
I'd appreciate your thoughts on this.
One might say that it is too much theory and that in the practical sense it wont make a scrap of difference.
It may well be the reason why there have been some premature failures, especially when one starts to mix different brands of 6146's.
Illustration time - Different manufacturers of clothing are all asked to produce a size 16 garment, and yet the final product all seem to differ a little in size.
To stay on the humurous side, my last statistic count of 5, goes to the most popular name in this group, and that is"Bill". The Bill's have it.
Because of this fact, I like to drag these wonderful gentlemen into

another illustration, and say that allthough they carry the same name,
all Bills are not the same, in fact they are all unique.
So how can you ever have matched pairs of 6146's??
Joan VK5KYO

Another reply I posted in May 2006
Hi Chris

The answer to your question is, YES, most certainly. The heater supply
is in fact 12 volts and the original wiring puts the 6146's heaters in
series. Just remove the series link, provide a earth strap for the front
tube and run a new wire to supply 12 volts to the most rear tube. About
1 hour job by the time you take covers of and the circuit board and work
out what your doing.
I have done this with my TS-520 and also a TS-830. They work great.
Great value for money and probably a well kept secret.
One warning though, is to put a warning on the PA cover that the heaters
are set for 12Volts. You dont want to go back there many years laters
with a nice new pair of 6146's and watch the sun go up for a few
seconds, followed by a very quick sunset and tears. Remembering then is
too late.

Here is a little extract from Glen. (you can Goggle for this article)

The 6146 Family of Tubes - by Glen E. Zook, K9STH
The 12-volt equivalent of the 6146 is the 6883, the equivalent of the
6146A is the 6883A, and the 6146B is the 6883B. Now, there are the tubes
that were manufactured for FM commercial service. These series go as
follows: 6883, 6883A / 8032, 6883B / 8032A / 8552. Again most of these
are "cross branded" with all of the tube numbers that are equivalent.

Next time Chris, or anyone else for that matter, if you can't get hold
of 6146's, don't hesitate to use the alternative at a fraction of the cost.

Joan VK5KYO

Chris Howard wrote:
Is it possible to rewire the filaments in such a way

> as to use the 12 volt filament versions of the 6146?
>
> We had a guy at a local hamfest selling the 12 volters
> for about a buck each.
>
> Chris
> w0ep
>
>

John Harp wrote:

> Well Gordon, like you I have considered that mod also. I like you I
> can mod and mod again without it bothering me. I havew chosen to put

> it off for right now since I have to many irons in the fire at the moment.
>
> I would think after rewire and neutralization the radio should work
> fine. Any difference in power should be realized by a change in
> filament power I would think. I suppose it would be nice to have the
> idea tried and the results archived for the futrure.
>
> I have begun the process of converting my station to solar by steps.
> Thus considering the possibility of trying 12 volts for solar as well
> as portable and maybe the mod for as I say archival to the future.
>
>
>
> Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:
> Has anyone swapped their 6146B tubes out for the 6883B 12 volt version ?
>
> I was thinking of trying this mod on the 830 I have here. It puts out
> about 100 watts with the 6146B's that are it it now, But it might be
> fun to try the 6883B mod. It looks pretty simple, Just wewire the Heaters.
>
> 73,
> Gordon
>
>

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.28/604 - Release Date: 12/26/06

[Non-text portions of this message have been removed]

11767. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 16:29:01 UTC
From: Ellen R
Topic: 11711 Message: 11767

Hi Dennis,

Mine are a set of Milspec JAN tubes that are made by ECG-Philips (in other words, Sylvania). Here's the URL for the description. They are the ones above the GE 6146Ws:

http://www.rfparts.com/6146w.html#w

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Dennis Windle" <windled@...> wrote:
>
> Ellen, are the JAN 6146W's you installed in your 820 made by GE or some other Mfg ?
>
> Thanks
> D.Windle
> ----- Original Message -----
> From: Ellen R
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Tuesday, December 26, 2006 1:13 PM
> Subject: [TS-520_820_530_830] Re: 6146B / 6883B
>
>
> I have a set of JAN 6146Ws in my TS-820. They're fine. They
> neutralized very well for me, and I get about 110 to 130W out with
> them.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "Yves Remedios" <remedya-
> list-yahoo@> wrote:
> >
> > --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> > >
> > > Has anyone swapped their 6146B tubes out for the
> > > 6883B 12 volt version ?
> >
> > I have bought 6883B valves on the grounds that this should work but

> I
> > have not yet had reason to install the valves.
> >
> > The story going round is that there is a huge supply of 6883B
valves
> > in the USA so they should be cheap to obtain as 6146B
substitutes.
> > However, the 6883B valves that have appeared on eBay in the
last
> three
> > months have been offered at similar prices to the 6146B so in
these
> > circumstances I would rather use the 6146B.
> >
> > In the last month I have seen a USA eBay seller offering a case
of
> GE
> > 6146W JAN (datestamped 1987) at $24.95/pair. I have never used
the
> W
> > variant but I would have thought its not worth considering
6883B at
> > this moment in time.
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11768. Re: HAPPY HOLIDAYS WITH YOUR TS-830

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 16:33:13 UTC
From: Ellen R
Topic: 11744 Message: 11768

Hi Walt,

If you want to, I'll be happy to make a sked with you. Send me an e-mail, and we'll set up a time and a freq.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Walter Milton" <wmilton@...> wrote:
>
> Hi Ellen,
>
> I wish that I saw your email earlier I would have like to try and make
> contact with you. I was out with the Grandkid and just returned home. I
> will keep looking and maybe we will get the opportunity sometime this week.
>
>
> Walt., KA2NJF
> Psalm 1
> A child of the Living God
>
>
> _____
>
> From: TS-520_820_530_830@yahoogroups.com
> [mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Ellen R
> Sent: Tuesday, December 26, 2006 1:26 PM
> To: TS-520_820_530_830@yahoogroups.com
> Subject: [TS-520_820_530_830] Re: HAPPY HOLIDAYS WITH YOUR TS-830
>
>
>
> Hi Walter,
>
> I have off today, and after I'm done running some errands, I intend
> to fire up Ms. TS-820.
>
> 73 & Happy Holidays to all,
> Ellen - AF9J
>
> --- In TS-520_820_530_ <mailto:TS-520_820_530_830%40yahoogroups.com>
> 830@yahoogroups.com, "Walter Milton"

> <wmilton@> wrote:
> >
> > All,
> >
> > Merry Christmas to you and yours this time of the year. May you
> enjoy your
> > vintage Kenwood if you have the time off.
> >
> > From the Milton family
> > Walt. , KA2NJF
> > Psalm 1
> > A child of the Living God
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

11769. Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 16:47:48 UTC
From: Ellen R
Topic: 11759 Message: 11769

I tell you, some people have all the luck! LOL I know a ham, who recently got a TS-520SE in great shape for a $100! Where can I sign up for cool deals like you and him got. Sigh!!

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Jeff May" <W0XV@...> wrote:
>
> Acquired a TS520S brand new in the box with original 1978 sales receipt...never used ...29 years old...works perfectly with wonderful audio transmit and receive...quite a testimony to a 29 year old never used radio...Jeff...W0XV
>
> [Non-text portions of this message have been removed]
>

11770. TS-520 SE Mode Switch and S Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 17:12:32 UTC
From: baumbrent
Topic: 11770 Message: 11770

I discovered two new problems with my 520SE over the holiday break.

1. The S meter will only run up to S 2.5, even on a signal that is rattling the windows. I suppose it needs to be adjusted. Is there a way to do so without using a signal generator? (It's a 50 mile one way trip to the big city to find someone who has one.) I need to get the S meter working so I can bring the 10 meter section into oscillation and peak the rest of the bands.

2. The audio output drops to about half volume after warm up, or if the radio gets bumped. Sometimes I can cycle the Mode switch and bring it back for a while, but it soon drops out again. Something is probably loose and/or reacting thermally. Any ideas before I begin chasing electrons through the schematics?

By the way I had a quick QSO from Northern Utah with N5PYJ in Texas at about 1600 MST yesterday. He was running an 830S at about 85 watts. Arm chair copy through the QRN.

Thanks all, and happy new year.
K7MEI, Brent

11771. TS-830s WANTED: Parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 18:08:20 UTC
From: Rich
Topic: 11771 Message: 11771

HAMs,

+ Looking for a VOX Delay Control Knob, similier to VOX Gain, NB Level, and Comp Level Control Knobs.

- Would be willing to pay a rea$onable price for a Parts Radio.

+ How can I stabilize the 'Drifty' VFO? Sometimes Cool for DX, but annoying for Rag Chew.

- Looking to "Re-Commision" this rig by Feb. '07. Looks good into the Dummy Load. Want to check the allignments and get some spare glass for the finals. Serial 2060330

73's De Rich, N2NMH

http://www.Norfolk-ARES.org/

11772. Re: [TS-520_820_530_830] Re: How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 17:20:52 UTC
From: David King
Topic: 11633 Message: 11772

What about utilizing some of the automatic antenna tuners with a 520S?

I've been looking at the MFJ-993B Intellituner based on the experiences
of one of
our local hams who has fallen in love with it. He does a lot of
contesting and experiments
with a variety of modes...and I've been contemplating it as an addition
to the shack.

I'm a tech...but had passed the written for General in November and was
working on my
code when the FCC announcement came out. I have a 520S and have been
slowly getting it
ready to go live in Feb or later...in fact I spent Christmas Day digging
the tower footing and pouring
some concrete...

I've been working on this process for the past three months to keep the
xyl from
screaming over my dumping large amounts of cash all at once...so it's a
process and the tuner
is a "down-the-road" item...not something I was expecting to do right away.

ke7eka

w5rkl wrote:

> Retuning depends how far, one way or the other, you move from the
> resonante frequency. For example, if you move up 25Khz from the
> resonate frequency, I would touch up the tuning. However, if you
> move just a few Khz, I see no need to adjust the tuning.
>
> If you are using a tuner, look at the tuner's SWR setting for an
> increase in SWR. For example, a slight increase from 1.1 to say,
> 1.3 to 1, does not warrant an adjustment in the tuner. Most modern
> solid state rigs with built-in tuners will follow the frequency change
> and automatically adjust accordingly. Most vintage as well as modern
> day transmitters/transceivers can tolerate an SWR from 2.1 to 1 and
> lower. Of course the SWR circuitry in modern transceivers will
> lower the output power as the SWR increases. Having said that,
> an increase from 1.1 to 1.3 to 1 SWR will not change the power output
> significantly. I'm sure the receiving end would not even notice it.
>
> I am not saying an SWR of 2.1 to 1 is an acceptable level; not at all.
> I'm simply repeating what you will read in the manual. If the SWR
> is 2.1 to 1, that warrants touching up on the tuner as well as the

> transmitter. Modern all solid state rigs don't require touch up
> tuning; only a tuner if the tuner is seperate from the transmitter.
>
> 73's
> Mike
> W5RKL
>
> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "Doug" <dsib432@...> wrote:
> >
> > Hello,
> > I am new the the world of tubes. I understand the tune up procedure
> > and have that down on my TS-820S. My question is if I tune up in
> one
> > part of the band and change freq. in the same band, how far can I go
> > before I should check everything and be sure it is adjusted
> correctly
> > for the new freq? Had a solid state rig that went bad and with all
> > the holiday costs, didn't have much extra cash to get another solid
> > state rig. At first I thought it was going to be a pain, but I have
> > to admit, it is kinda fun to have dials to mess with.
> >
>
>

[Non-text portions of this message have been removed]

11773. Re: [TS-520_820_530_830] Re: How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 18:39:21 UTC
From: BRENT BAUM
Topic: 11633 Message: 11773

The MFJ unit will probably work great for tuning your antenna system(s).
However, for internal tuning of the tubes one must manually twiddle the
knobs as previously discussed.
73 de K7MEI, Brent

>From: David King <dking@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: How often to tune?
>Date: Wed, 27 Dec 2006 10:20:52 -0700
>
>What about utilizing some of the automatic antenna tuners with a 520S?
>
>I've been looking at the MFJ-993B Intellituner based on the experiences
>of one of
>our local hams who has fallen in love with it. He does a lot of
>contesting and experiments
>with a variety of modes...and I've been contemplating it as an addition
>to the shack.
>
>I'm a tech...but had passed the written for General in November and was
>working on my
>code when the FCC announcement came out. I have a 520S and have been
>slowly getting it
>ready to go live in Feb or later...in fact I spent Christmas Day digging
>the tower footing and pouring
>some concrete...
>
>I've been working on this process for the past three months to keep the
>xyl from
>screaming over my dumping large amounts of cash all at once...so it's a
>process and the tuner
>is a "down-the-road" item...not something I was expecting to do right away.
>
>ke7eka
>
>w5rkl wrote:
>
> > Retuning depends how far, one way or the other, you move from the
> > resonante frequency. For example, if you move up 25Khz from the
> > resonate frequency, I would touch up the tuning. However, if you
> > move just a few Khz, I see no need to adjust the tuning.
> >
> > If you are using a tuner, look at the tuner's SWR setting for an
> > increase in SWR. For example, a slight increase from 1.1 to say,

> > 1.3 to 1, does not warrant an adjustment in the tuner. Most modern
> > solid state rigs with built-in tuners will follow the frequency change
> > and automatically adjust accordingly. Most vintage as well as modern
> > day transmitters/transceivers can tolerate an SWR from 2.1 to 1 and
> > lower. Of course the SWR circuitry in modern transceivers will
> > lower the output power as the SWR increases. Having said that,
> > an increase from 1.1 to 1.3 to 1 SWR will not change the power output
> > significantly. I'm sure the receiving end would not even notice it.
> >
> > I am not saying an SWR of 2.1 to 1 is an acceptable level; not at all.
> > I'm simply repeating what you will read in the manual. If the SWR
> > is 2.1 to 1, that warrants touching up on the tuner as well as the
> > transmitter. Modern all solid state rigs don't require touch up
> > tuning; only a tuner if the tuner is seperate from the transmitter.
> >
> > 73's
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Doug" <dsib432@...>
>wrote:
> > >
> > > Hello,
> > > I am new the the world of tubes. I understand the tune up procedure
> > > and have that down on my TS-820S. My question is if I tune up in
> > one
> > > part of the band and change freq. in the same band, how far can I go
> > > before I should check everything and be sure it is adjusted
> > correctly
> > > for the new freq? Had a solid state rig that went bad and with all
> > > the holiday costs, didn't have much extra cash to get another solid
> > > state rig. At first I thought it was going to be a pain, but I have
> > > to admit, it is kinda fun to have dials to mess with.
> > >
> >
> >
>
>
>
>[Non-text portions of this message have been removed]
>

11774. Re: [TS-520_820_530_830] Re: How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 19:40:27 UTC
From: Graham Ridgeway
Topic: 11633 Message: 11774

On Wed, 27 Dec 2006 10:20:52 -0700, David King <dking@...> wrote:

>What about utilizing some of the automatic antenna tuners with a 520S?
>
>I've been looking at the MFJ-993B Intellituner based on the experiences
>of one of
>our local hams who has fallen in love with it. He does a lot of
>contesting and experiments
>with a variety of modes...and I've been contemplating it as an addition
>to the shack.

Autotuners are very nice - I use a MAC200 and an SG239 here. However,
what you have to remember is that the tuner only works on the aerial.

You use them to get some power into that bit of wet string, but the
rig itself still has to see a good 50 ohms - and they do not autotune
on the input circuit.
Consequently if you tune the rig up on say, 14.335, into a dummy load
and then swicth to the tuner, it will be quite happy. The rig is on
song and the tuner worries about the mismatch on the aerial.
Now swing down to 14.195 - the tuner will do it's stuff on the aerial
but the rig in truth needs 'touching up', and you could be running in
excess of 2:1 on the input without even knowing.

Both my 520 and 530 go well 'off song' if I tune up from 14.070/14.080
to say 14.195

73 Graham M5AAV

11775. Re: [TS-520_820_530_830] TS-830s WANTED: Parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 19:54:45 UTC
From: N6WK
Topic: 11771 Message: 11775

Rich, I would check the 9 volt and the 3.6 volt adjustments if the VFO
is drifting for starters. They MUST be right on spec.

Gordon
N6WK

Rich wrote:

> HAMs,
>
> + Looking for a VOX Delay Control Knob, similier to VOX Gain, NB
> Level, and Comp Level Control Knobs.
>
> - Would be willing to pay a rea$onable price for a Parts Radio.
>
> + How can I stabilize the 'Drifty' VFO? Sometimes Cool for DX, but
> annoying for Rag Chew.
>
> - Looking to "Re-Commision" this rig by Feb. '07. Looks good into
> the Dummy Load. Want to check the allignments and get some spare glass
> for the finals. Serial 2060330
>
> 73's De Rich, N2NMH
>
> http://www.Norfolk-ARES.org/ <http://www.Norfolk-ARES.org/>
>
>

[Non-text portions of this message have been removed]

11776. Where could I find main capacitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 20:22:43 UTC
From: René Santos
Topic: 11776 Message: 11776

Hi, 73 for all members. I need your help. Where could I find the main electrolitic capacitors for the TS-830S; the part number is C22, C24 C90-0327-05, 100mF 500V. Thanks in advance for your help and Happy New Year.

Rene Santos
HC2SA

11777. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 21:56:22 UTC
From: Luke
Topic: 1213 Message: 11777

Brian AC7NA

I do know what an Elmer is but i live out in Northwest Oklahoma and do not know of any Ham Operators out here and the colsest club is in Enid, Oklahoma that I know of and that in 96 miles away. So anyone willing to give me a hand or offer advice is always useful here. And again that you all for all the help on understanding the VFO. I am sure there will be many more questions once I get going more. Thanks, Luke.

--- In TS-520_820_530_830@yahoogroups.com, "Brian Hall" <bnhall_2000@...> wrote:
>
> Luke-
>
> A VFO (variable frequency oscillator) tunes the unit to its transmit
> and/or receive frequency (it's connected to the big tuning dial on
> the front panel). An external VFO allows an operator to transmit on
> one frequency and receive on another...DX stations do this often to
> make pileups more manageable for them.
>
> You do not need an external VFO (VFO-520) in order for your TS-520 to
> operate properly, however, you will need the "VFO jumper" plug
> installed on the rear panel in order for the unit to function
> properly without an external VFO connected. I have seen many TS-
> 520's sold on eBay without the VFO jumper plug supplied (If this
> sounds confusing, refer to the owner's manual, which explains this in
> more detail).
>
> You mentioned you are not currently licensed...Do you have an Elmer
> yet? If you don't know what an Elmer is, the answer is "no." An
> Elmer is an experienced Ham who will guide you down the proper path
> on matters concerning equipment, antenna installation, operating
> practices and courtesies, etc. If you can't find one, there are
> numerous resources online. Use them if needed.
>
> Until you recieve your license, keep the stand-by switch in "REC,"
> the htr switch "OFF," and the VOX switch in "MANual." That's triple
> protection against transmitting illegally.
>
> 73

> Brian AC7NA
>
> -- In TS-520_820_530_830@yahoogroups.com, "Luke" <lk_consulting@>
> wrote:
> >
> > I am new to ham radio and I am currently working on my FCC
license
> but
> > I went ahead and got a TS-520 on ebay and I was wondering if it
> must
> > have the VFO-520 to go with it or will it work without it? What
> exactly
> > does a VFO do anyway? Like I said I am still learning and any
> > infomation will help alot. Thanks, Luke.
> >
>

11778. TS830 and accessories for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-27 23:27:38 UTC
From: ve3tmt
Topic: 11778 Message: 11778

Selling my TS830S with matching VFO230, AT230 and SP230. Rig has 500 Hz CW filter and 3 Khz SSB filter installed. Full output with spare driver/final tubes included. Pictures in the photo section under my call. Excellent condition on everything. Sell complete station for $900. My interests have changed.

Max
VE3TMT

Interested parties please e-mail me direct.

11779. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 00:17:59 UTC
From: Gordon
Topic: 11711 Message: 11779

Hi Joan,
Sorry If I missed your earlier Post. Perhaps I was not even a member
of this group at that time.
I also agree that the Different Heater characteristics would affect
each tube separately and therefore longivity of both tubes.
I have just placed a bid on some NOS 6883B's and as soon as I
(hopefully) win the auction, I am going to place them in the 830 I
have here, do the Mod, and see what I end up with.
I can only see benefits from my point of view and I will Mark the
Final Cage with a Notice that the rig has 6883B's installed instead of
6146B's. Looks pretty Simple to do. I'm excited to try it out!

Gordon
N6WK

--- In TS-520_820_530_830@...m, Joan de vk5kyo <VK5KYO@...>
wrote:
>
> Hi John and Gordon
>
> Merry Christmas and a prosperous 2007 for all.
> I hope to answer your question as I have done exactly that some time
ago
> on a TS520S and TS830S. Output with the 12V RCA tubes were around
> 125-135 Watts.
> But for those interested, I did post a question to the group back in
> February, which not one person responded to (See below for old posts).
> I thought from a technical perspective this should have created a good
> discussion, but alas. I'm not an engineer, and was rather interested in
> what the experts in this field may have to say about it.
> I think that running parallel heaters makes more sense in maintaining
> the characteristics of individual tubes. ie. heater resistance from one
> valve will not affect the other tubes performance. A simple
illustration
> of my thought, is to put a number of 12 of 1 Ohm power resistors in
> series and connect it to a 12V supply. Ohms law will tell you that 1
Amp
> will flow. But if one is to measure the voltage across each resistor,
> they will most likely be all different and the heat dissapated in each
> resistor will be different. This is the result of tolerance.
> Manufacturers can build anything with a tolerance factor. The tighter
> the tolerance the higher the cost.
> By measuring the voltage across the standard tubes in my Kenwoods, I
> have proven that tolerance will play a part in the tubes
performance. It

> can not pull its weight if the heater voltage is not enough, and the
> other tube will be more stressed because of higher voltage, hence
higher
> emission. Any comments this time round?
> Joan VK5KYO
>
> Feb 2006
> Hi everybody
>
> I know there has been lots of discussions in the past regarding matched
> pairs of 6146's for the Kenwoods and alike, and the answer may have
> already been posted, but I have just repaired 2 TS-830's with output
> power problems which left me with some questions.
> During the quest to resolve the issues, I was thinking a little more on
> the issue of matched valves.
> The owner of the radio I was repairing, send me a matched pair of
6146's
> and on each of the valves was a number written on it.
> Can I assume this is the gain of the tube, or is it the current drawn
> under certain test parameters, and the fact that both numbers are the
> same, I will say that they are a match?
> The other question I was left pondering with is when I pulled my RCA
> test tubes out (which happens to have 12 volt filaments), and rewired
> the set back to standard 6 volt operation, will it be as good?
> When the experts check new tubes for so called matched
characteristics,
> are they applying 6volts to each filament and testing the gain of a
tube
> individually, or are they putting a pair of tubes with their heater
> filaments in series (as Kenwood is wired this way), and then checking
> for their individual gain.
> The results will be different and for those that know, can you tell me
> if it is significant or not.
> The reason why I say it will be different is because my experience has
> been that the filament of each 6146 is not exactly the same
> resistance(call it manufacturers tolerance), and if you measure the
> voltage drop across each tube, it maybe 6.0 volts for one and 6.4 volts
> for the other. That is pretty well what I measure.
> This is a bad thing because the tube with a higher resitance will also
> have a higher voltage drop across the heater and will therefore be more
> stressed.
> Which begs the question whether it will be working harder than it's
> mate who is having a holiday.
> I know the valves will still work and more than likely put out 100++
> Watts, but it does sort of blow the matched pair theory.
> I'd would call them truly matched if both the filaments have equal
> resistance and therefore hopefully the same heat value generated to
> promote emissions and finally they have the same gain.
> If the tubes were only tested individually with 6 volts applied to the
> heaters, then the only way we could correct the problem, is to balance

> out the weaker valve with a bit of extra resistance parallel with the
> heater so that both 6146's will have equal heater voltage.
> I hope you get the drift of what I am trying to say.
> I'd appreciate your thoughts on this.
> One might say that it is too much theory and that in the practical
sense
> it wont make a scrap of difference.
> It may well be the reason why there have been some premature failures,
> especially when one starts to mix different brands of 6146's.
> Illustration time - Different manufacturers of clothing are all
asked to
> produce a size 16 garment, and yet the final product all seem to differ
> a little in size.
> To stay on the humurous side, my last statistic count of 5, goes to the
> most popular name in this group, and that is"Bill". The Bill's have it.
> Because of this fact, I like to drag these wonderful gentlemen into
> another illustration, and say that allthough they carry the same name,
> all Bills are not the same, in fact they are all unique.
> So how can you ever have matched pairs of 6146's??
> Joan VK5KYO
>
>
> Another reply I posted in May 2006
> Hi Chris
>
> The answer to your question is, YES, most certainly. The heater supply
> is in fact 12 volts and the original wiring puts the 6146's heaters in
> series. Just remove the series link, provide a earth strap for the
front
> tube and run a new wire to supply 12 volts to the most rear tube. About
> 1 hour job by the time you take covers of and the circuit board and
work
> out what your doing.
> I have done this with my TS-520 and also a TS-830. They work great.
> Great value for money and probably a well kept secret.
> One warning though, is to put a warning on the PA cover that the
heaters
> are set for 12Volts. You dont want to go back there many years laters
> with a nice new pair of 6146's and watch the sun go up for a few
> seconds, followed by a very quick sunset and tears. Remembering then is
> too late.
>
> Here is a little extract from Glen. (you can Goggle for this article)
>
> The 6146 Family of Tubes - by Glen E. Zook, K9STH
> The 12-volt equivalent of the 6146 is the 6883, the equivalent of the
> 6146A is the 6883A, and the 6146B is the 6883B. Now, there are the
tubes
> that were manufactured for FM commercial service. These series go as
> follows: 6883, 6883A / 8032, 6883B / 8032A / 8552. Again most of these

> are "cross branded" with all of the tube numbers that are equivalent.
>
> Next time Chris, or anyone else for that matter, if you can't get hold
> of 6146's, don't hesitate to use the alternative at a fraction of
the cost.
>
> Joan VK5KYO
>
>
>
> Chris Howard wrote:
> Is it possible to rewire the filaments in such a way
>
> > as to use the 12 volt filament versions of the 6146?
> >
> > We had a guy at a local hamfest selling the 12 volters
> > for about a buck each.
> >
> > Chris
> > w0ep
> >
> >
>
>
>
>
>
>
> John Harp wrote:
>
> > Well Gordon, like you I have considered that mod also. I like you I
> > can mod and mod again without it bothering me. I havew chosen to put
> > it off for right now since I have to many irons in the fire at the
moment.
> >
> > I would think after rewire and neutralization the radio should work
> > fine. Any difference in power should be realized by a change in
> > filament power I would think. I suppose it would be nice to have the
> > idea tried and the results archived for the futrure.
> >
> > I have begun the process of converting my station to solar by steps.
> > Thus considering the possibility of trying 12 volts for solar as well
> > as portable and maybe the mod for as I say archival to the future.
> >
> >
> >
> > Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:
> > Has anyone swapped their 6146B tubes out for the 6883B 12 volt
version ?
> >

> > I was thinking of trying this mod on the 830 I have here. It puts out
> > about 100 watts with the 6146B's that are it it now, But it might be
> > fun to try the 6883B mod. It looks pretty simple, Just wewire the
Heaters.
> >
> > 73,
> > Gordon
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

11780. Re: TS-520 SE Mode Switch and S Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 00:27:10 UTC
From: Gordon
Topic: 11770 Message: 11780

I am suspecting either a Dirty Band switch or a poor connection on one of the boards. It also could be a dirty relay, but not too common of a problem. If it is the relay, it's best cleaned carefully with a business card or dollar bill soaked with De-Oxit that is placed and rubbed between the contacts. I would suggest buying some De-Oxit and spraying all the controls and Band switches.Work each control and switch through it's motion right after spraying. Be sure to do this with the rdio OFF !
I remove each connector (One at a Time), spray them, reconnect and then move on to the next connector. Usually about 90% of problems can be solved this way. I swear that NOTHING seems to work as good as De-Oxit 5 for cleaning controls, switches and contacts IMHO.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent" <brentbaum5323@...> wrote:
>
> I discovered two new problems with my 520SE over the holiday break.
>
> 1. The S meter will only run up to S 2.5, even on a signal that is
> rattling the windows. I suppose it needs to be adjusted. Is there a
> way to do so without using a signal generator? (It's a 50 mile one way
> trip to the big city to find someone who has one.) I need to get the S
> meter working so I can bring the 10 meter section into oscillation and
> peak the rest of the bands.
>
> 2. The audio output drops to about half volume after warm up, or if
> the radio gets bumped. Sometimes I can cycle the Mode switch and bring
> it back for a while, but it soon drops out again. Something is
> probably loose and/or reacting thermally. Any ideas before I begin
> chasing electrons through the schematics?
>
> By the way I had a quick QSO from Northern Utah with N5PYJ in Texas at
> about 1600 MST yesterday. He was running an 830S at about 85 watts.
> Arm chair copy through the QRN.
>
> Thanks all, and happy new year.
> K7MEI, Brent
>

11781. Re: TS830 and accessories for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 00:28:28 UTC
From: Gordon
Topic: 11778 Message: 11781

Max,
What are your NEW interests ??

Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "ve3tmt" <ve3tmt@...> wrote:
>
> Selling my TS830S with matching VFO230, AT230 and SP230. Rig has 500
> Hz CW filter and 3 Khz SSB filter installed. Full output with spare
> driver/final tubes included. Pictures in the photo section under my
> call. Excellent condition on everything. Sell complete station for
> $900. My interests have changed.
>
> Max
> VE3TMT
>
> Interested parties please e-mail me direct.
>

11782. Re: [TS-520_820_530_830] Where could I find main capacitors

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 00:57:15 UTC
From: Kevin & Natalia
Topic: 11776 Message: 11782

Hi Rene,

Just had the same problem as you, regarding C22 and C24, the main filter caps for the HV line.
You will find it hard finding replacement caps of the size and value for these, however all is not lost.
In my case, I purchased 2x 100uF/450v, which were smaller in diameter then the originals. I made a perf-board to mount and solder the new caps, .01 cap, and bleed resistor (all new). This has worked out okay, but they are right on the upper limit for the voltage.

I have since found through RS Components, that they have a 150uF/500v, that is very close to the same size. And from this group, they have indicated that 150uF would be acceptable as a replacement.
Don't know if there is a local store in your location, but I am sure you can check it out. You can have a look at this web-page http://www.rsnewzealand.com/cgi-bin/bv/rswww/searchBrowseAction.do?D=150uf&Nr=AND%28avl%3anz%2csearchDiscon_nz%3aN%29&Ntk=I18NAll&Nty=1&Ntt=150uf&Dx=mode%20matchpartial&Ntx=mode%20matchpartial&N=0&name=SiteStandard&forwardingPage=line&R=3819425&callingPage=/jsp/search/search.jsp&BV_SessionID=@@@@0570762729.1167267143@@@@&BV_EngineID=cccdaddjjemmkmecefeceeldgkidhgm.0&cacheID=nznetscape

You might need to copy and paste if the link does not work. Else type in 150uf in the search box, and go down about 1/2 way down on the first (1st) page, look for Capacitor, aluminium electrolytic, long life, screw terminal, ALS30, 500Vdc, 150uF

Hope this helps?

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: René Santos
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 28, 2006 9:22 AM
Subject: [TS-520_820_530_830] Where could I find main capacitors

Hi, 73 for all members. I need your help. Where could I find the main
electrolitic capacitors for the TS-830S; the part number is C22, C24
C90-0327-05, 100mF 500V. Thanks in advance for your help and Happy New
Year.

Rene Santos
HC2SA

[Non-text portions of this message have been removed]

11783. Re: [TS-520_820_530_830] Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 00:05:54 UTC
From: tom@galesvillefiredepartment.org
Topic: 11759 Message: 11783

I confess, it was I that found the 520SE for $100. I've been lurking
for a few days now.

--

73
Tom
KC9ECI
SKCC 1
http://groups.yahoo.com/group/skcc/
ECI-QRP 028
NAQCC 500
SMIRK 6678

Antiquis temporibus, nati tibi similes in rupibus ventosissimis exponebantur ad necem.

11784. Re: [TS-520_820_530_830] Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 02:56:42 UTC
From: N6WK
Topic: 11759 Message: 11784

Welcome to the Group Tom !

73,
Gordon

tom@... wrote:

> I confess, it was I that found the 520SE for $100. I've been lurking
> for a few days now.
>
> --
>
> 73
> Tom
> KC9ECI
> SKCC 1
> http://groups.yahoo.com/group/skcc/ <http://groups.yahoo.com/group/skcc/>
> ECI-QRP 028
> NAQCC 500
> SMIRK 6678
>
> Antiquis temporibus, nati tibi similes in rupibus ventosissimis
> exponebantur ad necem.
>
>

[Non-text portions of this message have been removed]

11785. Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 04:11:53 UTC
From: boat.anchor
Topic: 11759 Message: 11785

In the spirit of good finds I went to a local hamfest a month ago and picked up a TS-520 and SP-520 for CDN75.00 I have to admit it isn't pristine and is just the plain Jane verion, not the Special Edition (SE).
regards
Barry
VA7GEM

> tom@... wrote:
>
> > I confess, it was I that found the 520SE for $100. I've been lurking
> > for a few days now.
> >
> > --
> >
> > 73
> > Tom
> > KC9ECI

11786. Re: [TS-520_820_530_830] Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 04:33:53 UTC
From: Peter A Markavage
Topic: 11759 Message: 11786

Nice find. I wish I can find things like that. Well, at least my 830S
Dymo labeled "Bossman" was very reasonably priced, given its condition.

Pete, wa2cwa
ManualMan Notice: Now through 12/31/06, use Coupon # 803815, and save $3
off every on line order at the http://www.manualman.com web site. Minimum
order is $10. With every order you'll also receive a $3 coupon good
throughout 2007. Use it as many times as you like.

On Wed, 27 Dec 2006 18:05:54 -0600 "tom@..."
<tom@...> writes:
> I confess, it was I that found the 520SE for $100. I've been lurking
>
> for a few days now.
>
> --
>
> 73
> Tom
> KC9ECI
> SKCC 1
> http://groups.yahoo.com/group/skcc/
> ECI-QRP 028
> NAQCC 500
> SMIRK 6678

11787. Re: TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 04:43:06 UTC
From: Brian Hall
Topic: 1213 Message: 11787

Luke-

Drop me a line at bnhall@... and we can start some dialog if
you like...Write "Elmer" in the subject line so I won't mistake it
for junk mail.

73

Brian
AC7NA

--- In TS-520_820_530_830@yahoogroups.com, "Luke" <lk_consulting@...>
wrote:
>
> Brian AC7NA
>
> I do know what an Elmer is but i live out in Northwest Oklahoma and
> do not know of any Ham Operators out here and the colsest club is
in
> Enid, Oklahoma that I know of and that in 96 miles away. So anyone
> willing to give me a hand or offer advice is always useful here.
And
> again that you all for all the help on understanding the VFO. I am
> sure there will be many more questions once I get going more.
Thanks,
> Luke.
>
>
> --- In TS-520_820_530_830@yahoogroups.com, "Brian Hall"
> <bnhall_2000@> wrote:
> >
> > Luke-
> >
> > A VFO (variable frequency oscillator) tunes the unit to its
> transmit
> > and/or receive frequency (it's connected to the big tuning dial
on
> > the front panel). An external VFO allows an operator to transmit
> on
> > one frequency and receive on another...DX stations do this often
to
> > make pileups more manageable for them.
> >
> > You do not need an external VFO (VFO-520) in order for your TS-
520
> to

> > operate properly, however, you will need the "VFO jumper" plug
> > installed on the rear panel in order for the unit to function
> > properly without an external VFO connected. I have seen many TS-
> > 520's sold on eBay without the VFO jumper plug supplied (If this
> > sounds confusing, refer to the owner's manual, which explains
this
> in
> > more detail).
> >
> > You mentioned you are not currently licensed...Do you have an
Elmer
> > yet? If you don't know what an Elmer is, the answer is "no." An
> > Elmer is an experienced Ham who will guide you down the proper
path
> > on matters concerning equipment, antenna installation, operating
> > practices and courtesies, etc. If you can't find one, there are
> > numerous resources online. Use them if needed.
> >
> > Until you recieve your license, keep the stand-by switch
in "REC,"
> > the htr switch "OFF," and the VOX switch in "MANual." That's
triple
> > protection against transmitting illegally.
> >
> > 73
> > Brian AC7NA
> >
> > -- In TS-520_820_530_830@yahoogroups.com, "Luke" <lk_consulting@>
> > wrote:
> > >
> > > I am new to ham radio and I am currently working on my FCC
> license
> > but
> > > > I went ahead and got a TS-520 on ebay and I was wondering if it
> > must
> > > > have the VFO-520 to go with it or will it work without it? What
> > exactly
> > > > does a VFO do anyway? Like I said I am still learning and any
> > > > infomation will help alot. Thanks, Luke.
> > >
> >
> >

11788. RE: [TS-520_820_530_830] Re: TS-520 SE Mode Switch and S Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 05:36:37 UTC
From: Ron Hauser
Topic: 11770 Message: 11788

Hi Brent... To follow up on Gordon's comments. I have just recently gone through a troubleshooting process where I thought that my receiver had a bad S meter, and after a long course of testing, I found that the front end had suffered a mild overload. The radio was still quite useable, and to my ear was not weak on receive. It was not "deaf" but we eventually deterimined that it was "hard of hearing." The S meter action comes off of the AGC line, and with the weak receive a very hear-able signal does not trigger the AGC, so the evidence was the weak S meter response. I don't have a signal generator either, and so I was pretty severely handicapped, that is why it took me so long, and so many wrong turns, but I did eventually figure out all of my problems using my MFJ-259 antenna analyzer as a signal generator. It is drifty, there is no kind of calibration of the signal level, but it will put a signal into the front end. It would be a lot easier with a signal generator, and if I had to do it again I would probably just get hold of one.

The reason I bring all this up is that we can perhaps figure out a few things on your TS520 before having to send you to town. <smirk> Definitely start with cleaning contacts, as Gordon says that will solve a lot of problems. Then if that doesn't work lets talk about jury rigging a test to see if we can figure out something.

73
--Ron
KC0TLN

-----Original Message-----
From: TS-520_820_530_830@yahoogroups.com
[mailto:TS-520_820_530_830@yahoogroups.com] On Behalf Of Gordon
Sent: Wednesday, December 27, 2006 6:27 PM
To: TS-520_820_530_830@yahoogroups.com
Subject: [TS-520_820_530_830] Re: TS-520 SE Mode Switch and S Meter

I am suspecting either a Dirty Band switch or a poor connection on one of the boards. It also could be a dirty relay, but not too common of a problem. If it is the relay, it's best cleaned carefully with a business card or dollar bill soaked with De-Oxit that is placed and rubbed between the contacts. I would suggest buying some De-Oxit and spraying all the controls and Band switches.Work each control and switch through it's motion right after spraying. Be sure to do this with the rdio OFF !
I remove each connector (One at a Time), spray them, reconnect and then move on to the next connector. Usually about 90% of problems can be solved this way. I swear that NOTHING seems to work as good as De-Oxit 5 for cleaning controls, switches and contacts IMHO.

73,
Gordon
N6WK

--- In TS-520_820_530_830@yahoogroups.com, "baumbrent"
<brentbaum5323@...> wrote:
>
> I discovered two new problems with my 520SE over the holiday break.
>
> 1. The S meter will only run up to S 2.5, even on a signal that is
> rattling the windows. I suppose it needs to be adjusted. Is there a
> way to do so without using a signal generator? (It's a 50 mile one way
> trip to the big city to find someone who has one.) I need to get the S
> meter working so I can bring the 10 meter section into oscillation and
> peak the rest of the bands.
>
> 2. The audio output drops to about half volume after warm up, or if
> the radio gets bumped. Sometimes I can cycle the Mode switch and bring
> it back for a while, but it soon drops out again. Something is
> probably loose and/or reacting thermally. Any ideas before I begin
> chasing electrons through the schematics?
>
> By the way I had a quick QSO from Northern Utah with N5PYJ in Texas at
> about 1600 MST yesterday. He was running an 830S at about 85 watts.
> Arm chair copy through the QRN.
>
> Thanks all, and happy new year.
> K7MEI, Brent
>

Yahoo! Groups Links

11789. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 07:58:41 UTC
From: alicein49
Topic: 11711 Message: 11789

Joan

I'm not sure that it's that simple.

Certainly, with the heaters in series, equal resistances in series across 12V will dissipate equal power and create the same heating effect, so each tube will be doing equal work (other things being assumed the same). So when one heater has a lower resistance, that heater will be dissipating less power, creating less heat, and therefore the tubes will in theory be doing unequal amounts of work.

However, what happens when we put the heaters in parallel? Equal resistance heaters will again dissipate equal power, but if the heaters are different resistances, once again the power dissipated in each will be different, and the tubes will doing unequal work. Two 120 ohm heaters across 12V will dissipate 1.2 watts each. If one tube is 110 ohms and the other 130, their heaters will dissipate 1.3 and 1.1 watts (approx) respectively - the lower resistance heater will create more heat and that tube will work harder.

The only gain will be that a variation in one tube will not affect the other - current through the heaters will be independent of the other tube's heater resistance. But they will still be different.

Another point is that I think that you would find that the relationship between the power dissipated in the heater and its effect on anode current is extremely non-linear, and therefore there would need to be quite a large variation in heater resistance to create any noticeable effect on how hard each tube works.

Or have I missed something?

Regards
Geoff VK2HQA

--- In TS-520_820_530_830@yahoogroups.com, Joan de vk5kyo <VK5KYO@...> wrote:

> I think that running parallel heaters makes more sense in maintaining
> the characteristics of individual tubes. ie. heater resistance from one
> valve will not affect the other tubes performance. A simple illustration
> of my thought, is to put a number of 12 of 1 Ohm power resistors in
> series and connect it to a 12V supply. Ohms law will tell you that

1 Amp
> will flow. But if one is to measure the voltage across each
resistor,
> they will most likely be all different and the heat dissapated in
each
> resistor will be different. This is the result of tolerance.
> Manufacturers can build anything with a tolerance factor. The
tighter
> the tolerance the higher the cost.
> By measuring the voltage across the standard tubes in my Kenwoods,
I
> have proven that tolerance will play a part in the tubes
performance. It
> can not pull its weight if the heater voltage is not enough, and
the
> other tube will be more stressed because of higher voltage, hence
higher
> emission. Any comments this time round?
> Joan VK5KYO
>
> Feb 2006
> Hi everybody
>
> I know there has been lots of discussions in the past regarding
matched
> pairs of 6146's for the Kenwoods and alike, and the answer may have
> already been posted, but I have just repaired 2 TS-830's with
output
> power problems which left me with some questions.
> During the quest to resolve the issues, I was thinking a little
more on
> the issue of matched valves.
> The owner of the radio I was repairing, send me a matched pair of
6146's
> and on each of the valves was a number written on it.
> Can I assume this is the gain of the tube, or is it the current
drawn
> under certain test parameters, and the fact that both numbers are
the
> same, I will say that they are a match?
> The other question I was left pondering with is when I pulled my
RCA
> test tubes out (which happens to have 12 volt filaments), and
rewired
> the set back to standard 6 volt operation, will it be as good?
> When the experts check new tubes for so called matched
characteristics,
> are they applying 6volts to each filament and testing the gain of a
tube
> individually, or are they putting a pair of tubes with their heater

> filaments in series (as Kenwood is wired this way), and then
checking
> for their individual gain.
> The results will be different and for those that know, can you tell
me
> if it is significant or not.
> The reason why I say it will be different is because my experience
has
> been that the filament of each 6146 is not exactly the same
> resistance(call it manufacturers tolerance), and if you measure the
> voltage drop across each tube, it maybe 6.0 volts for one and 6.4
volts
> for the other. That is pretty well what I measure.
> This is a bad thing because the tube with a higher resitance will
also
> have a higher voltage drop across the heater and will therefore be
more
> stressed.
> Which begs the question whether it will be working harder than it's
> mate who is having a holiday.
> I know the valves will still work and more than likely put out
100++
> Watts, but it does sort of blow the matched pair theory.
> I'd would call them truly matched if both the filaments have equal
> resistance and therefore hopefully the same heat value generated to
> promote emissions and finally they have the same gain.
> If the tubes were only tested individually with 6 volts applied to
the
> heaters, then the only way we could correct the problem, is to
balance
> out the weaker valve with a bit of extra resistance parallel with
the
> heater so that both 6146's will have equal heater voltage.
> I hope you get the drift of what I am trying to say.
> I'd appreciate your thoughts on this.
> One might say that it is too much theory and that in the practical
sense
> it wont make a scrap of difference.
> It may well be the reason why there have been some premature
failures,
> especially when one starts to mix different brands of 6146's.
> Illustration time - Different manufacturers of clothing are all
asked to
> produce a size 16 garment, and yet the final product all seem to
differ
> a little in size.
> To stay on the humurous side, my last statistic count of 5, goes to
the
> most popular name in this group, and that is"Bill". The Bill's have
it.

> Because of this fact, I like to drag these wonderful gentlemen into
> another illustration, and say that allthough they carry the same
name,
> all Bills are not the same, in fact they are all unique.
> So how can you ever have matched pairs of 6146's??
> Joan VK5KYO
>
>
> Another reply I posted in May 2006
> Hi Chris
>
> The answer to your question is, YES, most certainly. The heater
supply
> is in fact 12 volts and the original wiring puts the 6146's heaters
in
> series. Just remove the series link, provide a earth strap for the
front
> tube and run a new wire to supply 12 volts to the most rear tube.
About
> 1 hour job by the time you take covers of and the circuit board and
work
> out what your doing.
> I have done this with my TS-520 and also a TS-830. They work great.
> Great value for money and probably a well kept secret.
> One warning though, is to put a warning on the PA cover that the
heaters
> are set for 12Volts. You dont want to go back there many years
laters
> with a nice new pair of 6146's and watch the sun go up for a few
> seconds, followed by a very quick sunset and tears. Remembering
then is
> too late.
>
> Here is a little extract from Glen. (you can Goggle for this
article)
>
> The 6146 Family of Tubes - by Glen E. Zook, K9STH
> The 12-volt equivalent of the 6146 is the 6883, the equivalent of
the
> 6146A is the 6883A, and the 6146B is the 6883B. Now, there are the
tubes
> that were manufactured for FM commercial service. These series go
as
> follows: 6883, 6883A / 8032, 6883B / 8032A / 8552. Again most of
these
> are "cross branded" with all of the tube numbers that are
equivalent.
>
> Next time Chris, or anyone else for that matter, if you can't get
hold

> of 6146's, don't hesitate to use the alternative at a fraction of
the cost.
>
> Joan VK5KYO
>
>
>
> Chris Howard wrote:
> Is it possible to rewire the filaments in such a way
>
> > as to use the 12 volt filament versions of the 6146?
> >
> > We had a guy at a local hamfest selling the 12 volters
> > for about a buck each.
> >
> > Chris
> > w0ep
> >
> >
>
>
>
>
>
>
>
> John Harp wrote:
>
> > Well Gordon, like you I have considered that mod also. I like you
I
> > can mod and mod again without it bothering me. I havew chosen to
put
> > it off for right now since I have to many irons in the fire at
the moment.
> >
> > I would think after rewire and neutralization the radio should
work
> > fine. Any difference in power should be realized by a change in
> > filament power I would think. I suppose it would be nice to have
the
> > idea tried and the results archived for the futrure.
> >
> > I have begun the process of converting my station to solar by
steps.
> > Thus considering the possibility of trying 12 volts for solar as
well
> > as portable and maybe the mod for as I say archival to the future.
> >
> >
> >
> > Gordon <n6wk@... <mailto:n6wk%40n6wk.com>> wrote:

> > Has anyone swapped their 6146B tubes out for the 6883B 12 volt
version ?
> >
> > I was thinking of trying this mod on the 830 I have here. It puts
out
> > about 100 watts with the 6146B's that are it it now, But it might
be
> > fun to try the 6883B mod. It looks pretty simple, Just wewire the
Heaters.
> >
> > 73,
> > Gordon
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

11790. Using 12v solar power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 10:43:05 UTC
From: Yves Remedios
Topic: 11711 Message: 11790

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I have begun the process of converting my station to
> solar by steps. Thus considering the possibility of
> trying 12 volts for solar as well as portable and maybe
> the mod for as I say archival to the future.

I would be interested in seeing details of your solar conversion.
Last year I visited Southern Spain and there houses in the mountains
are powered entirely by solar generated electricity that charges
lead/acid batteries which is used to generate 230v using an inverter.

I note that the Yaesu FT-902DM and FT-101E and both come with a 12v
inverter attached to the back of the radio. It seems to be a simple
inverter circuit driving the built-in mains transformer.

11791. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 10:55:54 UTC
From: Yves Remedios
Topic: 11711 Message: 11791

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> It would seem to be a good point. If the tubes for some reason
> had slightly filament resistances, such as if they were not
> of the same brand or production run, it is possible that the
> filament voltages will not be balanced. Parallel 12v filaments
> would eliminate this problem.

Would these 6883B valves have originally been intended to run off a regulated 12v supply? My reason for asking is that a motor vehicle 12v supply can vary from 11.5v to 15v so is the heater designed to cope with this variation?

I have looked at the circuits for the FT-902 and FT-101Z and both also have a 12v heater supply so wire both heaters in series.

11792. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 15:37:54 UTC
From: Joan de vk5kyo
Topic: 11711 Message: 11792

Hi Geoff

Good point there, and from this we can definetly draw one conclusion, that we are never to mix brand names, because even though the tubes are probably all built to certain specifications, the spread of characteristics is likely to increase if slightly different materials are used by different manufacturers.
I suspect that if there were a number of different manufacturers making the 12volt equivalent of the 6146 that mixing brands will probably have less of an affect at 12v than if you were to use a pair of 6volt versions by different manyfacturer.

Having said the above, your last point may just be the thing that nullifies this whole debate. I have also stated before that it may not make a scrap of difference, but as I am a person that likes to logically think things through, I think the benefit of one tube not affecting the other is worth considering and not to mention the availability and costs of the alternative.
Now for the knowledgable, I don't know who the first manufacturer was for the 6146's, but how did the other manufacturers obtain the specifications of the tube so they can manufacture their version?. I have my doubt that there was freedom in exchanging this sort of information back in those day's. Maybe by reverse engineering the product. Yes, you can reverse engineer almost anything, and some companies do, but how close will you get to the real product using this method?

My other question in my earlier post was about the numbers written on the boxes of matched 6146 tubes. Are these a gain figure, when the tubes are tested individually, and the gain recorded on the box, or did they truly made an attempt at matching the valves characteristics by placing matched heaters in series (as in the Kenwood radio) and then measuring their gain? I suspect not.
But does it all really matter? Probably not, but I would like to hear both sides of the argument.
Many radio's out there are still using the original valves, however the more I think about this, the more I like the idea of the 12v heaters because I think it is technically correct to do so and there is a much cheaper alternative out there which have been overlooked and sold for peanuts. The persons that stands to benefit from this, is you.
Am I the really the only person running the 12v version in my Kenwood thus far?

Joan
VK5KYO

alicein49 wrote:

> Joan
>
> I'm not sure that it's that simple.
>
> Certainly, with the heaters in series, equal resistances in series
> across 12V will dissipate equal power and create the same heating
> effect, so each tube will be doing equal work (other things being
> assumed the same). So when one heater has a lower resistance, that
> heater will be dissipating less power, creating less heat, and
> therefore the tubes will in theory be doing unequal amounts of work.
>
> However, what happens when we put the heaters in parallel? Equal
> resistance heaters will again dissipate equal power, but if the
> heaters are different resistances, once again the power dissipated in
> each will be different, and the tubes will doing unequal work. Two
> 120 ohm heaters across 12V will dissipate 1.2 watts each. If one tube
> is 110 ohms and the other 130, their heaters will dissipate 1.3 and
> 1.1 watts (approx) respectively - the lower resistance heater will
> create more heat and that tube will work harder.
>
> The only gain will be that a variation in one tube will not affect
> the other - current through the heaters will be independent of the
> other tube's heater resistance. But they will still be different.
>
> Another point is that I think that you would find that the
> relationship between the power dissipated in the heater and its
> effect on anode current is extremely non-linear, and therefore there
> would need to be quite a large variation in heater resistance to
> create any noticeable effect on how hard each tube works.
>
> Or have I missed something?
>
> Regards
> Geoff VK2HQA
>
>
>
>
>
>
>--
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.409 / Virus Database: 268.15.28/606 - Release Date: 28/12/2006
>
>
>

[Non-text portions of this message have been removed]

11793. RE: [TS-520_820_530_830] Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 15:48:47 UTC
From: BRENT BAUM
Topic: 11759 Message: 11793

Barry,
Don't bemoan that you didn't get the SE. Kenwood should have labeled it the CE for Cheaper Edition as the SE doesn't have the transverter connections, the dual AC/DC power option and a few other little items. Congrats on finding a good deal.
Brent, K7MEI

>From: "boat.anchor" <boat.anchor@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: [TS-520_820_530_830] Re: Rare Find
>Date: Thu, 28 Dec 2006 04:11:53 -0000
>
>In the spirit of good finds I went to a local hamfest a month ago
>and picked up a TS-520 and SP-520 for CDN75.00 I have to admit it
>isn't pristine and is just the plain Jane verion, not the Special
>Edition (SE).
>regards
>Barry
>VA7GEM
>
>
> > tom@... wrote:
> >
> > > I confess, it was I that found the 520SE for $100. I've been
>lurking
> > > for a few days now.
> > >
> > > --
> > >
> > > 73
> > > Tom
> > > KC9ECI
>
>

11794. Re: TS830 and accessories for sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 15:54:05 UTC
From: ve3tmt
Topic: 11778 Message: 11794

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Max,
> What are your NEW interests ??

Want another FT920 in the shack Gordon.

Max
VE3TMT

11795. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 15:59:47 UTC
From: Joan de vk5kyo
Topic: 11711 Message: 11795

Hi Yves
Not sure if I can correctly answer your question, but it is from my
understanding that the heaters are still wired to the transformer. They
are not directly connected to the battery. I'm not sure how much smarts
are in these old inverters but I suspect that if the DC/DC inverter is
doing its job, then the output hopefully will not vary much and
hopefully very similar to when it is powered of the mains supply.
Can someone who has the inverter option verify the voltage variation
against different rev's on the engine? Is the HV similar to when at home?
The otherthing to mention is that some tubes have very critical heater
voltages. Any over voltage will drastically reduce the life of the tube.
That's probably why some linears also have "TX lock out" timers on them
to stabilise the temperature of the valve.
By the way I am looking for a transformer for a FT901DM. For the time
being I have used a FT101 transformer, so it is a receive only set for
now. Can anyone help here? (Yes, I know this is not a Kenwood number)

Joan

Yves Remedios wrote:

> --- In TS-520_820_530_830@yahoogroups.com
> <mailto:TS-520_820_530_830%40yahoogroups.com>, "n9wb" <n9wb@...> wrote:
> >
> > It would seem to be a good point. If the tubes for some reason
> > had slightly filament resistances, such as if they were not
> > of the same brand or production run, it is possible that the
> > filament voltages will not be balanced. Parallel 12v filaments
> > would eliminate this problem.
>
> Would these 6883B valves have originally been intended to run off a
> regulated 12v supply? My reason for asking is that a motor vehicle
> 12v supply can vary from 11.5v to 15v so is the heater designed to
> cope with this variation?
>
> I have looked at the circuits for the FT-902 and FT-101Z and both also
> have a 12v heater supply so wire both heaters in series.
>
>
>
>----------
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.409 / Virus Database: 268.15.28/606 - Release Date: 28/12/2006
>

>
>

[Non-text portions of this message have been removed]

11796. Re: [TS-520_820_530_830] Using 12v solar power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 16:03:11 UTC
From: Dave and Loraine
Topic: 11711 Message: 11796

Hi Yves and all,
Does the Kenwood inverter produce a 'modified sine wave' (square-ish wave) or near sine?
Maybe an owner could scope it and tell us?
I'm wondering 'how rough is enough', as input to our precious mains transformers.
Maybe just buy a 12V rig rather than bastardising a classic.
BTW Yves, what's your call?
73 Dave F4EYK

11797. Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 16:51:49 UTC
From: Bob
Topic: 11759 Message: 11797

I must confess also on getting good deals....

Few years ago at a local hamfest, this lady had 2 ts 830s setting on her selling table with a price tag of $450 for both....also stated on sign was " both not working"....but both were mint mint mint condx.

Hundreds of people looked at them , but passed on them also.....
At the end end of the hamfest day, I happened to be walking past her table to go to my truck.....she was packing everything up.
I politely asked her " what wud be ur lowest price on both of those units".....she said....give me a $150 for both, but I'm tellimg u that both are non working, but light up. I broke my arm reaching for my wallet.....paid her cash.....we were both happy. I picked up both units, one on each arm....heavy. She said " wait a minute"....this other stuff goes with it.....the sp230 speaker....shure444 desk mic , boxes/ instructions.....I was grin'n.

After a looooong ride home.....
First unit I opened up .....the speaker plug in wire was off.....worked like brand spank'n new , PLUS it had both cw filters in it. NO service needed!!!!

Second unit.....speaker wire unplugged also.....but HV was only 450 volts.....replaced 2 HV caps.....presto.....perfect.

Another story.....
Buddy of mine (non ham) calls me on the phone.....says to me he just went to a local flea market.....and there was a box of radio stuff there....and there was a " something " with a meter on it....said I should check it out....
Well I went to investagate.... Found a brand new HAM M rotor with controller box....all hardware , bolts etc in a unopened bag.
I asked the gentleman.....how much u want for this.....he said ....give me 75 cents.....get it outta here.
Again , another broken arm.....

Another story.....
A lawyer calls me up.....says he got tons of ham equipment in a house that was being sold.....seller said " ham stuff" must go ASAP.
Lawyer said he jotted down names of equipment...tons of COLLINS , HEATH KITS ....etc. Told me must be a gold mine of stuff there.....BUT , here is the catch.....U MUST REMOVE TODAY.....all for a $1000.....gulp.
I ended up with complete LATE COLLINS S LINE....also GOLD DUST TWINS.....AMPS....ANTENNAS.....I can go on and on.....unreal.....sold about 6 thousand dollars worth of it.....still got stuff.....unreal.

Sooo , it goes to show u , good deals will happen when u least expect them.....
NO.....I'm not a dealer.....just a lucky fella.
BOB N3OO

11798. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 17:32:14 UTC
From: Peter A Markavage
Topic: 11711 Message: 11798

You said: "that we are never to mix brand names"

In my 40 plus years of hamming, I have not seen that to be an issue unless the tubes were used in some type of push-pull operation. I have mixed 6146/A/B/W's(pair of A's, pair of W's, etc.) made by RCA, GE, Tung-Sol, ECG, and others with great success.

You said: that mixing brands will probably have less of an affect at 12v than if you were to use a pair of 6volt versions by different manufacturer."

I'm not sure how you came to that conclusion.

You said: "I don't know who the first manufacturer was for the 6146's, but how did the other manufacturers obtain the specifications of the tube so they can manufacture their version?. I have my doubt that there was freedom in exchanging this sort of information back in those day's. Maybe by reverse engineering the product."

RCA first introduced the 6146 back in the mid 50's. Tube manufacturers had reciprocal agreements with each other and all were involved with licensing their tube products to other manufacturers.

You said: "about the numbers written on the boxes of matched 6146 tubes."

As far as I can remember 6146 tube manufacturers didn't "match", one-on-one tubes. They generally manufacturer in lot quantities and depending on the demand, each lot could be as high as 10,000 to 25,000 tubes. Depending on the manufacturer, numbers on box could be year/month/week of manufacture and/or a lot number.

Today's sold "matched tubes" could be nothing more then matching the color of the boxes or a simple tube checker check to measure transconductance to find tubes with readings that fall fairly close to each other and within some specific + or - variation. Marched tubes in circuits designed around the 6146 family and working in parallel are not necessary. However, from the sellers point of view, besides generating additional sale revenue, it conjures up a "feel-good" perspective to the buyer.

Pete, wa2cwa
ManualMan Notice: Now through 12/31/06, use Coupon # 803815, and save $3 off every on line order at the http://www.manualman.com web site. Minimum order is $10. With every order you'll also receive a $3 coupon good throughout 2007. Use it as many times as you like.
On Fri, 29 Dec 2006 02:07:54 +1030 Joan de vk5kyo <VK5KYO@...>
writes:

> Hi Geoff

>
> Good point there, and from this we can definetly draw one
> conclusion,
> that we are never to mix brand names, because even though the tubes
> are
> probably all built to certain specifications, the spread of
> characteristics is likely to increase if slightly different
> materials
> are used by different manufacturers.
> I suspect that if there were a number of different manufacturers
> making
> the 12volt equivalent of the 6146 that mixing brands will probably
> have
> less of an affect at 12v than if you were to use a pair of 6volt
> versions by different manyfacturer.
>
> Having said the above, your last point may just be the thing that
> nullifies this whole debate. I have also stated before that it may
> not
> make a scrap of difference, but as I am a person that likes to
> logically
> think things through, I think the benefit of one tube not affecting
> the
> other is worth considering and not to mention the availability and
> costs
> of the alternative.
> Now for the knowledgable, I don't know who the first manufacturer
> was
> for the 6146's, but how did the other manufacturers obtain the
> specifications of the tube so they can manufacture their version?. I
>
> have my doubt that there was freedom in exchanging this sort of
> information back in those day's. Maybe by reverse engineering the
> product.
> Yes, you can reverse engineer almost anything, and some companies
> do,
> but how close will you get to the real product using this method?
>
> My other question in my earlier post was about the numbers written
> on
> the boxes of matched 6146 tubes. Are these a gain figure, when the
> tubes
> are tested individually, and the gain recorded on the box, or did
> they
> truly made an attempt at matching the valves characteristics by
> placing
> matched heaters in series (as in the Kenwood radio) and then
> measuring

> their gain? I suspect not.
> But does it all really matter? Probably not, but I would like to
> hear
> both sides of the argument.
> Many radio's out there are still using the original valves, however
> the
> more I think about this, the more I like the idea of the 12v heaters
>
> because I think it is technically correct to do so and there is a
> much
> cheaper alternative out there which have been overlooked and sold
> for
> peanuts. The persons that stands to benefit from this, is you.
> Am I the really the only person running the 12v version in my
> Kenwood
> thus far?
>
> Joan
> VK5KYO
>

11799. Re: [TS-520_820_530_830] Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 18:10:43 UTC
From: Max Harelik
Topic: 11759 Message: 11799

Luck doesn't begin to touch it. You are obviously supposed to to do something glorious and beneficent with this abundance of material wealth. (Perhaps, ahem...., share it?). ; >)

73,
Max, K5OVW

Bob wrote:

> I must confess also on getting good deals....
>
> Few years ago at a local hamfest, this lady had 2 ts 830s setting on
> her selling table with a price tag of $450 for both....also stated on
> sign was " both not working"....but both were mint mint mint condx.
>
> Hundreds of people looked at them , but passed on them also.....
> At the end end of the hamfest day, I happened to be walking past her
> table to go to my truck.....she was packing everything up.
> I politely asked her " what wud be ur lowest price on both of those
> units".....she said....give me a $150 for both, but I'm tellimg u that
> both are non working, but light up. I broke my arm reaching for my
> wallet.....paid her cash.....we were both happy. I picked up both
> units, one on each arm....heavy. She said " wait a minute"....this
> other stuff goes with it......the sp230 speaker....shure444 desk mic ,
> boxes/ instructions.......I was grin'n.
>
> After a looooong ride home.....
> First unit I opened up .....the speaker plug in wire was
> off.....worked like brand spank'n new , PLUS it had both cw filters
> in it. NO service needed!!!!
>
> Second unit.....speaker wire unplugged also.....but HV was only 450
> volts.....replaced 2 HV caps.....presto.....perfect.
>
> Another story......
> Buddy of mine (non ham) calls me on the phone.....says to me he
> just went to a local flea market.....and there was a box of radio
> stuff there....and there was a " something " with a meter on
> it....said I should check it out....
> Well I went to investagate.... Found a brand new HAM M rotor with
> controller box....all hardware , bolts etc in a unopened bag.
> I asked the gentleman.....how much u want for this.....he said
> ....give me 75 cents.....get it outta here.
> Again , another broken arm.......
>
> Another story.......

> A lawyer calls me up.....says he got tons of ham equipment in a house
> that was being sold.....seller said " ham stuff" must go ASAP.
> Lawyer said he jotted down names of equipment...tons of COLLINS ,
> HEATH KITS ....etc. Told me must be a gold mine of stuff
> there.....BUT , here is the catch.....U MUST REMOVE TODAY.....all for
> a $1000.....gulp.
> I ended up with complete LATE COLLINS S LINE....also GOLD DUST
> TWINS.....AMPS....ANTENNAS.....I can go on and on.....unreal......sold
> about 6 thousand dollars worth of it.....still got stuff.....unreal.
> Sooo , it goes to show u , good deals will happen when u least expect
> them.........
> NO.....I'm not a dealer......just a lucky fella.
> BOB N3OO
>
>

[Non-text portions of this message have been removed]

11800. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 19:26:22 UTC
From: Geoff Hegarty
Topic: 11711 Message: 11800

Hi Joan

I think the bottom line to this debate is that our radios were designed on the assumption that the tubes would be the same, and in general anything we can do to adhere to that design should be regarded as "good practice". This means, for me, preferring two tubes from the same manufacturers batch if possible and probably nothing more than that.

While there may be advantages to running parallel heaters (perhaps a ready supply of cheap, good tubes), I suspect that other benefits are more "feel good" than real. There may even be a negative, thinking about total heater current especially at switch-on when heater resistance is lower - will this be stressing the heater supply? i don't know, but it is something I would check before doing the mod.

As for manufacturers sharing information, you'll find that "back in those days", information was much more freely available than it is today. Remember consumer electronics with a complete circuit diagram and parts list on the inside of the cabinet! In the case of components, the design would probably have been licensed to other manufacturers at a price.

All the best
Geoff VK2HQA

By the way Joan, where are you - in Adelaide?

Advertisement: It's simple! Sell your car for just $20 at carsales.com.au
http://a.ninemsn.com.au/b.aspx?URL=http%3A%2F%2Fsecure%2Dau%2Eimrworldwide%2Ecom%2Fcgi%2Dbin%2Fa%2Fci%5F450304%2Fet%5F2%2Fcg%5F801577%2Fpi%5F1005244%2Fai%5F838588&_t=757768878&_r=endtext_simple&_m=EXT

11801. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 20:49:35 UTC
From: Another Old Codger
Topic: 11711 Message: 11801

In 1964 RCA introduced a 'new' version of the 6146B/8298A which had the RCA "Dark Heater" which was designed to operate between 6.0 and 7.5 Volts and which will accommodate variations in battery voltage between 5 and 8 volts. These details are taken from the RSGB Bulletin June 1964.

As an ex-Service Manager of a major valve/tube manufacturer I can assure you that while valve/tubes from different manufacturers can appear to be the same, the difference is in the quality and type of materials used, especially in such items as the cathode and anode/plate. This is more likely in specialist valve/tubes.

In the average domestic items, unmarked batches were traded between manufacturers, as obviously it is less costly to do one massive run of a particular item and share it out, than try to cut each others throats. At one time in GB practically every lighting lamp was made in the same factory, and then tested, stamped, and packed by the individual manufacturer.

As far as matching is concerned, I would suggest that it is not a good idea to mix different manufacturers valves, which should preferably be from the same batch. Batches differ subtly in such matters as inter-electrode capacity, electrode spacing and the usual manufacturing tolerances. Sometimes there are slight design changes between batches.

I have several of the RCA data sheets for the various 6146 if anyone would like them.

73 Ron G8URU

----- Original Message -----
From: "Joan de vk5kyo" <VK5KYO@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, December 28, 2006 3:37 PM
Subject: Re: [TS-520_820_530_830] Re: 6146B / 6883B

Hi Geoff

Good point there, and from this we can definetly draw one conclusion, that we are never to mix brand names, because even though the tubes are
probably all built to certain specifications, the spread of characteristics is likely to increase if slightly different materials are used by different manufacturers.
I suspect that if there were a number of different manufacturers making

the 12volt equivalent of the 6146 that mixing brands will probably have
less of an affect at 12v than if you were to use a pair of 6volt versions by different manyfacturer.

Having said the above, your last point may just be the thing that nullifies this whole debate. I have also stated before that it may not make a scrap of difference, but as I am a person that likes to logically
think things through, I think the benefit of one tube not affecting the
other is worth considering and not to mention the availability and costs
of the alternative.
Now for the knowledgable, I don't know who the first manufacturer was for the 6146's, but how did the other manufacturers obtain the specifications of the tube so they can manufacture their version?. I have my doubt that there was freedom in exchanging this sort of information back in those day's. Maybe by reverse engineering the product.
Yes, you can reverse engineer almost anything, and some companies do, but how close will you get to the real product using this method?

My other question in my earlier post was about the numbers written on the boxes of matched 6146 tubes. Are these a gain figure, when the tubes
are tested individually, and the gain recorded on the box, or did they
truly made an attempt at matching the valves characteristics by placing
matched heaters in series (as in the Kenwood radio) and then measuring their gain? I suspect not.
But does it all really matter? Probably not, but I would like to hear both sides of the argument.
Many radio's out there are still using the original valves, however the
more I think about this, the more I like the idea of the 12v heaters because I think it is technically correct to do so and there is a much cheaper alternative out there which have been overlooked and sold for peanuts. The persons that stands to benefit from this, is you.
Am I the really the only person running the 12v version in my Kenwood thus far?

Joan
VK5KYO

11802. Re: [TS-520_820_530_830] Re: Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 21:31:29 UTC
From: n9wb
Topic: 11759 Message: 11802

Making a long story shorter, I picked up 2 TS-820 S units and a new digital readout all for $90.00. One didn't work because the VFO jumper was not there. The other had been partially parted out. I restored it and it is the one I am now running. The one that worked went to an elderly ham friend of mine who had never had a decent radio in his life. Of course he loves it.

N9WB Walt

[Non-text portions of this message have been removed]

11803. seasons greetings from a new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 20:35:24 UTC
From: mm3hvb
Topic: 11803 Message: 11803

Hi
Hope you are are all having a good holiday season,and may i wish you
all a good new year.
Just got hold of a TS520se and hope to have it up and running soon.I
think it just needs re-aligned,tried contacting a few radio shops here
in the UK, but not had any luck yet yet in getting one to do the work.
(they say it`s too old).

bye just now and best wishes to you all from Scotland.

Alan MM3 HVB

11804. Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 22:44:52 UTC
From: Kevin & Natalia
Topic: 11804 Message: 11804

Hi All,

Could someone please advise on the best way to hook-up my TS-830S for digital modes using my computer.
I have tried hooking it up, using MixW, with the speaker output, and the mic input, but this does not allow me to monitor the freq (as the audio is muted to the computer)

Is it possible to mod the radio to take another output out, and maybe also include a input, bypassing having to remove the mic each time.

I mainly use the radio for voice, but do like to check out digital modes as well.

Thanks

Kevin, ZL1KFM.

Get Skype and call me for free.

[Non-text portions of this message have been removed]

11805. Re: [TS-520_820_530_830] seasons greetings from a new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 22:47:55 UTC
From: Graham Ridgeway
Topic: 11803 Message: 11805

On Thu, 28 Dec 2006 20:35:24 -0000, "mm3hvb" <weealan@...>
wrote:

>Hi
>Hope you are are all having a good holiday season,and may i wish you
>all a good new year.
>Just got hold of a TS520se and hope to have it up and running soon.I
>think it just needs re-aligned,tried contacting a few radio shops here
>in the UK, but not had any luck yet yet in getting one to do the work.
>(they say it`s too old).
>
>bye just now and best wishes to you all from Scotland.
>
>Alan MM3 HVB

I know it is a long way Alan - but have you contacted Medway Aerials -
advert in radcom they state 'repairs to all amateur and vintage Rx/Tx'

Failing that - Castle Electronics for 'service and supply of spare
parts' - specifically Kenwood. - They are in Powys

I have not had dealingswith either,merely plucked the ads from radcom

73 Graham M5AAV

11806. Re: [TS-520_820_530_830] Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 22:59:04 UTC
From: Graham Ridgeway
Topic: 11804 Message: 11806

On Fri, 29 Dec 2006 11:44:52 +1300, "Kevin & Natalia"
<sparcnz@...> wrote:

>Hi All,
>
>Could someone please advise on the best way to hook-up my TS-830S for digital modes using my computer.
>I have tried hooking it up, using MixW, with the speaker output, and the mic input, but this does not allow me to monitor the freq (as the audio is muted to the computer)
>
>Is it possible to mod the radio to take another output out, and maybe also include a input, bypassing having to remove the mic each time.
>
>I mainly use the radio for voice, but do like to check out digital modes as well.
>
Not having one [it is a 530 here] but doesn't the 830 have an
extension speaker socket on the back which you could use?

I use the front headphone socket to drive the PC/MixW and running
'silent' PSK/RTTY is wonderful - if you cannot see it - you cannot
work it. Who needs all that noise?

73 Graham M5AAV

11807. Re: [TS-520_820_530_830] Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 23:01:56 UTC
From: Graham Ridgeway
Topic: 11804 Message: 11807

On Fri, 29 Dec 2006 11:44:52 +1300, "Kevin & Natalia"
<sparcnz@...> wrote:

>Hi All,
>
>Could someone please advise on the best way to hook-up my TS-830S for digital modes using my computer.
>I have tried hooking it up, using MixW, with the speaker output, and the mic input, but this does not allow me to monitor the freq (as the audio is muted to the computer)
>
>Is it possible to mod the radio to take another output out, and maybe also include a input, bypassing having to remove the mic each time.
>
>I mainly use the radio for voice, but do like to check out digital modes as well.
>
Not having one [it is a 530 here] but doesn't the 830 have an
extension speaker socket on the back which you could use?

I use the front headphone socket to drive the PC/MixW and running
'silent' PSK/RTTY is wonderful - if you cannot see it - you cannot
work it. Who needs all that noise?

****

Sorry just re-read your plea - you are using the ext socket, I think.

Isn't this what the rigblasters are designed to do ?

My comment re 'silent running' still applies though.

73 Graham M5AAV

11808. Re: [TS-520_820_530_830] Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-28 23:59:38 UTC
From: Ken Winterling
Topic: 11804 Message: 11808

Kevin,

The TS-830 has a transmit monitor that can be used to listen to the transmitted signal. Just press the MONI button on the front panel directly to the right of the MIC/CAR control.

Regarding another input, you could build the simple phone patch input described in the TS-830 user manual. The circuit consists of two resistors, 10K and 100K, as well as a RCA jack, and is connected to the IF unit, X48-1290-00. This mod, unfortunately, does not disconnect the mic jack. You would still have to unplug the mic or provide some method for disconnecting the mic element when using the digital modes.

You could build a simple switching box.. It would have connectors for the desk/hand mic, an external speaker, such as the SP-230, a connector for the TS-830S' external speaker jack as well as connections to the PC audio in and out. A single multipole two position switch could select the mic and external speaker in one position and the digital interface in the other position. Using the MONI function of the '830 would permit you to hear the transmitted signal.

Ken, WA2LBI

On 12/28/06, Kevin & Natalia <sparcnz@...> wrote:
> Hi All,
>
> Could someone please advise on the best way to hook-up my TS-830S for digital modes using my computer.
> I have tried hooking it up, using MixW, with the speaker output, and the mic input, but this does not allow me to monitor the freq (as the audio is muted to the computer)
>
> Is it possible to mod the radio to take another output out, and maybe also include a input, bypassing having to remove the mic each time.
>
> I mainly use the radio for voice, but do like to check out digital modes as well.
>
> Thanks
>
> Kevin, ZL1KFM.
>

11809. Re: [TS-520_820_530_830] Using 12v solar power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 00:33:09 UTC
From: John Harp
Topic: 11711 Message: 11809

Well Yves I decided to start out small and build from simple. It wil be a while before I am all solar power. My VHF FM is now converted and my cloks and some lighting will go next. Eventually when the scale goes larger I will add amy HF Gear and my VHF transverrters.

I decided to get a few small cells to start and bought them one at a time. I kept them charged by a bettery chearger monitoring the charges as I was in the room with them. Next I bought a solar regulator. Not very large, but enough to get me started. I connected the regulator to the batteries as a bank of 3. Now these are not big lead acid cells but something to begin with. I got a couple of higher output panels of 15 watts each to keep them charged with thru the regulator. That way the cells don't get over-charged. The radios on the batteries at the moment don't take that much power and more room to expand is available. The panels I hung on an outside wall facing evening sun and are more than enough at the moment. I ran the power leads thru the wall leaving a small drip loop and then sealed around the wires.

So far the project is going good. My mother likes the idea enough she'd like to make a similar setup for a string of LED lights along the porch.

We have solar lighting along the walk and around the flagpole and we are happy with those results. Now the solar projects begin to assist with the shed which also contains the radio station which is a help considering the amounts of power that can be consumed at times there.

My question right now is about inverters and have yet to look into the subject. The group is welcome to comment if so desired. I eventually want to run the 830 by solar power. An inverter is a considering factor since it simplies the HV factor for the finals and driver.

But that's where that one stands for the moment. The radio gear is kept a distance from the lead acid for the time being. So far the system holds up well, but not much has been added yet either way.

Yves Remedios <remedya-list-yahoo@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...> wrote:
>
> I have begun the process of converting my station to
> solar by steps. Thus considering the possibility of
> trying 12 volts for solar as well as portable and maybe
> the mod for as I say archival to the future.

I would be interested in seeing details of your solar conversion.
Last year I visited Southern Spain and there houses in the mountains
are powered entirely by solar generated electricity that charges
lead/acid batteries which is used to generate 230v using an inverter.

I note that the Yaesu FT-902DM and FT-101E and both come with a 12v
inverter attached to the back of the radio. It seems to be a simple
inverter circuit driving the built-in mains transformer.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11810. Re: [TS-520_820_530_830] Using 12v solar power

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 00:39:15 UTC
From: John Harp
Topic: 11711 Message: 11810

Dave I'm looking into that very question soon enough here. An 830 can draw upwards toward 300 watts during transmit. So the size of the inverter for the load is what I'm looking at next and obviously how many more batteries to add. I have 2 panels at the moment and 3 smaller batteries for my beginning bank. I ponder the possiblity of 3 more batteries and maybe 2 more panels and that may suffice. The inverter size is the question at the moment beyond the fact that finances just became tight for a little while.

Dave and Loraine <dave.crooks@...> wrote: Hi Yves and all,
Does the Kenwood inverter produce a 'modified sine wave' (square-ish wave) or near sine?
Maybe an owner could scope it and tell us?
I'm wondering 'how rough is enough', as input to our precious mains transformers.
Maybe just buy a 12V rig rather than bastardising a classic.
BTW Yves, what's your call?
73 Dave F4EYK

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11811. Re: [TS-520_820_530_830] Re: How often to tune?

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 00:52:41 UTC
From: John Harp
Topic: 11633 Message: 11811

You may want to load into a dummy load and than to the auto tuner. Usually the tuner needs to have a small sample of the new frequency first to set itself. So tune into the dummy load then switch back to the tuner but use low poer first to set the auto tuner before loading full power. I have an SG-239 and that's what I have to do. Can't stay on it real long but it does work. It gets down to 2:1 for swr. For tube finals thats close enough.

BRENT BAUM <brentbaum5323@...> wrote: The MFJ unit will probably work great for tuning your antenna system(s).
However, for internal tuning of the tubes one must manually twiddle the
knobs as previously discussed.
73 de K7MEI, Brent

>From: David King <dking@...>
>Reply-To: TS-520_820_530_830@yahoogroups.com
>To: TS-520_820_530_830@yahoogroups.com
>Subject: Re: [TS-520_820_530_830] Re: How often to tune?
>Date: Wed, 27 Dec 2006 10:20:52 -0700
>
>What about utilizing some of the automatic antenna tuners with a 520S?
>
>I've been looking at the MFJ-993B Intellituner based on the experiences
>of one of
>our local hams who has fallen in love with it. He does a lot of
>contesting and experiments
>with a variety of modes...and I've been contemplating it as an addition
>to the shack.
>
>I'm a tech...but had passed the written for General in November and was
>working on my
>code when the FCC announcement came out. I have a 520S and have been
>slowly getting it
>ready to go live in Feb or later...in fact I spent Christmas Day digging
>the tower footing and pouring
>some concrete...
>
>I've been working on this process for the past three months to keep the
>xyl from
>screaming over my dumping large amounts of cash all at once...so it's a
>process and the tuner
>is a "down-the-road" item...not something I was expecting to do right away.
>
>ke7eka
>
>w5rkl wrote:
>

> > Retuning depends how far, one way or the other, you move from the
> > resonante frequency. For example, if you move up 25Khz from the
> > resonate frequency, I would touch up the tuning. However, if you
> > move just a few Khz, I see no need to adjust the tuning.
> >
> > If you are using a tuner, look at the tuner's SWR setting for an
> > increase in SWR. For example, a slight increase from 1.1 to say,
> > 1.3 to 1, does not warrant an adjustment in the tuner. Most modern
> > solid state rigs with built-in tuners will follow the frequency change
> > and automatically adjust accordingly. Most vintage as well as modern
> > day transmitters/transceivers can tolerate an SWR from 2.1 to 1 and
> > lower. Of course the SWR circuitry in modern transceivers will
> > lower the output power as the SWR increases. Having said that,
> > an increase from 1.1 to 1.3 to 1 SWR will not change the power output
> > significantly. I'm sure the receiving end would not even notice it.
> >
> > I am not saying an SWR of 2.1 to 1 is an acceptable level; not at all.
> > I'm simply repeating what you will read in the manual. If the SWR
> > is 2.1 to 1, that warrants touching up on the tuner as well as the
> > transmitter. Modern all solid state rigs don't require touch up
> > tuning; only a tuner if the tuner is seperate from the transmitter.
> >
> > 73's
> > Mike
> > W5RKL
> >
> > --- In TS-520_820_530_830@yahoogroups.com
> > <mailto:TS-520_820_530_830%40yahoogroups.com>, "Doug" <dsib432@...>
>wrote:
> > >
> > > Hello,
> > > I am new the the world of tubes. I understand the tune up procedure
> > > and have that down on my TS-820S. My question is if I tune up in
> > one
> > > part of the band and change freq. in the same band, how far can I go
> > > before I should check everything and be sure it is adjusted
> > correctly
> > > for the new freq? Had a solid state rig that went bad and with all
> > > the holiday costs, didn't have much extra cash to get another solid
> > > state rig. At first I thought it was going to be a pain, but I have
> > > to admit, it is kinda fun to have dials to mess with.
> > >
> >
> >
>
>
>
>[Non-text portions of this message have been removed]
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11812. Re: [TS-520_820_530_830] TS-520

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 01:05:55 UTC
From: John Harp
Topic: 1213 Message: 11812

Well I wouldn't worry about the Remote VFO right now. That you can deal with later. Thr radio will work for you as is. It comes with one Variable frequency Oscillator (VFO) in the unit.

The oth VFO implied is the remote VFO. This is attached to your Kenwood radio vis a special cable to a jack on the back.

Now what this VFO does is this: it makes the operation what they call split transieve. This operation is used more in DX. The cable is a straight thru affair going pin to pin for the most part.

They are available occasionally on ebay. Check around some the stores on ebay and see if they may have or have access to one. But that is still a ways away to you for right now. Get your liscence first and maybe watch for that other stuff as time goes on.

Another Old Codger <clattering.ford@...> wrote:
The simple answer is No, but make sure you have the link plug in the
VFO socket, it's all in the manual.

73 Ron G8URU
----- Original Message -----
From: "Luke" <lk_consulting@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Wednesday, December 27, 2006 3:58 AM
Subject: [TS-520_820_530_830] TS-520

I am new to ham radio and I am currently working on my FCC license but
I went ahead and got a TS-520 on ebay and I was wondering if it must
have the VFO-520 to go with it or will it work without it? What
exactly
does a VFO do anyway? Like I said I am still learning and any
infomation will help alot. Thanks, Luke.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11813. Re: [TS-520_820_530_830] Rare Find

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 01:10:11 UTC
From: John Harp
Topic: 11759 Message: 11813

Congradulations Jeff. Now take real good care of it and it will bring you joy of many contacts over a couple more sunspot cycles for the next 29 years or more.

Jeff May <W0XV@...> wrote: Acquired a TS520S brand new in the box with original 1978 sales receipt...never used ...29 years old...works perfectly with wonderful audio transmit and receive...quite a testimony to a 29 year old never used radio...Jeff...W0XV

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11814. Re: [TS-520_820_530_830] seasons greetings from a new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 00:52:22 UTC
From: Another Old Codger
Topic: 11803 Message: 11814

Hello Alan,

When I received my TS-530 it needed alignment, I followed the alignment procedure in the operating manual, using the Cal signal, it made a vast improvement. When I received the Technical Manual the same procedure required a large amount of test equipment, which I thought was rather humorous.

Read the Operating Manual till you are word perfect, buy the few simple tools needed and do it your self. That's why you are an Amateur.

The TS series are not 'black boxes' that need the professionals!! and any way most of them are board changers, I know, I used to be one myself in my professional life.

73 Ron G8URU, just over The Border.

----- Original Message -----
From: "mm3hvb" <weealan@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, December 28, 2006 8:35 PM
Subject: [TS-520_820_530_830] seasons greetings from a new member

Hi
Hope you are are all having a good holiday season,and may i wish you all a good new year.
Just got hold of a TS520se and hope to have it up and running soon.I think it just needs re-aligned,tried contacting a few radio shops here in the UK, but not had any luck yet yet in getting one to do the work. (they say it`s too old).

bye just now and best wishes to you all from Scotland.

Alan MM3 HVB

11815. Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 01:33:27 UTC
From: John Harp
Topic: 11758 Message: 11815

Ok well thank you Michael. Currently I'm working toward a solar station that will someday drive my 830. I've considered using the 12 volt version of 6146's and maybe it's modification of the High Voltage to it's tubes. Now for some radios that the transformers were lost this may get them going again. Gordon has recently pondered the idea of a project using those tubes.

I've heard of other in the past taking the radio out in thier RV's and using an inverter from batteries. I've seen it done in tractor trailers too. So my question is what size inverter to drive about 300 watts and how quiet will it be?

Now I've heard of this DS-2 but not a thing more. This may be a hard to find item. There was an accessory available as I recall for the TS-520 to convert 12 volts to something the radio could run.

There's a wiring diagram in the archives as I recall that is for a 520 and some beefing up may make it suitable for operation of an 830 since I believe it may draw a little more than a 520. The 830 is rated at 295 watts while transmitting.

So there's some options I've seen so far. I had a 300/400 watt inverter in my freightliner once, but it didn't have enough gump to run the 830. I used to plug in along the parking lot along with my phone to make calls. The larger inverter would have meant I had to direct wire to the batteries. In my company that waas a definite no no. I've seen what happened when some one did that to his truck at the Atlanta terminal.

Michael Bellis <theloneprospector@...> wrote:
This is only my second post, although I have been watching diligently
for about six weeks --- want to thank John Harp for his kind responce
to my inquiry about transverters a couple of weeks ago and praise his
refusal to get involved in the recent ruckus. Now to my question. I
have an 830s that was bought in Singapore in 1981, it's had the mod to
it's main transformer circuitry allowing it to operate on 120v. But I
do see some reference to it's main transformer having DC windings
unlike US models, thus perhaps allowing it to accept the dc to dc DS-2
power supply. Any knowledge about this would be appreciated and if
it's true, anyone with a DS-2 for sale would be and instant friend!
won't be able to respond until 12-30-06.
73
Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11816. Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 03:34:00 UTC
From: ve3tmt
Topic: 11804 Message: 11816

Kevin,

There are many ways around your problem. As far as the receive goes, buy a 1/8" stereo splitter and plug it into the external speaker jack on the 830. Run one cord to your computer mic input and the other to an external speaker. Will probably sound better anyway. Keep in mind the level going into the computer will be dependant on your AF GAIN setting. Trial and error will get it right. I have a fixed output audio tap on mine to feed the sound card. It is very easy to do.

For transmitting, pick up a RigBlaster. It allows you to keep the mic connected and the computer will automatically key the radio when you transmit with MixW and the mic will still work when you are on SSB. I use a RigBlaster Plus on my 830 and it works just great.

73,
Max
VE3TMT

11817. sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 04:15:38 UTC
From: phil pavey
Topic: 11817 Message: 11817

Greetings all,

My TS830s has developed an interesting problem. Whenever I put the rig into CW and insert a key (or even an unterminated plug) I get constant cw sidetone - at about 25% of the volume of when I use the CW key on recieve. If I put the rig into transmit it does not cause any output power (but the sidetone goes up to the full volume). If I switch in the "Vox" it does trip the rig into transmit.

I have ensured with a multimeter that I have no problem with the plugs, leads or the key...

any idea's?

As I use the rig 99% for CW I would like to fix this asap!

73 Phil vk3yb
--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.29/607 - Release Date: 12/28/2006 12:31 PM

11818. Fw: [TS-520_820_530_830] TS-830s on 12v with DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 08:15:11 UTC
From: Kevin Quirke
Topic: 11818 Message: 11818

Michael,
I fitted the transformer from a 520s (this transformer had the windings for the ds-2) to my 830s and built the inverter unit from the circuit in the 520s manual.
It all works good now.
Hope this helps
73
Kevin VK4AKV
----- Original Message -----
From: Michael Bellis
To: TS-520_820_530_830@yahoogroups.com
Sent: Wednesday, December 27, 2006 9:16 AM
Subject: [TS-520_820_530_830] TS-830s on 12v with DS-2

This is only my second post, although I have been watching diligently
for about six weeks --- want to thank John Harp for his kind responce
to my inquiry about transverters a couple of weeks ago and praise his
refusal to get involved in the recent ruckus. Now to my question. I
have an 830s that was bought in Singapore in 1981, it's had the mod to
it's main transformer circuitry allowing it to operate on 120v. But I
do see some reference to it's main transformer having DC windings
unlike US models, thus perhaps allowing it to accept the dc to dc DS-2
power supply. Any knowledge about this would be appreciated and if
it's true, anyone with a DS-2 for sale would be and instant friend!
won't be able to respond until 12-30-06.
73
Michael

_____ NOD32 1939 (20061226) Information _____

This message was checked by NOD32 antivirus system.
http://www.eset.com

[Non-text portions of this message have been removed]

11819. Re: [TS-520_820_530_830] Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 04:45:34 UTC
From: Martin
Topic: 11804 Message: 11819

Hi Kevin. I have a very simple interface that use between my TS-530S and the ancient (P166Mhz) laptop that I use for digital modes and logging. I use 2 audio transformers (1 in each line) for isolation. Basically 1 line goes from the headphone jack of the radio (through an audio transformer) to the line in on the laptop. The other goes from the headphone output of the laptop (through an audio transformer) to the mik jack on the TS-530S. I have disabled all Windows sounds(i use Windoes 98SE on this ancient laptop) and use VOX to key the radio when I transmit. Most people use 1:1 audio transformers, but I used 20:1 transformers as I had some in the junk box. I think you could use the 8 ohm to 500 (or 1000) ohm transformers, especially if you are using the mic input on both the radio and the computer.

I do not mind changing the mic plugs on the rig. You could build a switchbox simply enough though. I wouldn't bother with comercial interfaces as most of them are extremely overpriced.

The way to have a good signal on the air is to make sure that you have a clean signal from the computer, and then make sure that you have NO ALC action when transmitting. I find that this is easily acomplished on my TS-530S when running 20-30 watts output. This is all you should need to run, and I would recommend not going over 40 watts or so. This is for the same reason that you keep tune-up times to a mimimum...The radio is not meant to transmit at 100 watts (CW carrier) for any length of time.

Kevin & Natalia wrote:
> Hi All,
>
> Could someone please advise on the best way to hook-up my TS-830S for digital modes using my computer.
> I have tried hooking it up, using MixW, with the speaker output, and the mic input, but this does not allow me to monitor the freq (as the audio is muted to the computer)
>
> Is it possible to mod the radio to take another output out, and maybe also include a input, bypassing having to remove the mic each time.
>
> I mainly use the radio for voice, but do like to check out digital modes as well.
>
> Thanks
>
> Kevin, ZL1KFM.
>
>
> Get Skype and call me for free.
>
>

> [Non-text portions of this message have been removed]
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at
http://www.defectivebydesign.org/what_is_drm"

11820. Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 11:37:44 UTC
From: ve3tmt
Topic: 11804 Message: 11820

--- In TS-520_820_530_830@yahoogroups.com, Martin <kb0hae@...> wrote:

> I do not mind changing the mic plugs on the rig. You could build a
> switchbox simply enough though. I wouldn't bother with comercial
> interfaces as most of them are extremely overpriced.

Welcome to the wonderful world of amateur radio! Overpriced maybe, but they do work. I have built many homebrew interfaces and some worked fine, others were a pain in the butt. The RigBlaster has worked from day 1 and solved all my ground loop issues and I get compliments on the cleanliness of my PSK signal.

Max
VE3TMT

11821. Re: [TS-520_820_530_830] sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 12:06:15 UTC
From: n9wb
Topic: 11817 Message: 11821

I assume that you are using a mono plug and not a stereo plug. In the Key plug are contacts that act as switches. My guess is that something in there is forming a resistive path to ground or another contact. Also, C-5 a .01 capacitor probably a ceramic disk type may be leaking to ground. This is on the plug and connects from a 220 ohm resistor to ground, Try disconnecting one end of C-5 and see if the low tone that you get on receive stops.Try cleaning the plug thoroughly with de-oxit. Be sure the plug is dry before assessing the result.

Vy 73, Walt N9WB

----- Original Message -----
From: phil pavey
To: TS-520_820_530_830@yahoogroups.com
Sent: Thursday, December 28, 2006 11:15 PM
Subject: [TS-520_820_530_830] sidetone

Greetings all,

My TS830s has developed an interesting problem. Whenever I put the rig into CW and insert a key (or even an unterminated plug) I get constant cw sidetone - at about 25% of the volume of when I use the CW key on recieve. If I put the rig into transmit it does not cause any output power (but the sidetone goes up to the full volume). If I switch in the "Vox" it does trip the rig into transmit.

I have ensured with a multimeter that I have no problem with the plugs, leads or the key...

any idea's?

As I use the rig 99% for CW I would like to fix this asap!

73 Phil vk3yb
--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.29/607 - Release Date: 12/28/2006 12:31 PM

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.15.29/608 - Release Date: 12/29/06

[Non-text portions of this message have been removed]

11822. Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 14:48:06 UTC
From: Another Old Codger
Topic: 11758 Message: 11822

On the 520 and 820, when the inverter board is fitted, the multi-way power plug is wired to feed the heaters of the driver and PA from the battery, via the HTR switch. If you were running and 830 or a 530 from an inverter it would be advisable to wire the heaters direct to the battery, via the HTR switch. Trying to power the whole rig from an inverter would be an unnecessary load, and would also be inefficient due to the losses in the inverter.

As the 830/530 has a similar mains transformer as the 820/520, with a split primary, it should be possible to use the same inverter circuit, thus avoiding many of the losses of a separate inverter. Of course your 830/530 would never be quite the same. A good idea as long as you are happy with a dedicated vehicle rig.

Many of the 'narrow boats' used on British canals use a separate 240 volt 50 HZ alternator driven from the engine. Or a separate alternator charging a massive storage battery, or batteries, and a very big inverter, several Kilowatts.

73 Ron G8URU.

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 29, 2006 1:33 AM
Subject: Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Ok well thank you Michael. Currently I'm working toward a solar station that will someday drive my 830. I've considered using the 12 volt version of 6146's and maybe it's modification of the High Voltage to it's tubes. Now for some radios that the transformers were lost this may get them going again. Gordon has recently pondered the idea of a project using those tubes.

I've heard of other in the past taking the radio out in thier RV's and using an inverter from batteries. I've seen it done in tractor trailers too. So my question is what size inverter to drive about 300 watts and how quiet will it be?

Now I've heard of this DS-2 but not a thing more. This may be a hard to find item. There was an accessory available as I recall for the TS-520 to convert 12 volts to something the radio could run.

There's a wiring diagram in the archives as I recall that is for a 520 and some beefing up may make it suitable for operation of an 830 since I believe it may draw a little more than a 520. The 830 is rated at 295 watts while transmitting.

So there's some options I've seen so far. I had a 300/400 watt inverter in my freightliner once, but it didn't have enough gump to run the 830. I used to plug in along the parking lot along with my phone to make calls. The larger inverter would have meant I had to direct wire to the batteries. In my company that waas a definite no no. I've seen what happened when some one did that to his truck at the Atlanta terminal.

Michael Bellis <theloneprospector@...> wrote:
This is only my second post, although I have been watching diligently
for about six weeks --- want to thank John Harp for his kind responce to my inquiry about transverters a couple of weeks ago and praise his refusal to get involved in the recent ruckus. Now to my question. I have an 830s that was bought in Singapore in 1981, it's had the mod to it's main transformer circuitry allowing it to operate on 120v. But I do see some reference to it's main transformer having DC windings unlike US models, thus perhaps allowing it to accept the dc to dc DS-2 power supply. Any knowledge about this would be appreciated and if it's true, anyone with a DS-2 for sale would be and instant friend! won't be able to respond until 12-30-06.
73
Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11823. Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 16:13:11 UTC
From: james27613
Topic: 11804 Message: 11823

hi,

as posted earlier, you should try the ext speaker jack
and connect to the pc sound card input.

when using the digital modes your pc and speakers will
give you the audio.

when you're done with digital then you just unplug the
ext speaker connection and your ready for cw ssb.
This is an original Plug and Play !

I have built and used the rascal (original) and it worked fine,
and also have the Signalink sl1+ from tigertronics.

the kenwood phone patch pc-1 or pc-1a have also been used to
interface the radio to the pc.

be sure to use the ALC 'mod' that is in the files section to
reduce your power out instead of the mic gain control.
The 'mod' in an external one and helps keep your signal clean.

73 james ke4drn

11824. Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 16:21:58 UTC
From: james27613
Topic: 11711 Message: 11824

Hi,

Interesting these tubes have a 'dark side' !

73 james

> In 1964 RCA introduced a 'new' version of the 6146B/8298A which had
> the RCA "Dark Heater" which was designed to operate between 6.0 and
> 7.5 Volts and which will accommodate variations in battery voltage
> between 5 and 8 volts.

11825. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 16:41:01 UTC
From: n9wb
Topic: 11804 Message: 11825

I certainly can understand why he wants to be able to hear the frequency. Any responsible Radio amateur would want to be sure that the frequency is clear before he fired up a digital signal potentially wiping out an on going analog QSO.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11826. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 17:03:33 UTC
From: Another Old Codger
Topic: 11711 Message: 11826

During the 1950's the manufacturers were working hard with new coatings for the cathode in an attempt to lower the required temperature. There was/is the cold cathode tube which were usually gas filled and used ionisation to heat the cathode. The only ones that I ever saw were rectifiers usually in car radios. The synchronised vibrator became more popular, and of course the 'tranny' eliminated them entirely.

Blimey, that brings back memories of barreters and line cords!

Ron.

----- Original Message -----
From: "james27613" <james27613@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 29, 2006 4:21 PM
Subject: [TS-520_820_530_830] Re: 6146B / 6883B

Hi,

Interesting these tubes have a 'dark side' !

73 james

> In 1964 RCA introduced a 'new' version of the 6146B/8298A which had
> the RCA "Dark Heater" which was designed to operate between 6.0 and
> 7.5 Volts and which will accommodate variations in battery voltage
> between 5 and 8 volts.

11827. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 17:09:11 UTC
From: Another Old Codger
Topic: 11804 Message: 11827

Why not use the audio output on Pin 1 of the Remote Connector,
(Record) 100 to 150 mv. It's not controlled by the Audio Gain!

Ron.
----- Original Message -----
From: "n9wb" <n9wb@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 29, 2006 4:41 PM
Subject: Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

I certainly can understand why he wants to be able to hear the
frequency. Any responsible Radio amateur would want to be sure that
the frequency is clear before he fired up a digital signal potentially
wiping out an on going analog QSO.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

11828. Re: [TS-520_820_530_830] sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 17:43:34 UTC
From: Alan Wolke
Topic: 11817 Message: 11828

Phil,

Check the two switching diodes in the sidetone oscillator circuit. They might be getting leaky. This was a problem on my rig a few years ago.

73,
Alan
W2AEW

phil pavey wrote:

> Greetings all,
>
> My TS830s has developed an interesting problem. Whenever I put the rig into
> CW and insert a key (or even an unterminated plug) I get constant cw
> sidetone - at about 25% of the volume of when I use the CW key on recieve.
> If I put the rig into transmit it does not cause any output power (but the
> sidetone goes up to the full volume). If I switch in the "Vox" it does trip
> the rig into transmit.
>
> I have ensured with a multimeter that I have no problem with the plugs,
> leads or the key...
>
> any idea's?
>
> As I use the rig 99% for CW I would like to fix this asap!
>
> 73 Phil vk3yb
> --
> No virus found in this outgoing message.
> Checked by AVG Free Edition.
> Version: 7.5.432 / Virus Database: 268.15.29/607 - Release Date:
> 12/28/2006
> 12:31 PM
>
>

11829. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 18:18:30 UTC
From: Graham Ridgeway
Topic: 11804 Message: 11829

On Fri, 29 Dec 2006 11:41:01 -0500, "n9wb" <n9wb@...> wrote:

>I certainly can understand why he wants to be able to hear the frequency. Any responsible Radio amateur would want to be sure that the frequency is clear before he fired up a digital signal potentially wiping out an on going analog QSO.
>

And any very responsible Radio Amateur would not be using SSB [the pattern of which is very plain on the waterfall] or even CW [just as visible] on the Digimode frequencies.

However I accept your point [up to a point <smile>]

73 Graham M5AAV

11830. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 20:58:36 UTC
From: Kevin & Natalia
Topic: 11804 Message: 11830

Hi Guys,

Walt has one reason for wanting to hear the freq, the other, is that I like to be able to listen to the sweep, to get on freq. instead of watching a screen, which I would use also. I would prefer to have a line out that has a fixed level, this way, once I have found the digital signal, and decoding correctly, I could then turn the AF gain (volume) down, and not have to listen to the digital noise.

I will also look at someway that I can feed the input directly into the radio, either by a home-built rigblaster, or switch.

To all, thanks for your input, it has helped, and today I will be in the radio doing some mods, and improvements.

BTW, To Ken Winterling, sorry to say that I searched my TS-830S user manual, but I could not find any reference to the phone patch mod. If your copy has it, could I please request a scan, and send it to me directly. Thanks. sparc_nzr@... (home e-mail, gmail is for general)

I would like to wish everyone a Happy New Year, may 2007 be a great one, personally, and radio wise.

Regards and Thanks to all.

Kevin, ZL1KFM.

Get Skype and call me for free.

----- Original Message -----
From: n9wb
To: TS-520_820_530_830@yahoogroups.com
Sent: Saturday, December 30, 2006 5:41 AM
Subject: Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

I certainly can understand why he wants to be able to hear the frequency. Any responsible Radio amateur would want to be sure that the frequency is clear before he fired up a digital signal potentially wiping out an on going analog QSO.

Vy 73, Walt N9WB

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

11831. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-29 18:37:57 UTC
From: David King
Topic: 11804 Message: 11831

The latest edition of ARRL's QST has a project article from a guy that built a small audio box to take CW from his 'puter's audio jack into his radio's input. Looks like parts would cost about 10 bucks or so...and there were only about 8 of them. As I recall, he did this 'cause he had an older machine and didn't want to use the USB port but wanted to come out of the headphone jack on his machine into his radio's mike-input. He also made reference to a small freeware program you could download to generate the audio...and when I went to the website with it, there was a companion CW reading program that you could purchase for a minimal amount that would allow you to take the audio from your radio into the mike jack on the computer and have it scroll on your screen.

Looked to me a bit like a very poor man's version of RibBlaster/Rascal, etc....and didn't require using the USB port or a fancy radio input jack.

David King
KE7EKA

james27613 wrote:

> hi,
>
> as posted earlier, you should try the ext speaker jack
> and connect to the pc sound card input.
>
> when using the digital modes your pc and speakers will
> give you the audio.
>
> when you're done with digital then you just unplug the
> ext speaker connection and your ready for cw ssb.
> This is an original Plug and Play !
>
> I have built and used the rascal (original) and it worked fine,
> and also have the Signalink sl1+ from tigertronics.
>
> the kenwood phone patch pc-1 or pc-1a have also been used to
> interface the radio to the pc.
>
> be sure to use the ALC 'mod' that is in the files section to
> reduce your power out instead of the mic gain control.
> The 'mod' in an external one and helps keep your signal clean.
>
> 73 james ke4drn
>
>

[Non-text portions of this message have been removed]

11832. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 00:20:41 UTC
From: Ken Winterling
Topic: 11804 Message: 11832

Kevin,

I extracted the TS-830S phone patch mod info and sent it as a JPG attachment. I included your personal e-mail address as a Cc on this message since the reflector will strip the attachment.

If anybody else needs the attachment just let me know.

Ken, WA2LBI

On 12/29/06, Kevin & Natalia <sparcnz@...> wrote:
> Hi Guys,
>
> BTW, To Ken Winterling, sorry to say that I searched my TS-830S user manual, but I could not find any reference to the phone patch mod. If your copy has it, could I please request a scan, and send it to me directly. Thanks. sparc_nzr@... (home e-mail, gmail is for general)
>
> Regards and Thanks to all.
>
> Kevin, ZL1KFM.
>

[Non-text portions of this message have been removed]

11833. TS-820S For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 00:43:50 UTC
From: Bill Richarz
Topic: 11833 Message: 11833

Nice TS-820S. Looks good and works good with one
issue.
The rear dial (0-500) does not turn. Have been told
this can be fixed but not mechanically inclined to do
that.

The Digital readout is okay as well as the front
analog dial and all other function switches, etc.
Would like $300 for it plus UPS shipping from
Charlotte, NC 28227. Would prefer Local pickup, but
have original shipping cartons with inner box and
would ship that way.

Also Has the Frequency Calibration cable, extension
feet for the front and a new spare ant. relay that I
will throw in. I'm at (704) 545-9368 if you have
questions.
Thanks for looking,
Bill, N4DH

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

11834. Re: [TS-520_820_530_830] TS-820S For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 01:34:44 UTC
From: Bill Richarz
Topic: 11833 Message: 11834

Sorry, I forgot to mention the TS-820S has the 500Hz
CW filter installed.
tnx,
de Bill, N4DH

--- Bill Richarz <billn4dh@...> wrote:

> Nice TS-820S. Looks good and works good with one
> issue.
> The rear dial (0-500) does not turn. Have been told
> this can be fixed but not mechanically inclined to
> do
> that.
>
> The Digital readout is okay as well as the front
> analog dial and all other function switches, etc.
> Would like $300 for it plus UPS shipping from
> Charlotte, NC 28227. Would prefer Local pickup, but
> have original shipping cartons with inner box and
> would ship that way.
>
> Also Has the Frequency Calibration cable, extension
> feet for the front and a new spare ant. relay that I
> will throw in. I'm at (704) 545-9368 if you have
> questions.
> Thanks for looking,
> Bill, N4DH
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

11835. removing tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 01:12:09 UTC
From: redlegger2
Topic: 11835 Message: 11835

Hello all,

I need to help, Im cleaning up my new (used) TS-830. I was checking it over and noticed that the cap that goes from the top of the final choke to an coil is broke. My question is once I replace this cap how do i remove the final tube with out breaking the cap again. It looks like the cap was broke by trying to remove the finals.

Josh Darkow
KG4UFV

11836. 6 amp fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 01:55:37 UTC
From: Steve
Topic: 11836 Message: 11836

Where can I find a source for 6 amp fuses for my 830s?

Many thanks,
ke1lg

[Non-text portions of this message have been removed]

11837. Re: removing tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 03:08:47 UTC
From: Gordon
Topic: 11835 Message: 11837

Josh,
I remove and reinstall them all the time. The wire that connects to
the tubes is soft and subtle allowing for removal and some bending
without problem. In fact, I have NEVER broken one yet.

73,
Gordon

--- In TS-520_820_530_830@yahoogroups.com, "redlegger2"
<redlegger2@...> wrote:
>
> Hello all,
>
> I need to help, Im cleaning up my new (used) TS-830. I was
> checking it over and noticed that the cap that goes from the top of
> the final choke to an coil is broke. My question is once I replace
> this cap how do i remove the final tube with out breaking the cap
> again. It looks like the cap was broke by trying to remove the finals.
>
> Josh Darkow
> KG4UFV
>

11838. 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 03:47:57 UTC
From: Michael Bellis
Topic: 11838 Message: 11838

Thanks for the responce on this subject from John Harp, Ron(G8URU) and Kevin(VK4AKU).
Unfortunately, I am more confused than ever. My Kenwood instruction manual (in English) that came with the Singapore purchased radio, cleary speaks of using the 830s directly from an 13.8 vdc source when fitted with the optional DS-2 dc to dc converter, no mention of inverters or any other apparatus, just the DS-2 fitted directly to the back of the radio via the 'blind plate' located on the back of the radio. Also has a diagram of a vehicle with the 830s mounted inside detailing properly sized wiring connections to the battery.
I am surprised that this is the first anyone has apparently heard of the DS-2, or directly using 12 vdc to power the 830s. Hope someone can give me futher info. or conversely perhaps I should scan the pages from the Kenwood manual and post them.
73,
Michael

11839. High Voltage caps

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 05:59:26 UTC
From: Martin
Topic: 11838 Message: 11839

Hi All. I lost the message, but someone was saying that they were having a hard time finding the high vokltage caps. Ken, K4EAA now sells a high voltage capacitor kit (among other parts). His site is here: http://www.k4eaa.com/parts.htm

He also may have some other rare parts.

TTYL

--
CUL8R

KBOHAE kb0hae@... Martin Campbell

A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com

"Protect your digital freedom and privacy, eliminate DRM, learn more at http://www.defectivebydesign.org/what_is_drm"

11840. Re: High Voltage caps

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 14:38:50 UTC
From: Clif
Topic: 11838 Message: 11840

Another source for the caps is Digikey. The 150/500 are $5.96 in
onesies, or with a few friends $5.05 in 10's or a lot of friends $3.63
in 50's. Buy 200 and they're down to $2.73. The PN is P7452-ND.

Or if you want the 100uf/500 they start at $4.66 and go down... P7449-ND

Clif

--- In TS-520_820_530_830@yahoogroups.com, Martin <kb0hae@...> wrote:
>
> Hi All. I lost the message, but someone was saying that they were
> having a hard time finding the high vokltage caps. Ken, K4EAA now
sells
> a high voltage capacitor kit (among other parts). His site is here:
> http://www.k4eaa.com/parts.htm
>
> He also may have some other rare parts.
>
> TTYL
>
>
> --
> CUL8R
>
> KBOHAE kb0hae@... Martin Campbell
>
> A Satisfied Kanotix Linux user! To get Kanotix go to: www.kanotix.com
>
> "Protect your digital freedom and privacy, eliminate DRM, learn more at
> http://www.defectivebydesign.org/what_is_drm"
>

11841. Re: [TS-520_820_530_830] 6 amp fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 19:13:39 UTC
From: n9wb
Topic: 11836 Message: 11841

Try Radio Shack, Fry's, Auto parts stores, Ace Hardware, and Truck Stops in the CB area. Also Wall Mart and Mier's automotive area. Be sure to use standard 6 amp NOT Slow Blow.

Walt N9WB

----- Original Message -----
From: Steve
To: TS-520_820_530_830@yahoogroups.com
Sent: Friday, December 29, 2006 8:55 PM
Subject: [TS-520_820_530_830] 6 amp fuses

Where can I find a source for 6 amp fuses for my 830s?

Many thanks,
ke1lg

11842. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 19:27:27 UTC
From: John Harp
Topic: 11838 Message: 11842

Sorry for the confusion Michael, the DS-2 may be a harder to find unit for your radio. It was desdigned originally for the TS-520 and 820 model radios.

I never persued it since I operate TS-830.

I fellit easier to just get an inverter for myself and attach to my battery bank which is loaded by solar panels.

Now Gordon is looking at the possibility of 12 volt substiution tubes for the finals used in these Kenwood tube hybrids as a possible project.

You may have stumbled upon a good new topic for the group. I'm still involved in the transverter project at the moment so I got enough going for me right now.

12 volt alternative for these radios is something I've desired to look at for some years now. I just have not got that far yet, notice I say yet.

The Kenwood DS-2 unit may take a while to find. I'd like tosuggest a favorate searches set up on ebay. That way it will send to your mailbox when one appears on listings.

Down in the groups archives I remember there is a dc-converter you can build to run something like that. You may want to check it out.

Michael Bellis <theloneprospector@...> wrote:
Thanks for the responce on this subject from John Harp, Ron(G8URU) and
Kevin(VK4AKU).
Unfortunately, I am more confused than ever. My Kenwood instruction
manual (in English) that came with the Singapore purchased radio,
cleary speaks of using the 830s directly from an 13.8 vdc source when
fitted with the optional DS-2 dc to dc converter, no mention of
inverters or any other apparatus, just the DS-2 fitted directly to the
back of the radio via the 'blind plate' located on the back of the
radio. Also has a diagram of a vehicle with the 830s mounted inside
detailing properly sized wiring connections to the battery.
I am surprised that this is the first anyone has apparently heard of
the DS-2, or directly using 12 vdc to power the 830s. Hope someone can
give me futher info. or conversely perhaps I should scan the pages
from the Kenwood manual and post them.
73,
Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11843. Re: [TS-520_820_530_830] Re: removing tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 20:18:02 UTC
From: n9wb
Topic: 11835 Message: 11843

If you have a cap stuck on the tube top and need to remove the cap without breaking the metal dome from the tube, Soak it with WD-40, Liquid wrench, or something similar. (no WD-40 posts please) and work it loose. After removal, clean the WD-40 off everything that you are going to reuse with alcohol. Be careful, the alcohol will remove the markings from the tube as will the solvent.

If the metal dome should break from the tube, talk to me before discarding it if you think it is otherwise good. We often can save these.

Vy 73, Walt N9WB

> Hello all,
>
> I need to help, I'm cleaning up my new (used) TS-830. I was
> checking it over and noticed that the cap that goes from the top of
> the final choke to an coil is broke. My question is once I replace
> this cap how do I remove the final tube with out breaking the cap
> again. It looks like the cap was broke by trying to remove the finals.
>
> Josh Darkow
> KG4UFV
>

11844. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 20:33:49 UTC
From: Another Old Codger
Topic: 11838 Message: 11844

I've compared the mains txformer on the TS-820 and the TS-530, the secret in the 13.8V operation of the 520/820 is that there is an extra centre tapped winding on the 520/820 which is connected to the connection board which is used with the DS-1A DC/DC converter. The multiway power plug is used to adapt the internal wiring for DC operation, part of which connects the heaters to the battery via the HTR switch. DS-1A is obviously an inverter board. To operate the 530/830 on 13.8V, the best way would be to feed the heaters direct from the battery and power the rest via a 12V to 110/230V inverter, 150 to 200watt should be OK.

Ron
----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 30, 2006 7:27 PM
Subject: Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Sorry for the confusion Michael, the DS-2 may be a harder to find unit for your radio. It was desdigned originally for the TS-520 and 820 model radios.

I never persued it since I operate TS-830.

I fellit easier to just get an inverter for myself and attach to my battery bank which is loaded by solar panels.

Now Gordon is looking at the possibility of 12 volt substiution tubes for the finals used in these Kenwood tube hybrids as a possible project.

You may have stumbled upon a good new topic for the group. I'm still involved in the transverter project at the moment so I got enough going for me right now.

12 volt alternative for these radios is something I've desired to look at for some years now. I just have not got that far yet, notice I say yet.

The Kenwood DS-2 unit may take a while to find. I'd like tosuggest a favorate searches set up on ebay. That way it will send to your mailbox when one appears on listings.

Down in the groups archives I remember there is a dc-converter you can build to run something like that. You may want to check it out.

Michael Bellis <theloneprospector@...> wrote:
Thanks for the responce on this subject from John Harp,
Ron(G8URU) and
Kevin(VK4AKU).
Unfortunately, I am more confused than ever. My Kenwood instruction manual (in English) that came with the Singapore purchased radio, cleary speaks of using the 830s directly from an 13.8 vdc source when fitted with the optional DS-2 dc to dc converter, no mention of inverters or any other apparatus, just the DS-2 fitted directly to the back of the radio via the 'blind plate' located on the back of the radio. Also has a diagram of a vehicle with the 830s mounted inside detailing properly sized wiring connections to the battery.
I am surprised that this is the first anyone has apparently heard of the DS-2, or directly using 12 vdc to power the 830s. Hope someone can give me futher info. or conversely perhaps I should scan the pages from the Kenwood manual and post them.
73,
Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11845. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 22:46:22 UTC
From: John Harp
Topic: 11838 Message: 11845

Thank you for the response, you just gave me the answer I still had to look up. Looks like I'll just use a power inverter anyway. Any recommendations for the rating to use?

Another Old Codger <clattering.ford@...> wrote: I've compared the mains txformer on the TS-820 and the TS-530, the
secret in the 13.8V operation of the 520/820 is that there is an extra centre tapped winding on the 520/820 which is connected to the connection board which is used with the DS-1A DC/DC converter. The multiway power plug is used to adapt the internal wiring for DC operation, part of which connects the heaters to the battery via the HTR switch. DS-1A is obviously an inverter board. To operate the 530/830 on 13.8V, the best way would be to feed the heaters direct from the battery and power the rest via a 12V to 110/230V inverter, 150 to 200watt should be OK.

Ron
----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 30, 2006 7:27 PM
Subject: Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Sorry for the confusion Michael, the DS-2 may be a harder to find unit for your radio. It was desdigned originally for the TS-520 and 820 model radios.

I never persued it since I operate TS-830.

I fellit easier to just get an inverter for myself and attach to my battery bank which is loaded by solar panels.

Now Gordon is looking at the possibility of 12 volt substiution tubes for the finals used in these Kenwood tube hybrids as a possible project.

You may have stumbled upon a good new topic for the group. I'm still involved in the transverter project at the moment so I got enough going for me right now.

12 volt alternative for these radios is something I've desired to look at for some years now. I just have not got that far yet, notice I say yet.

The Kenwood DS-2 unit may take a while to find. I'd like tosuggest a favorate searches set up on ebay. That way it will send to your mailbox when one appears on listings.

Down in the groups archives I remember there is a dc-converter you
can build to run something like that. You may want to check it out.

Michael Bellis <theloneprospector@...> wrote:
Thanks for the responce on this subject from John Harp,
Ron(G8URU) and
Kevin(VK4AKU).
Unfortunately, I am more confused than ever. My Kenwood instruction
manual (in English) that came with the Singapore purchased radio,
cleary speaks of using the 830s directly from an 13.8 vdc source when
fitted with the optional DS-2 dc to dc converter, no mention of
inverters or any other apparatus, just the DS-2 fitted directly to the
back of the radio via the 'blind plate' located on the back of the
radio. Also has a diagram of a vehicle with the 830s mounted inside
detailing properly sized wiring connections to the battery.
I am surprised that this is the first anyone has apparently heard of
the DS-2, or directly using 12 vdc to power the 830s. Hope someone can
give me futher info. or conversely perhaps I should scan the pages
from the Kenwood manual and post them.
73,
Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11846. Re: 6 amp fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 22:47:19 UTC
From: Gordon
Topic: 11836 Message: 11846

any auto Parts store should have them. I use AGC-6 fuses.They are
readily available.
They are Fast blow as Walt suggested to use.

Gordon

--- In TS-520_820_530_830@yahoogroups.com, "Steve" <sbhanson@...> wrote:
>
> Where can I find a source for 6 amp fuses for my 830s?
>
> Many thanks,
> ke1lg
>
> [Non-text portions of this message have been removed]
>

11847. Re: [TS-520_820_530_830] Re: removing tubes

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 22:51:14 UTC
From: John Harp
Topic: 11835 Message: 11847

Josh, if there is a parasitic choke on a tube, watch you don't break it. If you see a way to unscrew the other end form a mount I would do so. This relieves the stress on the part.

Recently I found a solder joint was broken and that the parasitic choke was dangling like a hinge at the joint. I still haven't figured out how it kept working like that.

n9wb <n9wb@...> wrote:
If you have a cap stuck on the tube top and need to remove the cap without breaking the metal dome from the tube, Soak it with WD-40, Liquid wrench, or something similar. (no WD-40 posts please) and work it loose. After removal, clean the WD-40 off everything that you are going to reuse with alcohol. Be careful, the alcohol will remove the markings from the tube as will the solvent.

If the metal dome should break from the tube, talk to me before discarding it if you think it is otherwise good. We often can save these.

Vy 73, Walt N9WB

> Hello all,
>
> I need to help, I'm cleaning up my new (used) TS-830. I was
> checking it over and noticed that the cap that goes from the top of
> the final choke to an coil is broke. My question is once I replace
> this cap how do I remove the final tube with out breaking the cap
> again. It looks like the cap was broke by trying to remove the finals.
>
> Josh Darkow
> KG4UFV
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11848. Re: [TS-520_820_530_830] 6 amp fuses

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 22:54:05 UTC
From: John Harp
Topic: 11836 Message: 11848

Steve, I just use a standard 6 amp fuse from radio shack on my 830. Just don't use slow blow fuses.

If you blew a fuse find out why the fuse blew. It may save you more problems down the road.

Steve <sbhanson@...> wrote:
Where can I find a source for 6 amp fuses for my 830s?

Many thanks,
ke1lg

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11849. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:02:32 UTC
From: John Harp
Topic: 11804 Message: 11849

Did you use the phone patch for connection to PC? That would be a nice way to go.

james27613 <james27613@...> wrote: hi,

as posted earlier, you should try the ext speaker jack
and connect to the pc sound card input.

when using the digital modes your pc and speakers will
give you the audio.

when you're done with digital then you just unplug the
ext speaker connection and your ready for cw ssb.
This is an original Plug and Play !

I have built and used the rascal (original) and it worked fine,
and also have the Signalink sl1+ from tigertronics.

the kenwood phone patch pc-1 or pc-1a have also been used to
interface the radio to the pc.

be sure to use the ALC 'mod' that is in the files section to
reduce your power out instead of the mic gain control.
The 'mod' in an external one and helps keep your signal clean.

73 james ke4drn

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11850. Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:10:45 UTC
From: John Harp
Topic: 11758 Message: 11850

I thank you for this info Ron. This is handy Aand something I was gonna ask around.

Just for the sake of knowing, why would the filaments be wired separately? Efficiency and all that. Is there an alternator noise problem? I like what you brought to light here. I just needed to know the details if you wouldn't mind.

Another Old Codger <clattering.ford@...> wrote:
On the 520 and 820, when the inverter board is fitted, the multi-way power plug is wired to feed the heaters of the driver and PA from the battery, via the HTR switch. If you were running and 830 or a 530 from an inverter it would be advisable to wire the heaters direct to the battery, via the HTR switch. Trying to power the whole rig from an inverter would be an unnecessary load, and would also be inefficient due to the losses in the inverter.

As the 830/530 has a similar mains transformer as the 820/520, with a split primary, it should be possible to use the same inverter circuit, thus avoiding many of the losses of a separate inverter. Of course your 830/530 would never be quite the same. A good idea as long as you are happy with a dedicated vehicle rig.

Many of the 'narrow boats' used on British canals use a separate 240 volt 50 HZ alternator driven from the engine. Or a separate alternator charging a massive storage battery, or batteries, and a very big inverter, several Kilowatts.

73 Ron G8URU.

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 29, 2006 1:33 AM
Subject: Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Ok well thank you Michael. Currently I'm working toward a solar station that will someday drive my 830. I've considered using the 12 volt version of 6146's and maybe it's modification of the High Voltage to it's tubes. Now for some radios that the transformers were lost this may get them going again. Gordon has recently pondered the idea of a project using those tubes.

I've heard of other in the past taking the radio out in thier RV's and using an inverter from batteries. I've seen it done in tractor trailers too. So my question is what size inverter to drive about 300 watts and how quiet will it be?

Now I've heard of this DS-2 but not a thing more. This may be a hard to find item. There was an accessory available as I recall for the TS-520 to convert 12 volts to something the radio could run.

There's a wiring diagram in the archives as I recall that is for a 520 and some beefing up may make it suitable for operation of an 830 since I believe it may draw a little more than a 520. The 830 is rated at 295 watts while transmitting.

So there's some options I've seen so far. I had a 300/400 watt inverter in my freightliner once, but it didn't have enough gump to run the 830. I used to plug in along the parking lot along with my phone to make calls. The larger inverter would have meant I had to direct wire to the batteries. In my company that waas a definite no no. I've seen what happened when some one did that to his truck at the Atlanta terminal.

Michael Bellis <theloneprospector@...> wrote:
This is only my second post, although I have been watching diligently
for about six weeks --- want to thank John Harp for his kind responce to my inquiry about transverters a couple of weeks ago and praise his refusal to get involved in the recent ruckus. Now to my question. I have an 830s that was bought in Singapore in 1981, it's had the mod to it's main transformer circuitry allowing it to operate on 120v. But I do see some reference to it's main transformer having DC windings unlike US models, thus perhaps allowing it to accept the dc to dc DS-2 power supply. Any knowledge about this would be appreciated and if it's true, anyone with a DS-2 for sale would be and instant friend! won't be able to respond until 12-30-06.
73
Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11851. Re: [TS-520_820_530_830] Re: And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:18:48 UTC
From: John Harp
Topic: 11746 Message: 11851

Ellen, the TS-830 allows an external antenna jack thru the dins on the back of the radio. I forget what pins and could go look it up. I would think the remote jack for 830. I'd imagine the 820 would have the same or similar setup. Just the jacks are a little different. You might look into it.

Ellen R <ellenjoanne2003@...> wrote: Bummer! A separate Receive Antenna jack would be very useful for
bands like 160m, where separate receive antennas are very useful. It
would elminate the hassle of having to use a relay/sequncer to switch
antennas. I'm surpised that the TS-520SE has it and my TS-820
doesn't. But then again, my 820 is an earlier radio, and maybe they
didnt' offer it until the 520S & 820S lines came out.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> I believe it allows the antenna to be fed to another receiver. This
is as opposed to allowing a separate receive antenna as one might
think. See page 16 of your manual.
>
> Vy 73, Walt N9WB
>
> ----- Original Message -----
> From: David S Lund
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Monday, December 25, 2006 5:58 PM
> Subject: [TS-520_820_530_830] And Now for Something Completely
Different - EXT REC ANT jack
>
>
> Can someone explain the operation of the EXT REC ANT jack on the
> 520SE? Does it connect to the receiver's antenna jack? The manual
is
> very brief.
>
> Thanks,
>
> David KB5DRJ
>
>
>
>

>
>
> ----------

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.27/602 - Release Date:
12/25/06
>
>
> [Non-text portions of this message have been removed]
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11852. Re: [TS-520_820_530_830] sidetone

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:24:32 UTC
From: John Harp
Topic: 11817 Message: 11852

Phil, are you using a straight key when you plug in or are you plugging in a keyer?

phil pavey <PPAVEY@...> wrote: Greetings all,

My TS830s has developed an interesting problem. Whenever I put the rig into CW and insert a key (or even an unterminated plug) I get constant cw sidetone - at about 25% of the volume of when I use the CW key on recieve. If I put the rig into transmit it does not cause any output power (but the sidetone goes up to the full volume). If I switch in the "Vox" it does trip the rig into transmit.

I have ensured with a multimeter that I have no problem with the plugs, leads or the key...

any idea's?

As I use the rig 99% for CW I would like to fix this asap!

73 Phil vk3yb

--
No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.29/607 - Release Date: 12/28/2006 12:31 PM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11853. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:14:09 UTC
From: John Harp
Topic: 11711 Message: 11853

Yes and I've used 6146W's in the past in my TS-830 with out a problem too. Now it is said there may or may not be a problem with these tubes. So far I've not had a problem and obviously Ellen, you haven't either.

Ellen R <ellenjoanne2003@...> wrote: I have a set of JAN 6146Ws in my TS-820. They're fine. They
neutralized very well for me, and I get about 110 to 130W out with
them.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, "Yves Remedios" <remedya-
list-yahoo@...> wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@> wrote:
> >
> > Has anyone swapped their 6146B tubes out for the
> > 6883B 12 volt version ?
>
> I have bought 6883B valves on the grounds that this should work but
I
> have not yet had reason to install the valves.
>
> The story going round is that there is a huge supply of 6883B valves
> in the USA so they should be cheap to obtain as 6146B substitutes.
> However, the 6883B valves that have appeared on eBay in the last
three
> months have been offered at similar prices to the 6146B so in these
> circumstances I would rather use the 6146B.
>
> In the last month I have seen a USA eBay seller offering a case of
GE
> 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the
W
> variant but I would have thought its not worth considering 6883B at
> this moment in time.
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11854. Shure 444 FS

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:19:31 UTC
From: jsloss
Topic: 11854 Message: 11854

Shure 444 wired w/ 4 pin connector for 520,530,820,830 series. $40 + postage. Please reply off list. Joe k7mks

[Non-text portions of this message have been removed]

11855. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:31:43 UTC
From: John Harp
Topic: 11711 Message: 11855

Yes I've had full power also. I hear that they are higher dissipation and good for driving an amp too.

Stephen Goldberg <w2imf@...> wrote: Been using late date 6146Ws in my TS-530s and FT-901D for years. Get full
output (100W +) on all bands.
Happy hollidays to all.
Steve W4IMF

----- Original Message -----
From: Yves Remedios
To: TS-520_820_530_830@yahoogroups.com
Sent: Monday, December 25, 2006 1:01 PM
Subject: [TS-520_820_530_830] Re: 6146B / 6883B

--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Has anyone swapped their 6146B tubes out for the
> 6883B 12 volt version ?

I have bought 6883B valves on the grounds that this should work but I have not yet had reason to install the valves.

The story going round is that there is a huge supply of 6883B valves in the USA so they should be cheap to obtain as 6146B substitutes. However, the 6883B valves that have appeared on eBay in the last three months have been offered at similar prices to the 6146B so in these circumstances I would rather use the 6146B.

In the last month I have seen a USA eBay seller offering a case of GE 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the W variant but I would have thought its not worth considering 6883B at this moment in time.

--
Certified Virus Free.
Checked by AVG Free Edition.
Version: 7.5.432 / Virus Database: 268.15.27/602 - Release Date: 12/25/2006 10:19 AM

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11856. Re: [TS-520_820_530_830] Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:35:29 UTC
From: John Harp
Topic: 11804 Message: 11856

Have you considered purchasing a pc-1 phone patch? I just recently got one. I got mine from james but I see them on ebay at times.

Ken Winterling <wa2lbi@...> wrote: Kevin,

I extracted the TS-830S phone patch mod info and sent it as a JPG
attachment. I included your personal e-mail address as a Cc on this
message since the reflector will strip the attachment.

If anybody else needs the attachment just let me know.

Ken, WA2LBI

On 12/29/06, Kevin & Natalia <sparcnz@...> wrote:
> Hi Guys,
>
> BTW, To Ken Winterling, sorry to say that I searched my TS-830S user manual, but I could not find any reference to the phone patch mod. If your copy has it, could I please request a scan, and send it to me directly. Thanks. sparc_nzr@... (home e-mail, gmail is for general)
>
> Regards and Thanks to all.
>
> Kevin, ZL1KFM.
>

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11857. Re: [TS-520_820_530_830] Re: 6146B / 6883B

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-30 23:30:13 UTC
From: John Harp
Topic: 11711 Message: 11857

I haven't yet, but have considered doing so someday to make a radio portable or mobile or even solar powered. Just in consideration at this point.

Be interesting to find out tho.

Yves Remedios <remedya-list-yahoo@...> wrote:
--- In TS-520_820_530_830@yahoogroups.com, "Gordon" <n6wk@...> wrote:
>
> Has anyone swapped their 6146B tubes out for the
> 6883B 12 volt version ?

I have bought 6883B valves on the grounds that this should work but I have not yet had reason to install the valves.

The story going round is that there is a huge supply of 6883B valves in the USA so they should be cheap to obtain as 6146B substitutes. However, the 6883B valves that have appeared on eBay in the last three months have been offered at similar prices to the 6146B so in these circumstances I would rather use the 6146B.

In the last month I have seen a USA eBay seller offering a case of GE 6146W JAN (datestamped 1987) at $24.95/pair. I have never used the W variant but I would have thought its not worth considering 6883B at this moment in time.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11858. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:07:02 UTC
From: Another Old Codger
Topic: 11838 Message: 11858

From experience of small inverters they don't like surges, i.e. going to transmit, The difference is from about 30 watts to about 300 watts. Which indicate that you would need about 500 watts. Of course with the heaters, which take about 5 amps, you standing load would be around 80 to 100 watts. This would have a flywheel effect and stabilise the inverter load. That would be the advantage of not modifying the rig in any way. The inverter load would be around 30 amps, it depends on the efficiency of the inverter, they tend to be more efficient as the load increases.

So the answer is, you will need to have the engine running, have a good and beefy battery, and if possible an alternator with a good low speed output. A nice tight fan belt will be a help!

Or, you can do it the nautical way, fit an additional alternator, a nice big additional leisure/RV style battery and make it independent of the vehicle electrics. The leisure battery can accept deep discharge, and is different construction because it does not need to have a heavy starter current. You can get very big leisure batteries. We have a 90 Ampere Hour in our Trailer/Caravan, the next size up is 120 AH.

I don't know to much about Solar Power, we have a small panel that trickle charges the trailer battery, as far as I can see you can have almost unlimited power, providing you pay for it. <Grin>

Of course my figures are approximate, it depends somewhat on the individual rig.

Good luck, Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 30, 2006 10:46 PM
Subject: Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Thank you for the response, you just gave me the answer I still had to look up. Looks like I'll just use a power inverter anyway. Any recommendations for the rating to use?

11859. Re: [TS-520_820_530_830] And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:10:51 UTC
From: John Harp
Topic: 11746 Message: 11859

I looked at both the instruction manual and the service manual. I see a way to feed a recieved signal thru the transverter jack via pin #8. You could access t/r switching or power via the jacks to if need be.

Graham Ridgeway <m5aav@...> wrote: On Tue, 26 Dec 2006 08:09:24 -0500, "n9wb" <n9wb@...> wrote:

>I believe it allows the antenna to be fed to another receiver. This is as opposed to allowing a separate receive antenna as one might think. See page 16 of your manual.
>

I disagree.....looking at the Service Manual it allows the use of
a separate antenna on receive.

In the normal position it uses the same antenna [the SO239] on Rx and
Tx, switched across to 'ext' it uses the other socket on the Rx path
[and also avoids two sets of relay contacts] - could be very handy if
you have space for, say, a Beverage on 160 for Rx as well as a
suitable vertical for Tx.

73 Graham M5AAV

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11860. Re: [TS-520_820_530_830] TS-830s WANTED: Parts

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:17:54 UTC
From: John Harp
Topic: 11771 Message: 11860

Is it drifting after long term warm up or just within a short while after turning it on?

Rich <n2nmh@...> wrote: HAMs,

+ Looking for a VOX Delay Control Knob, similier to VOX Gain, NB
Level, and Comp Level Control Knobs.

- Would be willing to pay a rea$onable price for a Parts Radio.

+ How can I stabilize the 'Drifty' VFO? Sometimes Cool for DX, but
annoying for Rag Chew.

- Looking to "Re-Commision" this rig by Feb. '07. Looks good into
the Dummy Load. Want to check the allignments and get some spare glass
for the finals. Serial 2060330

73's De Rich, N2NMH

http://www.Norfolk-ARES.org/

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11861. Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:16:57 UTC
From: Another Old Codger
Topic: 11758 Message: 11861

An addition to the early answer, it's simple efficiency. Say the inverter is 80% efficient, and the mains txformer is 90% efficient, that adds up to an extra load on the battery. Wired directly the filaments are 100% efficient, but see my earlier comment re: stabilising the inverter. Alternator whine should be no worse than your car radio, though the 'nutters' in GB fit super large capacitors across the supply, 1, (ONE) Farad!!!! They are the size of a large can of beans.

73 Ron G8URU.

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 30, 2006 11:10 PM
Subject: Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

I thank you for this info Ron. This is handy Aand something I was gonna ask around.

Just for the sake of knowing, why would the filaments be wired separately? Efficiency and all that. Is there an alternator noise problem? I like what you brought to light here. I just needed to know the details if you wouldn't mind.

Another Old Codger <clattering.ford@...> wrote:
On the 520 and 820, when the inverter board is fitted, the multi-way
power plug is wired to feed the heaters of the driver and PA from the battery, via the HTR switch. If you were running and 830 or a 530 from an inverter it would be advisable to wire the heaters direct to the battery, via the HTR switch. Trying to power the whole rig from an inverter would be an unnecessary load, and would also be inefficient due to the losses in the inverter.

As the 830/530 has a similar mains transformer as the 820/520, with a split primary, it should be possible to use the same inverter circuit, thus avoiding many of the losses of a separate inverter. Of course your 830/530 would never be quite the same. A good idea as long as you are happy with a dedicated vehicle rig.

Many of the 'narrow boats' used on British canals use a separate 240 volt 50 HZ alternator driven from the engine. Or a separate alternator charging a massive storage battery, or batteries, and a very big inverter, several Kilowatts.

73 Ron G8URU.

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Friday, December 29, 2006 1:33 AM
Subject: Re: [TS-520_820_530_830] TS-830s on 12v with DS-2

Ok well thank you Michael. Currently I'm working toward a solar station that will someday drive my 830. I've considered using the 12 volt version of 6146's and maybe it's modification of the High Voltage to it's tubes. Now for some radios that the transformers were lost this may get them going again. Gordon has recently pondered the idea of a project using those tubes.

I've heard of other in the past taking the radio out in thier RV's and using an inverter from batteries. I've seen it done in tractor trailers too. So my question is what size inverter to drive about 300 watts and how quiet will it be?

Now I've heard of this DS-2 but not a thing more. This may be a hard to find item. There was an accessory available as I recall for the TS-520 to convert 12 volts to something the radio could run.

There's a wiring diagram in the archives as I recall that is for a 520 and some beefing up may make it suitable for operation of an 830 since I believe it may draw a little more than a 520. The 830 is rated at 295 watts while transmitting.

So there's some options I've seen so far. I had a 300/400 watt inverter in my freightliner once, but it didn't have enough gump to run the 830. I used to plug in along the parking lot along with my phone to make calls. The larger inverter would have meant I had to direct wire to the batteries. In my company that waas a definite no no. I've seen what happened when some one did that to his truck at the Atlanta terminal.

Michael Bellis <theloneprospector@...> wrote:
This is only my second post, although I have been watching
diligently
for about six weeks --- want to thank John Harp for his kind responce to my inquiry about transverters a couple of weeks ago and praise his refusal to get involved in the recent ruckus. Now to my question. I have an 830s that was bought in Singapore in 1981, it's had the mod to it's main transformer circuitry allowing it to operate on 120v. But I do see some reference to it's main transformer having DC windings unlike US models, thus perhaps allowing it to accept the dc to dc DS-2 power supply. Any knowledge about this would be appreciated and if it's true, anyone with a DS-2 for sale would be and instant friend! won't be able to respond until 12-30-06.
73
Michael

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11862. Re: [TS-520_820_530_830] TS-520 SE Mode Switch and S Meter

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:16:03 UTC
From: John Harp
Topic: 11770 Message: 11862

Well you could spray a freeze it on the parts and see what thaws out first. Sometimes that part is drawing excessive current. I'm wondering about the meter circuit tho.

baumbrent <brentbaum5323@...> wrote: I discovered two new problems with my 520SE over the holiday break.

1. The S meter will only run up to S 2.5, even on a signal that is rattling the windows. I suppose it needs to be adjusted. Is there a way to do so without using a signal generator? (It's a 50 mile one way trip to the big city to find someone who has one.) I need to get the S meter working so I can bring the 10 meter section into oscillation and peak the rest of the bands.

2. The audio output drops to about half volume after warm up, or if the radio gets bumped. Sometimes I can cycle the Mode switch and bring it back for a while, but it soon drops out again. Something is probably loose and/or reacting thermally. Any ideas before I begin chasing electrons through the schematics?

By the way I had a quick QSO from Northern Utah with N5PYJ in Texas at about 1600 MST yesterday. He was running an 830S at about 85 watts. Arm chair copy through the QRN.

Thanks all, and happy new year.
K7MEI, Brent

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11863. VFO-230 For Sale

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:27:38 UTC
From: Gordon
Topic: 11863 Message: 11863

I have a Great working VFO-230 for sale. It has some scratches on the case where it rubbed against other gear, but it Works 100 %.
It comes with the Original Cable but No manual. I can provide a Copy of the manual if needed.
I am asking $ 300.00 plus shipping Shipping should be about $20.00 anywhere in the US insured via UPS!

Please contact me OFF list n6wk at n6wk.com

73,
Gordon

11864. Re: [TS-520_820_530_830] seasons greetings from a new member

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:23:07 UTC
From: John Harp
Topic: 11803 Message: 11864

Ya know that's true. Board swapping, into the rotation and someone else looks at it. Then throws it away. Not much to work on these days in the newer stuff. Why do they need a tech for this? No wonder there's no tech jobs no more.

Another Old Codger <clattering.ford@...> wrote: Hello Alan,

When I received my TS-530 it needed alignment, I followed the
alignment procedure in the operating manual, using the Cal signal, it
made a vast improvement. When I received the Technical Manual the same
procedure required a large amount of test equipment, which I thought
was rather humorous.

Read the Operating Manual till you are word perfect, buy the few
simple tools needed and do it your self. That's why you are an
Amateur.

The TS series are not 'black boxes' that need the professionals!! and
any way most of them are board changers, I know, I used to be one
myself in my professional life.

73 Ron G8URU, just over The Border.

----- Original Message -----
From: "mm3hvb" <weealan@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Thursday, December 28, 2006 8:35 PM
Subject: [TS-520_820_530_830] seasons greetings from a new member

Hi
Hope you are are all having a good holiday season,and may i wish you
all a good new year.
Just got hold of a TS520se and hope to have it up and running soon.I
think it just needs re-aligned,tried contacting a few radio shops here
in the UK, but not had any luck yet yet in getting one to do the work.
(they say it`s too old).

bye just now and best wishes to you all from Scotland.

Alan MM3 HVB

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11865. Re: TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:49:12 UTC
From: dug
Topic: 11624 Message: 11865

OK, I'm finally back to the computer. And the XYL did indeed buy
into the FT8797 upgrade. Yay!!!

As to type of antenna: 40 meter dipole. But it doesn't matter. I
said I heard a bell ringing on that issue....perhaps it was the
metal cased ATU sitting on top of the metal cased TS520. Moving on.

The driver tube issue and the complete death of CW reception are
unrelated to that between-the-seat-and-the-microphone issue. I'm
leaning towards them being seperate issues; i.e. a dead 12by7a _and_
a glitch in my mode switch.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Try plugging the antenna directly into the radio. What kind of
antenna are you using?
> Walt N9WB
> ----- Original Message -----
> From: dug
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, December 21, 2006 9:21 AM
> Subject: [TS-520_820_530_830] Re: TS520 drive and reception
issues
>
>
>
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
>
> On the receive issue? I thought so too, and did swap out for a
> different one with the same result. I'll try a third and cross
my
> fingers.
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
> > ----- Original Message -----
> > From: dug
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, December 20, 2006 11:08 PM
> > Subject: [TS-520_820_530_830] TS520 drive and reception issues
> >
> >
> > I have a TS520 that has been a workhorse for years. It's

giving
> me
> > some fits right now. I thought the driver was the culprit but
> after
> > turning it on tonight I'm confused. The symptoms seem to keep
> > shifting on me, so I'm missing something. Help?
> >
> > Over the past month I've noticed that output has been
dropping,
> even
> > with fresh finals that have been neutralized. During tune-up
> > procedure done as from the manual it's been giving less of a
> reading
> > when adjusting drive. This weekend it gave -no- reading. Hence
> my
> > thought of the driver. Now the oddities grow. The SG switch
was
> > returned to proper setting after neutralization, btw.
> >
> > Tonight I decided to use the rig for some listening while my
XYL
> > plays video games. SSB signals are booming in. Then I switch
to
> CW
> > and get silence on all bands. It doesn't seem to be a switch
> > issue. The only thing I can get is some pop when switching the
> VFO
> > knob. No, I can't test against the crystal calibrator. The
> > previous owner disabled it somehow and the rig has always been
> so
> > stable I haven't needed to troubleshoot it.
> >
> > BTW, I've also noticed what seems to be -increased-
sensitivity
> on
> > reception over the same time period. It doesn't seem to matter
> much
> > what setting the antenna tuner is in anymore; I notice only
> about
> > one S-unit drop when on the dummy load. Removing the antenna
> from
> > the ATU does affect things, as does removing the ATU from the
> rig.
> > A different antenna tuner gives the same result. During the
past
> > month the radio has been exposed to some cold weather; into
the
> 30's
> > for a few nights. Could this have damaged some of the 33 year
> old

> > capacitors?
> >
> > When it comes to the innards of my radio I'm not the most
clued
> in,
> > so I realize that I've probably missed something really basic.
> > Especially with the ATU; I hear a bell ringing in the back of
my
> > mind on that.. That in mind, please be slow as to answering
> since
> > my XYL is just about to say yes to a nice new ft897. I can fix
> this
> > rig AFTER that.
> >
> > 73's and thanks in advance,
> > Doug KC4RSL
> >
> >
> >
> >
> >
> >
> > --
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.24/592 - Release
Date:
> 12/18/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.26/594 - Release Date:
12/20/06
>

>
> [Non-text portions of this message have been removed]
>

11866. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:44:03 UTC
From: John Harp
Topic: 11838 Message: 11866

No hey your input has been greatly appreciated. I've got two solar panels that are rated at 15 watts and will add more soon. I can run up to 7 panels on my regulator for a total of 105 watts. I just have two to start out.

Now I have bought three brand new batteries, small but it's just for starting out the new system with. They had each 275 cranking amps. They are like the size of a lawn mower battery, not big enough for a car. They run other things on my station right now. I just got started at this solar thing. The regulator basically just keeps the battery bank maintained. There's hardly a load on it right now.

THe inverter information is what I was out to find next. I had a 300/400 watt inverter before in my freightliner and found it didn't have enough gump for the 830 to work. I was tight for cash so I just plugged in at truck stops with an extension cord to use the 830 when I dropped a line on the log.

Now I am no longer driving and my station is at a fixed location. I'm growing into solar power and was looking for the information you just gave me. Thank You and I'll be using that to determine what to buy for the solar equipment.

Yes you're right I pay for it initially, but that's availability down the road, not to mention the price of learning for going mobile or portable. Others have used them in RV's in the past and that was the information I was looking to get from them.

Thanks again Ron.

John KA3DPW Parkesburg Pennsylvania in the states.

Another Old Codger <clattering.ford@...> wrote:
From experience of small inverters they don't like surges, i.e. going to transmit, The difference is from about 30 watts to about 300 watts. Which indicate that you would need about 500 watts. Of course with the heaters, which take about 5 amps, you standing load would be around 80 to 100 watts. This would have a flywheel effect and stabilise the inverter load. That would be the advantage of not modifying the rig in any way. The inverter load would be around 30 amps, it depends on the efficiency of the inverter, they tend to be more efficient as the load increases.

So the answer is, you will need to have the engine running, have a good and beefy battery, and if possible an alternator with a good low speed output. A nice tight fan belt will be a help!

Or, you can do it the nautical way, fit an additional alternator, a nice big additional leisure/RV style battery and make it independent of the vehicle electrics. The leisure battery can accept deep discharge, and is different construction because it does not need to have a heavy starter current. You can get very big leisure batteries.

We have a 90 Ampere Hour in our Trailer/Caravan, the next size up is 120 AH.

I don't know to much about Solar Power, we have a small panel that trickle charges the trailer battery, as far as I can see you can have almost unlimited power, providing you pay for it. <Grin>

Of course my figures are approximate, it depends somewhat on the individual rig.

Good luck, Ron G8URU

----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Saturday, December 30, 2006 10:46 PM
Subject: Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Thank you for the response, you just gave me the answer I still had to look up. Looks like I'll just use a power inverter anyway. Any recommendations for the rating to use?

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11867. Re: 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 00:57:23 UTC
From: John Wilson
Topic: 11838 Message: 11867

600 watt min with surge of 800 watts or better.
I havent tried the 830 but have run many 50 mhz at 100 watts(swan 250c)
good luck and the big battery is a must.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11868. TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 02:21:08 UTC
From: George Copeland
Topic: 350 Message: 11868

I have lately noticed that I have a hard time getting any ALC reading on 40. I can tune up OK and am heard just fine. Band switch? Also noticed recently that RIT and XIT are non functional. No change with switch on or off. Don't generally use them, but would like to have them working. This is a beautiful radio with great ears and great signal reports. I have had it for about 6 months now and love it. I think the 520 may be jealous.

George W7ZVD

11869. Re: Digital Modes - TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 02:45:27 UTC
From: james27613
Topic: 11804 Message: 11869

hi,

You can turn down the pc speaker volume
and not have to listen to the psk audio.

73 james

> Walt has one reason for wanting to hear the freq, the other, is that
I like to be able to listen to the sweep, to get on freq. instead of
watching a screen, which I would use also.
> I would prefer to have a line out that has a fixed level, this way,
once I have found the digital signal, and decoding correctly, I could
then turn the AF gain (volume) down, and not have to listen to the
digital noise.
>

11870. AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 02:35:04 UTC
From: Ed Scott
Topic: 6938 Message: 11870

Does anyone know where I could possibly pick up a AT-230 antenna tuning unit without having to give up my first born or provide an organ transplant?
Regards,
Ed

11871. Re: [TS-520_820_530_830] Re: 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 03:00:48 UTC
From: John Harp
Topic: 11838 Message: 11871

Thanks. That was about the amount I was guessing. I'll want more batteries obviously.

John Wilson <n0nzp115@...> wrote: 600 watt min with surge of 800 watts or better.
I havent tried the 830 but have run many 50 mhz at 100 watts(swan 250c)
good luck and the big battery is a must.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11872. Re: [TS-520_820_530_830] Re: TS520 drive and reception issues

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 03:09:50 UTC
From: John Harp
Topic: 11624 Message: 11872

Doug, keep an eye on your finals since you had that connector open. High SWR's like that will take a toll on them. Granted the finals in these tube rigs are tough but that is stress that is hard on any output of any radio.

Be glad it happened with the FT897 tho. Imagine the havoc wreaked on your favorate solid state rig. Tubes can go 5:1 tops but 1.8 will shut down solid state gear many times. These tube rigs you can fix more easily. The other stuff may be more difficult.

Good luck with all of it. See you on the air.

dug <clockdug@...> wrote:
OK, I'm finally back to the computer. And the XYL did indeed buy
into the FT8797 upgrade. Yay!!!

As to type of antenna: 40 meter dipole. But it doesn't matter. I
said I heard a bell ringing on that issue....perhaps it was the
metal cased ATU sitting on top of the metal cased TS520. Moving on.

The driver tube issue and the complete death of CW reception are
unrelated to that between-the-seat-and-the-microphone issue. I'm
leaning towards them being seperate issues; i.e. a dead 12by7a _and_
a glitch in my mode switch.

--- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@...> wrote:
>
> Try plugging the antenna directly into the radio. What kind of
antenna are you using?
> Walt N9WB
> ----- Original Message -----
> From: dug
> To: TS-520_820_530_830@yahoogroups.com
> Sent: Thursday, December 21, 2006 9:21 AM
> Subject: [TS-520_820_530_830] Re: TS520 drive and reception
issues
>
>
>
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
>
> On the receive issue? I thought so too, and did swap out for a
> different one with the same result. I'll try a third and cross
my
> fingers.
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:

> >
> > I believe that you have an open ground on a coax jumper. Walt
N9WB
> > ----- Original Message -----
> > From: dug
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Wednesday, December 20, 2006 11:08 PM
> > Subject: [TS-520_820_530_830] TS520 drive and reception issues
> >
> >
> > I have a TS520 that has been a workhorse for years. It's
giving
> me
> > some fits right now. I thought the driver was the culprit but
> after
> > turning it on tonight I'm confused. The symptoms seem to keep
> > shifting on me, so I'm missing something. Help?
> >
> > Over the past month I've noticed that output has been
dropping,
> even
> > with fresh finals that have been neutralized. During tune-up
> > procedure done as from the manual it's been giving less of a
> reading
> > when adjusting drive. This weekend it gave -no- reading. Hence
> my
> > thought of the driver. Now the oddities grow. The SG switch
was
> > returned to proper setting after neutralization, btw.
> >
> > Tonight I decided to use the rig for some listening while my
XYL
> > plays video games. SSB signals are booming in. Then I switch
to
> CW
> > and get silence on all bands. It doesn't seem to be a switch
> > issue. The only thing I can get is some pop when switching the
> VFO
> > knob. No, I can't test against the crystal calibrator. The
> > previous owner disabled it somehow and the rig has always been
> so
> > stable I haven't needed to troubleshoot it.
> >
> > BTW, I've also noticed what seems to be -increased-
sensitivity
> on
> > reception over the same time period. It doesn't seem to matter
> much
> > what setting the antenna tuner is in anymore; I notice only
> about

> > one S-unit drop when on the dummy load. Removing the antenna
> from
> > the ATU does affect things, as does removing the ATU from the
> rig.
> > A different antenna tuner gives the same result. During the
past
> > month the radio has been exposed to some cold weather; into
the
> 30's
> > for a few nights. Could this have damaged some of the 33 year
> old
> > capacitors?
> >
> > When it comes to the innards of my radio I'm not the most
clued
> in,
> > so I realize that I've probably missed something really basic.
> > Especially with the ATU; I hear a bell ringing in the back of
my
> > mind on that.. That in mind, please be slow as to answering
> since
> > my XYL is just about to say yes to a nice new ft897. I can fix
> this
> > rig AFTER that.
> >
> > 73's and thanks in advance,
> > Doug KC4RSL
> >
> >
> >
> >
> >
> >
> > --
> -----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.24/592 - Release
Date:
> 12/18/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

>
>
> --

>
>
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.1.409 / Virus Database: 268.15.26/594 - Release Date:
12/20/06
>
>
> [Non-text portions of this message have been removed]
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11873. Re: [TS-520_820_530_830] TS-830S

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 03:14:58 UTC
From: John Harp
Topic: 350 Message: 11873

Is the ALC a problem just on 40 or is it elsewhere also? Have you tried swapping to a known to be good 12BY7A driver tube?

George Copeland <gdrums@...> wrote: I have lately noticed that I have a hard time getting any ALC reading
on 40. I can tune up OK and am heard just fine. Band switch? Also
noticed recently that RIT and XIT are non functional. No change with
switch on or off. Don't generally use them, but would like to have
them working. This is a beautiful radio with great ears and great
signal reports. I have had it for about 6 months now and love it. I
think the 520 may be jealous.

George W7ZVD

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11874. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 03:29:23 UTC
From: John Harp
Topic: 6938 Message: 11874

Not without considerable studying right now for the operation. But a suggestion, go to ebay and put in to your ebay favorates a search for AT-230 . As one comes around you'll be notified via e-mail.

I hope you have something to use for the meantime. They are around but it takes time to find them.

I stuck to a cheap MFJ tuner for over 20 years, then got a versa tuner V since I had decided I'd go to an amplifier and my antenna then was a G5RV. I found it more easily accepted all types of loads. But I still would like to have the vintage like you. Maybe someday. But do what I described above and bid right and you could have what you want with careful bidding and observation.

You may try the auction houses that sell nothing but ham gear and check swap listings. There was some gear for sale recently posted by Max selling his radio and accessories, you might check out what he has, but I think he was planning to sell it all at once. Check and see what he has to say.

Ed Scott <scottie462000@...> wrote:
Does anyone know where I could possibly pick up a AT-230 antenna tuning
unit without having to give up my first born or provide an organ
transplant?
Regards,
Ed

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11875. Re: And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 04:02:47 UTC
From: Ellen R
Topic: 11746 Message: 11875

Hi John,

I checked both the Users Manual, and the Service Manual. The TS-820
9and probably the 820S) does not have the separate receive antenna
feature the TS-830S has. OH well.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Ellen, the TS-830 allows an external antenna jack thru the dins on
the back of the radio. I forget what pins and could go look it up. I
would think the remote jack for 830. I'd imagine the 820 would have
the same or similar setup. Just the jacks are a little different. You
might look into it.
>
> Ellen R <ellenjoanne2003@...> wrote: Bummer! A separate
Receive Antenna jack would be very useful for
> bands like 160m, where separate receive antennas are very useful.
It
> would elminate the hassle of having to use a relay/sequncer to
switch
> antennas. I'm surpised that the TS-520SE has it and my TS-820
> doesn't. But then again, my 820 is an earlier radio, and maybe they
> didnt' offer it until the 520S & 820S lines came out.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I believe it allows the antenna to be fed to another receiver.
This
> is as opposed to allowing a separate receive antenna as one might
> think. See page 16 of your manual.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: David S Lund
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, December 25, 2006 5:58 PM
> > Subject: [TS-520_820_530_830] And Now for Something Completely
> Different - EXT REC ANT jack

> >
> >
> > Can someone explain the operation of the EXT REC ANT jack on the
> > 520SE? Does it connect to the receiver's antenna jack? The manual
> is
> > very brief.
> >
> > Thanks,
> >
> > David KB5DRJ
> >
> >
> >
> >
> >
> >
> > --
> ----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.27/602 - Release Date:
> 12/25/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> ~~~~~~
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> [Non-text portions of this message have been removed]
>

11876. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 03:43:23 UTC
From: Charles E. Scott
Topic: 6938 Message: 11876

Thanks John, Currently doing a MFJ-969 and have done the ebay thing with very little success. May have to wait until hamvention Dayton in May.
73's & Best of the holidays,
Ed

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11877. TS-520 blew fuse, transformer smell - seeking advice

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 05:11:21 UTC
From: cvflec
Topic: 11877 Message: 11877

I had my 520 hooked to a 80/40 dipole when a couple of weeks ago a storm came through with some electricity in it. I had the rig off but it was connected to the antenna. I was hearing a popping sound in the radio room and came to investigate. I noticed the gear was receiving periodic spark charges so the antenna was removed.

Later that day, I went to power up the radio. I turned the transceiver on but not the heater switch. I had receive and lites for about 5 seconds, then things went dead and a smell developed. The 6 amp fuse blew.

I fortunately found this site and surfed the various questions and answers. I am grateful for the advice on constructing the transformer saver. After removing the DC-DC converter, I powered up the radio. I had receive and the heater seemed to want to operate. Than after a couple of minutes, the 100W light bulb went bright. I have now disconnected everything from the secondary of the transformer. I have also removed the 12.6 volt connection on the side where the transformer inputs are. I still have a bright 100 watt light.

Can someone advise if the worst has happened? Is my transformer smoked?

Thanks, Curtis N7GZ

11878. Re: [TS-520_820_530_830] Re: 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 12:16:56 UTC
From: Dave and Loraine
Topic: 11838 Message: 11878

Hi all and happy new year,

Some moons ago, AC-output inverters were discussed.
It seemed that cheap inverters produce near-square wave and were not kind to our transformers.
Walt, did you go further with your thoughts on a waveform mod for these?

73 Dave F4EYK

11879. FleaBay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 14:36:27 UTC
From: boat.anchor
Topic: 11879 Message: 11879

Found this inrush protecter advertised on FleaBay. Is there any merit
to it.
http://cgi.ebay.com/Soft-start-for-vintage-tube-
gear_W0QQitemZ290065132293QQihZ019QQcategoryZ4675QQrdZ1QQcmdZViewItem
or search for item number 290065132293
thanks
Barry
VA7GEM

11880. Re: FleaBay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 15:29:39 UTC
From: wb7_ssn
Topic: 11879 Message: 11880

--- In TS-520_820_530_830@yahoogroups.com, "boat.anchor"
<boat.anchor@...> wrote:
This is a NTC thermister. They work great on receivers, but should not
be used on transmitters. They can be bought for around $1.50 from
Mouser, Digikey, etc. Here is the link to Mouser's page

http://www.mouser.com/search/refine.aspx?Mpc=Thermometrics%2BCurrent%2BLimiters&Mpcn=52703

Go to the Thermonics page for lots of additional information. These
devices work great on receivers, you can see the voltage ramp up and
know that they are helping protect transformers, tubes etc. But, they
run very hot and need to be installed somewhere where they will not be
touching any wires etc. Go to my web page for more information.

http://www.heavymetalradios.com/

Hope this helps.

Best,
DW Holtman
WB7SSN

>
> Found this inrush protecter advertised on FleaBay. Is there any merit
> to it.
> http://cgi.ebay.com/Soft-start-for-vintage-tube-
> gear_W0QQitemZ290065132293QQihZ019QQcategoryZ4675QQrdZ1QQcmdZViewItem
> or search for item number 290065132293
> thanks
> Barry
> VA7GEM
>

11881. Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 15:58:33 UTC
From: mi_magic3
Topic: 11532 Message: 11881

Well I went back thru the tuning procedure and I do get "some" power out. By some I mean about 55 watts on CW (measured with a Bird 43 Watt meter). I'm thinking that the tubes are a bit soft? But the real bad news is that on SSB I get NOTHING. I have tried two different mics that I know are properly wired for this radio. One being the MC-50, and yes the switch is on on the mic! LOL. When I put the radio on VOX and speak, the radio seems to go into transmit mode as I hear relay clicks, but no indication of power output. So I guess that means that the mic circuitry is somewhat working if the radio goes into transmit on VOX, but with no output power, I am guessing something is broke between the mic circuit and the modulation circuits? Not sure if I am saying that right. If anyone can provide a starting point for trouble shooting this problem I would appreciate it. I do have the service manual, a digital voltmeter and an oscilliscope, a freq counter and signal generator, but sure have little trouble shooting experience with radio stuff. My backround is on old computer junk! I used to be a bench technician before my hair went gray and gut started going over the belt... Thanks all in andvance, this is a wonerful group..

Happy New year!!

vy 73 Dave N8HUL

11882. TS820S busted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 16:18:49 UTC
From: Jack
Topic: 11882 Message: 11882

Hi Group.

Hope you all have a very prosperous and healthy new year.
I hope you can help me or at least point me in the right direction.
My 820 has been dropping out and coming back on for the past couple of
weeks and I haven't had time to get at it. jJWell, it finally
dropped out and will not return to life. It has a half life in that
the meter lamps work, the dial lamp works and the leds work. I get
no receive and no transmit. I don't see any scorched components nor
smell anything burnt. I think it's in the power supply so I guess
that's where I should start. I suspect some diodes have gone bad or
a filter cap may have opened up.

ANy suggestions on where to start and where I can get replacement caps
both the 150/500V and the 22/22@450V kind.

thanks in advance and Happy New Year.

Jack

11883. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 16:40:33 UTC
From: John Harp
Topic: 6938 Message: 11883

Ok well that's how I go about mine. I just let the money sit in an ING direct account and when I'm ready I just pul it down.

Then while I'm waiting I watch all the items I am watching and bidding low but carefully. Usually something like that will be a silent key estate. That's when someone really doesn't know much about the item. Thus it is "as is". To fix something like a AT-230 probably wouldn't be to hard, if it broke.

I forgot to tell you check on eham.net and other listings. There are auction places that do just ham radio gear, usually from silent key estates. That way gear gets a second chance before it hits a land fill and one of us wished we had it.

Finally post awant ads. This is one place and ebay another and eham also among others.

They usually appear towards the holidays on ebay, probably that's a good time to sell it to someone who will buy for a ham for a gift. Otherwise they show up at hamfests and swaps.

Something like this would be a years projection. I usually buy in the fall thru the holidays and get it running over the winter. I have two transverters and a clock that are projects for this winter. I can work on them while the 830 is on in the station.

My solar project cut into funds and kept things tight to spend on more expensive items but some unexpected buys showed up this year as well. So it's been good all the way around.

The vintage dream station comes together slowly but is doing a pace I can deal with. It's like building a nice place to live that say this is me. You don't build it all at once. You put it together a little here and some more then and more yet later. For if you did it all at once what would you do with the rest of the time. Some call it putz around. I think of it as a little of you with stories to go with it.

Sometimes I ask if someone could tell me a little about the item. It goes with its story.

Someday hopefully my AT-230 will be the same way.
"Charles E. Scott" <scottie462000@...> wrote:
Thanks John, Currently doing a MFJ-969 and have done the ebay thing with very little success. May have to wait until hamvention Dayton in May.
73's & Best of the holidays,
Ed

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11884. Re: [TS-520_820_530_830] Re: And Now for Something Completely Different - EXT REC ANT jack

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 16:45:40 UTC
From: John Harp
Topic: 11746 Message: 11884

Well I found minelooking at the jacks for the transverter. Remeber I was looking for that info? If you track it it probably would run back to the T/R switching. If nmot I'd make one anyway just from the jacks.

If I do I'll try 5to remember to tell you so you could to if you'd like. I've wanted to do a small beverage on 80 anyway and face it 10 east of north for Europe. But that's a project down the road.

This winter I have enough to finish up. Back to you Ellen. DE KA3DPW K

Ellen R <ellenjoanne2003@...> wrote:
Hi John,

I checked both the Users Manual, and the Service Manual. The TS-820
9and probably the 820S) does not have the separate receive antenna
feature the TS-830S has. OH well.

73,
Ellen - AF9J

--- In TS-520_820_530_830@yahoogroups.com, John Harp <ka3dpw@...>
wrote:
>
> Ellen, the TS-830 allows an external antenna jack thru the dins on
the back of the radio. I forget what pins and could go look it up. I
would think the remote jack for 830. I'd imagine the 820 would have
the same or similar setup. Just the jacks are a little different. You
might look into it.
>
> Ellen R <ellenjoanne2003@...> wrote: Bummer! A separate
Receive Antenna jack would be very useful for
> bands like 160m, where separate receive antennas are very useful.
It
> would elminate the hassle of having to use a relay/sequncer to
switch
> antennas. I'm surpised that the TS-520SE has it and my TS-820
> doesn't. But then again, my 820 is an earlier radio, and maybe they
> didnt' offer it until the 520S & 820S lines came out.
>
> 73,
> Ellen - AF9J
>
> --- In TS-520_820_530_830@yahoogroups.com, "n9wb" <n9wb@> wrote:
> >
> > I believe it allows the antenna to be fed to another receiver.

This
> is as opposed to allowing a separate receive antenna as one might
> think. See page 16 of your manual.
> >
> > Vy 73, Walt N9WB
> >
> > ----- Original Message -----
> > From: David S Lund
> > To: TS-520_820_530_830@yahoogroups.com
> > Sent: Monday, December 25, 2006 5:58 PM
> > Subject: [TS-520_820_530_830] And Now for Something Completely
> Different - EXT REC ANT jack
> >
> >
> > Can someone explain the operation of the EXT REC ANT jack on the
> > 520SE? Does it connect to the receiver's antenna jack? The manual
> is
> > very brief.
> >
> > Thanks,
> >
> > David KB5DRJ
> >
> >
> >
> >
> >
> >
> > --
> ----------
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Free Edition.
> > Version: 7.1.409 / Virus Database: 268.15.27/602 - Release Date:
> 12/25/06
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> ~---~
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

> [Non-text portions of this message have been removed]
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11885. Re: [TS-520_820_530_830] TS-520 blew fuse, transformer smell - seeking advice

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 16:56:50 UTC
From: John Harp
Topic: 11877 Message: 11885

WEll the save the transformer prject tells you if the transformer is still good by the way the light shines, bright or dim. That way you know if the transformer is still good. They are worth checking since they are alot of times not cheap and may take you a while to find.

Now the power supply I would check next. That and do a good cleaning and maintenance if the radio to help eliminate other problems. It may help you to spot things you weren't already aware of.

Try not to turn the radio on anymore than you must at this point as it can make a dfference in something else failing or surviving.

Wait for someone to talk you thru something to fix it. Some things are common problems in these radios. Your at an evaluation point right now. First you already know what the status of the transformer is by the sound of things.

Back to you. John-KA3DPW.

cvflec <cvflec@...> wrote:
I had my 520 hooked to a 80/40 dipole when a couple of weeks ago a storm came through with some electricity in it. I had the rig off but it was connected to the antenna. I was hearing a popping sound in the radio room and came to investigate. I noticed the gear was receiving periodic spark charges so the antenna was removed.

Later that day, I went to power up the radio. I turned the transceiver on but not the heater switch. I had receive and lites for about 5 seconds, then things went dead and a smell developed. The 6 amp fuse blew.

I fortunately found this site and surfed the various questions and answers. I am grateful for the advice on constructing the transformer saver. After removing the DC-DC converter, I powered up the radio. I had receive and the heater seemed to want to operate. Than after a couple of minutes, the 100W light bulb went bright. I have now disconnected everything from the secondary of the transformer. I have also removed the 12.6 volt connection on the side where the transformer inputs are. I still have a bright 100 watt light.

Can someone advise if the worst has happened? Is my transformer smoked?

Thanks, Curtis N7GZ

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11886. Re: [TS-520_820_530_830] Re: 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:00:41 UTC
From: John Harp
Topic: 11838 Message: 11886

Alright then, how do the hams on boats and RV's do it? I've been considering an inverter for battery bank and solar. That's why I asked. I may need to build an LC circuit to change it back to sine or as near as will accomodate.

Dave and Loraine <dave.crooks@...> wrote: Hi all and happy new year,

Some moons ago, AC-output inverters were discussed.
It seemed that cheap inverters produce near-square wave and were not kind to our transformers.
Walt, did you go further with your thoughts on a waveform mod for these?

73 Dave F4EYK

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11887. Re: FleaBay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:20:01 UTC
From: boat.anchor
Topic: 11879 Message: 11887

Thanks very much.
Barry

--- In TS-520_820_530_830@yahoogroups.com, "wb7_ssn" <future212@...>
wrote:
>
> --- In TS-520_820_530_830@yahoogroups.com, "boat.anchor"
> <boat.anchor@> wrote:
> This is a NTC thermister. They work great on receivers, but should
not
> be used on transmitters. >
> Best,
> DW Holtman
> WB7SSN

11888. Re: [TS-520_820_530_830] FleaBay

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:19:03 UTC
From: John Harp
Topic: 11879 Message: 11888

An in rush protector is good in that it when you turn on the item plugged into it it slows down the initial rushof power temporarily. This reduces the stress on components inside the unit.

I have a 120 unit and a 220 unit. Right now my 220 unit is in use on my linear amplifier. It draws 220, I rewired it from 120. It keeps the stress off of parts inside and it keeps the surge current from being larger on a line. For example if I turn my amp on it pulls a big surge and then drops to about 9 amps. That's why I went to a large conductor wire and chanced up to 220. It runs better.

The surge protector is how I turn the amp on to. Thus I can hopefully get a longer life from my amplifier. They're not expensive and for me it saves headaches down the road hopefully.

I kept my 120 and may put it on the 830 too. Why not I already paid for it since I converted my one amp to 220 the other is not working right now. It may help the amp plus it makes a good place to turn on the unit right next to the amps unit, Keep them in one place.

They have a surge button you can reset and an illuminated switch on mine They keep the initial surge on the line down omoentarily by the way they are built switching back just after the surge. So to me they have some plusses.

"boat.anchor" <boat.anchor@...> wrote:
Found this inrush protecter advertised on FleaBay. Is there any merit
to it.
http://cgi.ebay.com/Soft-start-for-vintage-tube-
gear_W0QQitemZ290065132293QQihZ019QQcategoryZ4675QQrdZ1QQcmdZViewItem
or search for item number 290065132293
thanks
Barry
VA7GEM

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11889. Re: [TS-520_820_530_830] Re: I think I broke it!!!!

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:30:49 UTC
From: John Harp
Topic: 11532 Message: 11889

OK Dave,
1) have the tubes been replaced with known good final tubes? This may make it an easy change for you and don't for get the neutralization if you do it.

2) what is your high voltage? Have you looked around the finals. Check the resistors visibly.
and ohm them out. The value looks off there may be a problem.

3) how's the ALC? and the condition of your drive tube 12BY7A?

You may be right there may be something wrong between the mic input and the modulation stages, but try to eliminate the obvious first. This is info someone like Walt or Gordon may need to help you track the problem.

mi_magic3 <mi_magic3@...> wrote:
Well I went back thru the tuning procedure and I do get "some" power out. By some I mean about 55 watts on CW (measured with a Bird 43 Watt meter). I'm thinking that the tubes are a bit soft? But the real bad news is that on SSB I get NOTHING. I have tried two different mics that I know are properly wired for this radio. One being the MC-50, and yes the switch is on on the mic! LOL. When I put the radio on VOX and speak, the radio seems to go into transmit mode as I hear relay clicks, but no indication of power output. So I guess that means that the mic circuitry is somewhat working if the radio goes into transmit on VOX, but with no output power, I am guessing something is broke between the mic circuit and the modulation circuits? Not sure if I am saying that right. If anyone can provide a starting point for trouble shooting this problem I would appreciate it. I do have the service manual, a digital voltmeter and an oscilliscope, a freq counter and signal generator, but sure have little trouble shooting experience with radio stuff. My backround is on old computer junk! I used to be a bench technician before my hair went gray and gut started going over the belt... Thanks all in andvance, this is a wonerful group..

Happy New year!!

vy 73 Dave N8HUL

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11890. Re: [TS-520_820_530_830] TS820S busted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:51:30 UTC
From: John Harp
Topic: 11882 Message: 11890

You could put the unit on the save the transformer circuit and keep the transformer on lie a ballast while you check what's going on inside. Check the trasformer outputs and them easure the power supply outs. This will help you to pinpoint the culprit component. how's the high voltage? Hows the ALC?

Here is info on the caps.
One person recently said check with Ken K4EAA for the needed caps.

Here's what Cliff responded with in an email not long ago.

"Another source for the caps is Digikey. The 150/500 are $5.96 in
onesies, or with a few friends $5.05 in 10's or a lot of friends $3.63
in 50's. Buy 200 and they're down to $2.73. The PN is P7452-ND.

Or if you want the 100uf/500 they start at $4.66 and go down... P7449-ND

Clif"

By the way, don't keep turning them on and running like that. It sometimes makes your problems worse, like if it takes the transformer out. You don't want that headache.

Odds are your right, something in the power supply. It probably wouldn't hurt to change out those caps. They are something that goes in these units I'm told. After all they are about 30 years old.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11891. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:45:11 UTC
From: Another Old Codger
Topic: 11838 Message: 11891

One thing I forgot to say is that there are inverters and there are inverters, some cheap and cheerful, some excellent. Some give little better than a square wave output, which most electronic equipment won't like, and then there are the 'modified sine wave' type which give a near sine wave output. But the quality of that sine wave depends on the inverter manufacturers opinion. So I would suggest that you see your rig running on full load before you buy. Generally speaking, the quality of the inverter output can be judged by listening to your rigs mains transformer, squarer the output, the more noise from the tranny. Frequency stability is a good quality but as the rig is designed to operate from around 48 HZ to 63HZ it shouldn't worry it to much

73 Ron
----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 31, 2006 12:44 AM
Subject: Re: [TS-520_820_530_830] 830s on 12v with the DS-2

No hey your input has been greatly appreciated. I've got two solar panels that are rated at 15 watts and will add more soon. I can run up to 7 panels on my regulator for a total of 105 watts. I just have two to start out.

Now I have bought three brand new batteries, small but it's just for starting out the new system with. They had each 275 cranking amps. They are like the size of a lawn mower battery, not big enough for a car. They run other things on my station right now. I just got started at this solar thing. The regulator basically just keeps the battery bank maintained. There's hardly a load on it right now.

THe inverter information is what I was out to find next. I had a 300/400 watt inverter before in my freightliner and found it didn't have enough gump for the 830 to work. I was tight for cash so I just plugged in at truck stops with an extension cord to use the 830 when I dropped a line on the log.

Now I am no longer driving and my station is at a fixed location. I'm growing into solar power and was looking for the information you just gave me. Thank You and I'll be using that to determine what to buy for the solar equipment.

Yes you're right I pay for it initially, but that's availability down the road, not to mention the price of learning for going mobile or portable. Others have used them in RV's in the past and that was

the information I was looking to get from them.

Thanks again Ron.

John KA3DPW Parkesburg Pennsylvania in the states.

11892. 830s (M) international version -- powered by 12vdc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 18:07:34 UTC
From: Michael Bellis
Topic: 11892 Message: 11892

Well this is my last post on the subject, I have done quite abit of research and can now conclusively say that the 830s radios that were sold overseas did infact have a differant power transformer from US models, including a terminal board inside the rear removable plate to mount and directly solder the DS-2 wires. The DS-2 is not an inverter nor is there one inside the 830. An photo example of the rear of an 830 (M) is posted right here on our own sites photo collection by SU1BDO and clearly shows the power plug labeled 220v/240v/13.8vdc, although it is not fitted with the DS-2. All of this is a rather moot point for most of you, unless like myself you own a (M) version and besides I'm not so sure a DS-2 is easily found anyway. I have seen several radios for sale in Germany and England that have the DS-2 installed and refer to being used on 12v.
The manual states that a strong inrush and continous 15 amps at 13.8vdc is neccessary to power the unit.
73, Michael

11893. Re: [TS-520_820_530_830] TS820S busted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 18:20:25 UTC
From: Bill Scurlock
Topic: 11882 Message: 11893

Jack,

Check the 9v and 3.4v regulator circuits as a first step. These points are identified in the service manual.

73, Bill, K5GCW
----- Original Message -----
From: Jack
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 31, 2006 10:18 AM
Subject: [TS-520_820_530_830] TS820S busted

Hi Group.

Hope you all have a very prosperous and healthy new year.
I hope you can help me or at least point me in the right direction.
My 820 has been dropping out and coming back on for the past couple of weeks and I haven't had time to get at it. jJWell, it finally dropped out and will not return to life. It has a half life in that the meter lamps work, the dial lamp works and the leds work. I get no receive and no transmit. I don't see any scorched components nor smell anything burnt. I think it's in the power supply so I guess that's where I should start. I suspect some diodes have gone bad or a filter cap may have opened up.

ANy suggestions on where to start and where I can get replacement caps both the 150/500V and the 22/22@450V kind.

thanks in advance and Happy New Year.

Jack

[Non-text portions of this message have been removed]

11894. Re: [TS-520_820_530_830] TS820S busted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 18:21:58 UTC
From: N6WK
Topic: 11882 Message: 11894

Jack,
Start by checking EVERY component on the Rectifier Board and the HV board.
I would also recommend cleaning EVERY connector on every board with De-Oxit.
Might want to clean the Band switch with De-Oxit also.

Gordon
N6WK

Jack wrote:

> Hi Group.
>
> Hope you all have a very prosperous and healthy new year.
> I hope you can help me or at least point me in the right direction.
> My 820 has been dropping out and coming back on for the past couple of
> weeks and I haven't had time to get at it. jJWell, it finally
> dropped out and will not return to life. It has a half life in that
> the meter lamps work, the dial lamp works and the leds work. I get
> no receive and no transmit. I don't see any scorched components nor
> smell anything burnt. I think it's in the power supply so I guess
> that's where I should start. I suspect some diodes have gone bad or
> a filter cap may have opened up.
>
> ANy suggestions on where to start and where I can get replacement caps
> both the 150/500V and the 22/22@450V kind.
>
> thanks in advance and Happy New Year.
>
> Jack
>
>

[Non-text portions of this message have been removed]

11895. Re: [TS-520_820_530_830] TS-520 blew fuse, transformer smell - seeking advice

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 18:46:14 UTC
From: n9wb
Topic: 11877 Message: 11895

Curtis:

I would not rush to the conclusion that the transformer is bad yet. Remove all wires from the transformer noting where they go. On top of the rig next to the final section is a terminal board for the DC inverter. I think that you said that you removed any wires going to this terminal except those leading to the transformer. Be sure that this is correct.

By all wires to the transformer, I also mean the wires to the primary. There are two primary windings. They each have taps labeled 0, 100, and 120. Be sure all wires on both of these windings are removed. Label them as to where they go. They must go back to the same winding that they were originally on so label them something like 0 A, 110, A 120 A and 0 B 100 B, 120 B so that you do not get them back on the opposite winding. This is very important. Tape the ends so they do not get into mischief. Now, reconnect the rig to the light bulb tester and note the results. If the light bulb goes bright with the transformer disconnected, the transformer is likely not bad. If it does not, this is not a good sign, but I will have you do some other things before condemning the transformer.

I may not be able to get right back with you for a couple of days. But do the above and write us. I will get back with you with further steps In a couple of days.

Another question, was the first fuse that blew a 6 amp. Was there ever a larger fuse that blew ? Does the transformer seem to smell with the rig disconnected ?

Vy 73, Walt N9WB

----- Original Message -----
From: cvflec
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 31, 2006 12:11 AM
Subject: [TS-520_820_530_830] TS-520 blew fuse, transformer smell - seeking advice

I had my 520 hooked to a 80/40 dipole when a couple of weeks ago a
storm came through with some electricity in it. I had the rig off
but it was connected to the antenna. I was hearing a popping sound
in the radio room and came to investigate. I noticed the gear was
receiving periodic spark charges so the antenna was removed.

Later that day, I went to power up the radio. I turned the
transceiver on but not the heater switch. I had receive and lites
for about 5 seconds, then things went dead and a smell developed.
The 6 amp fuse blew.

I fortunately found this site and surfed the various questions and
answers. I am grateful for the advice on constructing the
transformer saver. After removing the DC-DC converter, I powered up
the radio. I had receive and the heater seemed to want to operate.

Than after a couple of minutes, the 100W light bulb went bright. I have now disconnected everything from the secondary of the transformer. I have also removed the 12.6 volt connection on the side where the transformer inputs are. I still have a bright 100 watt light.

Can someone advise if the worst has happened? Is my transformer smoked?

Thanks, Curtis N7GZ

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.16.0/610 - Release Date: 12/30/06

[Non-text portions of this message have been removed]

11896. Re: [TS-520_820_530_830] TS820S busted

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 18:50:38 UTC
From: n9wb
Topic: 11882 Message: 11896

Be sure that the VFO socket jumper plug on the back is fully in.

Walt N9WB

----- Original Message -----
From: Jack
To: TS-520_820_530_830@yahoogroups.com
Sent: Sunday, December 31, 2006 11:18 AM
Subject: [TS-520_820_530_830] TS820S busted

Hi Group.

Hope you all have a very prosperous and healthy new year.
I hope you can help me or at least point me in the right direction.
My 820 has been dropping out and coming back on for the past couple of
weeks and I haven't had time to get at it. jJWell, it finally
dropped out and will not return to life. It has a half life in that
the meter lamps work, the dial lamp works and the leds work. I get
no receive and no transmit. I don't see any scorched components nor
smell anything burnt. I think it's in the power supply so I guess
that's where I should start. I suspect some diodes have gone bad or
a filter cap may have opened up.

ANy suggestions on where to start and where I can get replacement caps
both the 150/500V and the 22/22@450V kind.

thanks in advance and Happy New Year.

Jack

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.409 / Virus Database: 268.16.0/610 - Release Date: 12/30/06

[Non-text portions of this message have been removed]

11897. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 17:56:16 UTC
From: Another Old Codger
Topic: 6938 Message: 11897

They pop up this side of The Pond in RadCom and Practical Wireless.
They are always in excess of ?100 GBP, they do seem to hold their
price, I suppose it's because it's a good piece of kit suitable for
any rig.

If you are interested I can point you to the various dealers web sites
that they are listed on, but by the time you've paid shipping you are
looking at 300 to 400 dollars. They would be 17.5% cheaper to you as
you don't pay VAT, (Value Added Tax), that's our payment to Europe,
(EU)!!!!!!

Do you need that kidney so much <Grin>.

73 Ron G8URU

----- Original Message -----
From: "Ed Scott" <scottie462000@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 31, 2006 2:35 AM
Subject: [TS-520_820_530_830] AT-230

Does anyone know where I could possibly pick up a AT-230 antenna
tuning
unit without having to give up my first born or provide an organ
transplant?
Regards,
Ed

11898. Re: [TS-520_820_530_830] 830s on 12v with the DS-2

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 23:07:02 UTC
From: John Harp
Topic: 11838 Message: 11898

Ok thanks Ron.

Another Old Codger <clattering.ford@...> wrote: One thing I forgot to say is that there are inverters and there are
inverters, some cheap and cheerful, some excellent. Some give little
better than a square wave output, which most electronic equipment
won't like, and then there are the 'modified sine wave' type which
give a near sine wave output. But the quality of that sine wave
depends on the inverter manufacturers opinion. So I would suggest that
you see your rig running on full load before you buy. Generally
speaking, the quality of the inverter output can be judged by
listening to your rigs mains transformer, squarer the output, the more
noise from the tranny. Frequency stability is a good quality but as
the rig is designed to operate from around 48 HZ to 63HZ it shouldn't
worry it to much

73 Ron
----- Original Message -----
From: "John Harp" <ka3dpw@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 31, 2006 12:44 AM
Subject: Re: [TS-520_820_530_830] 830s on 12v with the DS-2

No hey your input has been greatly appreciated. I've got two solar
panels that are rated at 15 watts and will add more soon. I can run up
to 7 panels on my regulator for a total of 105 watts. I just have two
to start out.

Now I have bought three brand new batteries, small but it's just for
starting out the new system with. They had each 275 cranking amps.
They are like the size of a lawn mower battery, not big enough for a
car. They run other things on my station right now. I just got started
at this solar thing. The regulator basically just keeps the battery
bank maintained. There's hardly a load on it right now.

THe inverter information is what I was out to find next. I had a
300/400 watt inverter before in my freightliner and found it didn't
have enough gump for the 830 to work. I was tight for cash so I just
plugged in at truck stops with an extension cord to use the 830 when I
dropped a line on the log.

Now I am no longer driving and my station is at a fixed location.
I'm growing into solar power and was looking for the information you
just gave me. Thank You and I'll be using that to determine what to
buy for the solar equipment.

Yes you're right I pay for it initially, but that's availability down the road, not to mention the price of learning for going mobile or portable. Others have used them in RV's in the past and that was the information I was looking to get from them.

Thanks again Ron.

John KA3DPW Parkesburg Pennsylvania in the states.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11899. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 23:20:27 UTC
From: John Harp
Topic: 6938 Message: 11899

Well unfortunately that's about what I've seen them go for on ebay in the past at times too. That's why I stick to my versa tuner V. I originally bought it for that new and can tune more odd combinations than the AT-230. I get some odd settings on different antennas and to me it's worth keeping the tuner around. I like it for my linear too.

The AT-230 is ok for tuning center fed doublets at or near resonance, but I use end fed and have tuned some things in the past that really shouldn't load.

I can take my 40 meter vertical for example Ron, and tune it up on 160 to 3:1.

My G5RV's have had some tuning at times that would be difficult for other tuners. I've used ladderline in the past and that is needing a higher impedance like that from a good balun.

So to me I'd like to compliment the station someday, but I wouldn't part from my other tuner because it can get some other match ups you can't obtain with the other tuner.

Another Old Codger <clattering.ford@...> wrote:
They pop up this side of The Pond in RadCom and Practical Wireless.
They are always in excess of £100 GBP, they do seem to hold their
price, I suppose it's because it's a good piece of kit suitable for
any rig.

If you are interested I can point you to the various dealers web sites
that they are listed on, but by the time you've paid shipping you are
looking at 300 to 400 dollars. They would be 17.5% cheaper to you as
you don't pay VAT, (Value Added Tax), that's our payment to Europe,
(EU)!!!!!!

Do you need that kidney so much <Grin>.

73 Ron G8URU

----- Original Message -----
From: "Ed Scott" <scottie462000@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 31, 2006 2:35 AM
Subject: [TS-520_820_530_830] AT-230

Does anyone know where I could possibly pick up a AT-230 antenna
tuning
unit without having to give up my first born or provide an organ
transplant?
Regards,
Ed

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around

http://mail.yahoo.com

[Non-text portions of this message have been removed]

11900. Re: [TS-520_820_530_830] AT-230

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 23:33:06 UTC
From: Graham Ridgeway
Topic: 6938 Message: 11900

On Sun, 31 Dec 2006 15:20:27 -0800 (PST), John Harp <ka3dpw@...>
wrote:

>Well unfortunately that's about what I've seen them go for on ebay in the past at times too. That's why I stick to my versa tuner V. I originally bought it for that new and can tune more odd combinations than the AT-230. I get some odd settings on different antennas and to me it's worth keeping the tuner around. I like it for my linear too.
>
> The AT-230 is ok for tuning center fed doublets at or near resonance, but I use end fed and have tuned some things in the past that really shouldn't load.
>

A very similar [almost a 'chinese copy'] ATU to the AT230 was made by
Leader - from memory the LAC-895 - looks almost the same IIRC, and of
a smilar size.

OK I know it's not 'pure' but there we go.

HNY Everyone

73 Graham M5AAV

11901. Re: [TS-520_820_530_830] 830s (M) international version -- powered by 12vdc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 23:32:20 UTC
From: John Harp
Topic: 11892 Message: 11901

The instruction manual shows this plate you speak of in the rear view diagram. Yet this plate is not on the back of the 830S. Now I do know that there were different transformers in the 820 from the 830 and a transformer from a 530 should work an 830. But I don't know about the extra winding and I hear the dimensions are different for a transformer of the 520 and 820 line.

But thanks to everybody for the info. But a DS-2 isn't something I would persue. Another avenue is needed for my DC conversion.

Michael Bellis <theloneprospector@...> wrote:
Well this is my last post on the subject, I have done quite abit of research and can now conclusively say that the 830s radios that were sold overseas did infact have a differant power transformer from US models, including a terminal board inside the rear removable plate to mount and directly solder the DS-2 wires. The DS-2 is not an inverter nor is there one inside the 830. An photo example of the rear of an 830 (M) is posted right here on our own sites photo collection by SU1BDO and clearly shows the power plug labeled 220v/240v/13.8vdc, although it is not fitted with the DS-2. All of this is a rather moot point for most of you, unless like myself you own a (M) version and besides I'm not so sure a DS-2 is easily found anyway. I have seen several radios for sale in Germany and England that have the DS-2 installed and refer to being used on 12v.
The manual states that a strong inrush and continous 15 amps at 13.8vdc is neccessary to power the unit.
73, Michael

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

11902. Re: [TS-520_820_530_830] 830s (M) international version -- powered by 12vdc

Yahoo group: TS-520_820_530_830 (2006)
Date: 2006-12-31 23:47:47 UTC
From: Another Old Codger
Topic: 11892 Message: 11902

I've just checked the TS-830 Technical Manual and there are two distinct models, Model W, and all the rest. Model W has extra windings on the power transformer, to allow the fitting of the DS2 which is an oscillator board, the same as an inverter but without the transformer. The multi-way plug/socket allows the wiring to be rearranged to allow operation on 13.9V. For all practical arguments this is a DC to DC inverter.

To convert a non Model W would be a difficult job, even if you could get the parts.

Interestingly, the DS-2 is not an option available on the TS-530.

So those who want to operate with 13.8V need to find a TS-830 Model W, preferably with the DS=2 fitted, though the circuit is so simple a reasonable Ham could build one.

73 Ron G8URU.

Old age has it's advantages, I've just not found out what they are :-)

****
----- Original Message -----
From: "Michael Bellis" <theloneprospector@...>
To: <TS-520_820_530_830@yahoogroups.com>
Sent: Sunday, December 31, 2006 6:07 PM
Subject: [TS-520_820_530_830] 830s (M) international version -- powered by 12vdc

Well this is my last post on the subject, I have done quite abit of research and can now conclusively say that the 830s radios that were sold overseas did infact have a differant power transformer from US models, including a terminal board inside the rear removable plate to mount and directly solder the DS-2 wires. The DS-2 is not an inverter nor is there one inside the 830. An photo example of the rear of an 830 (M) is posted right here on our own sites photo collection by SU1BDO and clearly shows the power plug labeled 220v/240v/13.8vdc, although it is not fitted with the DS-2. All of this is a rather moot point for most of you, unless like myself you own a (M) version and besides I'm not so sure a DS-2 is easily found anyway. I have seen several radios for sale in Germany and England that have the DS-2 installed and refer to being used on 12v.
The manual states that a strong inrush and continous 15 amps at 13.8vdc is neccessary to power the unit.
73, Michael